# Reynolds Primary Care 5/23/2021

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# SAFETY DATA SHEET

Creation Date 17-Nov-2015 Revision Date 20-Feb-2018 Revision Number 4

### 1. Identification

Product Name 10% Neutral Buffered Formalin

Cat No.: 22-110-761; 22-110-757; 22-110-758; 22-110-759; 22-110-760;

22-046-333; 22-046-324; 22-046-335; 22-046-327; 22-046-337;

 $22\text{-}046\text{-}329;\ 22\text{-}046\text{-}331;\ 22\text{-}050\text{-}258;\ 22\text{-}050\text{-}136;\ 22\text{-}050\text{-}137;$ 

22-050-138; 22-050-139; 22-050-104; 22-050-105; 22-110-869;

22-110-614; 22-220-685; 22-220-686; 22-220-682; 22-220-683;

22-220-684; 22-050-196; 22-110-664; 22-110-873; 22-045-408; 22-045-400; 22-045-401; 22-045-402; 22-110-689; 22-045-403.

22-045-405, 032-059, 032-060, 005-500, 011-120, 111-123, 245-684,

22-045-405, 032-059, 032-060, 005-500, 011-120, 111-123, 245-664,

245-685, 253-998, 305-510, 316-154, 316-155, 316-156, 426-796,

426-797, 427-098

Synonyms No information available

Recommended Use Laboratory chemicals.

Uses advised against

Not for food, drug, pesticide or biocidal product use

#### Details of the supplier of the safety data sheet

#### Company

Richard Allan Scientific
A Subsidiary of Thermo Fisher Scientific
4481 Campus Drive
Kalamazoo, MI 49008
Tel: (800) 522-7270

#### **Emergency Telephone Number**

Chemtrec US: (800) 424-9300 Chemtrec EU: 001 (202) 483-7616

# 2. Hazard(s) identification

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/irritation Category 2

Serious Eye Damage/Eye Irritation Category 1
Skin Sensitization Category 1

Germ Cell Mutagenicity

Category 1

Category 2

Carcinogenicity

Category 1A

Carcinogenicity Category 1.
Specific target organ toxicity (single exposure) Category 1.

Target Organs - Respiratory system, Central nervous system (CNS).

Specific target organ toxicity - (repeated exposure) Category 2

Target Organs - Kidney, Liver, spleen, Blood.

### Label Elements

## **Signal Word**

Danger

#### **Hazard Statements**

Causes serious eye damage

Causes skin irritation

May cause respiratory irritation

May cause drowsiness or dizziness

May cause an allergic skin reaction

May cause cancer

Suspected of causing genetic defects

Causes damage to organs

May cause damage to organs through prolonged or repeated exposure



### **Precautionary Statements**

#### Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

Do not breathe dust/fume/gas/mist/vapors/spray

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

#### Response

IF exposed: Call a POISON CENTER or doctor/physician

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

#### Skin

IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash before reuse

If skin irritation or rash occurs: Get medical advice/attention

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

# Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

#### Disposal

Dispose of contents/container to an approved waste disposal plant

## Hazards not otherwise classified (HNOC)

WARNING. Cancer - https://www.p65warnings.ca.gov/.

# 3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Water	7732-18-5	94 - 95
Formaldehyde	50-00-0	3.5 - 4
Methyl alcohol	67-56-1	1.2
Sodium phosphate dibasic	7558-79-4	< 1

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Sodium phosphate, monobasic	7558-80-7	< 1

### 4. First-aid measures

General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In

the case of contact with eyes, rinse immediately with plenty of water and seek medical

advice

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical

attention is required.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if

victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate

medical attention is required.

**Ingestion** Do not induce vomiting. Call a physician or Poison Control Center immediately.

Most important symptoms and

effects

Causes eye burns. May cause allergic skin reaction. Breathing difficulties. . Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing: Symptoms of

overexposure may be headache, dizziness, tiredness, nausea and vomiting

Notes to Physician Treat symptomatically

# 5. Fire-fighting measures

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media No information available

**Flash Point** > 93.3 °C / > 199.9 °F

Method - No information available

**Autoignition Temperature** 

**Explosion Limits** 

No information available

Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

#### **Specific Hazards Arising from the Chemical**

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. Risk of ignition.

#### **Hazardous Combustion Products**

Formaldehyde Methanol Carbon monoxide (CO) Carbon dioxide (CO2)

# **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

HealthFlammabilityInstabilityPhysical hazards310N/A

#### 6. Accidental release measures

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safe areas. Keep people away from and upwind of spill/leak.

Environmental Precautions Should not be released into the environment. Do not flush into surface water or sanitary

sewer system. See Section 12 for additional ecological information.

**Methods for Containment and Clean** Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. **Up** 

7. Handling and storage

Handling Use only under a chemical fume hood. Wear personal protective equipment. Do not breathe

vapors or spray mist. Do not get in eyes, on skin, or on clothing. Do not ingest.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

# 8. Exposure controls / personal protection

#### **Exposure Guidelines**

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Formaldehyde	TWA: 0.1 ppm	(Vacated) TWA: 3 ppm	IDLH: 20 ppm	Ceiling: 2 ppm
	STEL: 0.3 ppm	(Vacated) STEL: 10 ppm	TWA: 0.016 ppm	Ceiling: 3 mg/m <sup>3</sup>
		(Vacated) Ceiling: 5 ppm	Ceiling: 0.1 ppm	
		TWA: 0.75 ppm		
		STEL: 2 ppm		
Methyl alcohol	TWA: 200 ppm	(Vacated) TWA: 200 ppm	IDLH: 6000 ppm	TWA: 200 ppm
	STEL: 250 ppm	(Vacated) TWA: 260 mg/m <sup>3</sup>	TWA: 200 ppm	TWA: 260 mg/m <sup>3</sup>
	Skin	(Vacated) STEL: 250 ppm	TWA: 260 mg/m <sup>3</sup>	STEL: 250 ppm
		(Vacated) STEL: 325 mg/m <sup>3</sup>	STEL: 250 ppm	STEL: 310 mg/m <sup>3</sup>
		Skin	STEL: 325 mg/m <sup>3</sup>	_
		TWA: 200 ppm		
		TWA: 260 mg/m <sup>3</sup>		

# <u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures Use only under a chemical fume hood. Ensure adequate ventilation, especially in confined

areas. Ensure that eyewash stations and safety showers are close to the workstation

location.

Personal Protective Equipment

**Eye/face Protection**Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166. Tightly fitting safety goggles.

**Skin and body protection** Long sleeved clothing.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Hygiene Measures**Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and chemical properties

Physical State Liquid

Appearance Clear Colorless

OdorCharacteristic formaldehydeOdor ThresholdNo information available

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.. -

Melting Point/RangeNo data availableBoiling Point/RangeNot applicable

Flash Point > 93.3 °C / > 199.9 °F Evaporation Rate No information available

Flammability (solid,gas) Not applicable

Flammability or explosive limits

Upper No data available
Lower No data available
Vapor Pressure No information available
Vapor Density No information available
Specific Gravity No information available
Solubility miscible

Solubility miscible
Partition coefficient; n-octanol/water No data available

Autoignition Temperature

Decomposition Temperature

Viscosity

No information available
No information available
No information available

Molecular Formula Solution

# 10. Stability and reactivity

Reactive Hazard None known, based on information available

**Stability** Stable under normal conditions.

Conditions to Avoid Incompatible products. Excess heat.

Incompatible Materials Strong oxidizing agents, Strong acids, Strong bases

Hazardous Decomposition Products Formaldehyde, Methanol, Carbon monoxide (CO), Carbon dioxide (CO2)

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

### 11. Toxicological information

**Acute Toxicity** 

Product Information No acute toxicity information is available for this product

Oral LD50Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.Dermal LD50Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.Vapor LC50Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.

**Component Information** 

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	-	Not listed	Not listed
Formaldehyde	500 mg/kg(Rat)	LD50 = 270 mg/kg(Rabbit)	0.578 mg/L (Rat)4 h
Methyl alcohol	Calc. ATE 60 mg/kg LD50 > 1187 – 2769 mg/kg ( Rat )	<b>Calc. ATE 60 mg/kg</b> LD50 = 17100 mg/kg(Rabbit)	Calc. ATE 0.6 mg/L (vapours) or 0.5 mg/L (mists) LC50 = 128.2 mg/L ( Rat ) 4 h
Sodium phosphate dibasic	LD50 = 17 g/kg(Rat)	Not listed	Not listed
Sodium phosphate, monobasic	LD50 = 8290 mg/kg (Rat)	LD50 > 7940 mg/kg (Rabbit)	Not listed

Toxicologically Synergistic No information available

**Products** 

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes, respiratory system and skin

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Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Water	7732-18-5	Not listed				
Formaldehyde	50-00-0	Group 1	Known	A1	X	A2
Methyl alcohol	67-56-1	Not listed				
Sodium phosphate dibasic	7558-79-4	Not listed				
Sodium phosphate, monobasic	7558-80-7	Not listed				

IARC: (International Agency for Research on Cancer) IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program) NTP: (National Toxicity Program) Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human

Carcinogen

ACGIH: (American Conference of Governmental Industrial

Mexico - Occupational Exposure Limits - Carcinogens

Hygienists)

A1 - Known Human Carcinogen

A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

ACGIH: (American Conference of Governmental Industrial Hygienists)

Mexico - Occupational Exposure Limits - Carcinogens

A1 - Confirmed Human Carcinogen A2 - Suspected Human Carcinogen A3 - Confirmed Animal Carcinogen

A4 - Not Classifiable as a Human Carcinogen A5 - Not Suspected as a Human Carcinogen

Mutagenic effects have occurred in humans. **Mutagenic Effects** 

Experiments have shown reproductive toxicity effects on laboratory animals. Reproductive Effects

**Developmental Effects** Developmental effects have occurred in experimental animals.

No information available

**Teratogenicity** Teratogenic effects have occurred in experimental animals.

Respiratory system Central nervous system (CNS) STOT - single exposure Kidney Liver spleen Blood

STOT - repeated exposure

delayed

**Aspiration hazard** 

Symptoms / effects, both acute and Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing:

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

**Endocrine Disruptor Information** No information available

Tumorigenic effects have been reported in experimental animals. The toxicological Other Adverse Effects

properties have not been fully investigated. See actual entry in RTECS for complete

information.

# 12. Ecological information

#### **Ecotoxicity**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment. Contains a substance which is:. Toxic to aquatic organisms.

L	Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Γ	Formaldehyde	Not listed	Leuciscus idus: LC50 = 15	Not listed	EC50 = 20 mg/L 96h
	_		mg/L 96h		EC50 = 2 mg/L 48h
Γ	Methyl alcohol	Not listed	Pimephales promelas: LC50	EC50 = 39000 mg/L 25 min	EC50 > 10000 mg/L 24h
L			> 10000 mg/L 96h	EC50 = 40000 mg/L 15 min	_

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EC50 = 43000 mg/L 5 min

Persistence and Degradability Miscible with water Persistence is unlikely based on information available.

**Bioaccumulation/ Accumulation** No information available.

**Mobility** . Will likely be mobile in the environment due to its water solubility.

Component	log Pow
Formaldehyde	-0.35
Methyl alcohol	-0.74

# 13. Disposal considerations

**Waste Disposal Methods** 

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes	
Formaldehyde - 50-00-0	U122	-	
Methyl alcohol - 67-56-1	U154	-	

# 14. Transport information

DOTNot regulatedTDGNot regulatedIATANot regulatedIMDG/IMONot regulated

# 15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

#### International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Water	Х	Χ	-	231-791-2	-		Χ	-	Х	Χ	Χ
Formaldehyde	Х	Χ	-	200-001-8	1		Χ	Χ	Χ	Χ	Χ
Methyl alcohol	Х	Χ	-	200-659-6	-		Χ	Χ	Х	Х	Χ
Sodium phosphate dibasic	Х	Χ	-	231-448-7	-		Χ	Χ	Χ	Х	Χ
Sodium phosphate, monobasic	Х	Х	-	231-449-2	-		Х	Х	Х	Х	Х

#### Legend:

- X Listed
- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

# U.S. Federal Regulations

TSCA 12(b) Not applicable

# **SARA 313**

ONITY O TO								
Component	CAS-No	Weight %	SARA 313 - Threshold					

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			Values %
Formaldehyde	50-00-0	3.5 - 4	0.1
Methyl alcohol	67-56-1	1.2	1.0

# SARA 311/312 Hazard Categories See section 2 for more information

**CWA (Clean Water Act)** 

Component		CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Formaldehyde		Χ	100 lb	-	-
Sodium phosphate diba	asic	Χ	5000 lb	-	-

#### Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Formaldehyde	X		-
Methyl alcohol	X		-

# **OSHA** Occupational Safety and Health Administration

Component	Specifically Regulated Chemicals	Highly Hazardous Chemicals
Formaldehyde	2 ppm STEL	TQ: 1000 lb
•	0.5 ppm Action Level	
	0.75 ppm TWA	

#### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Formaldehyde	100 lb	100 lb
Methyl alcohol	5000 lb	-
Sodium phosphate dibasic	5000 lb	-

### **California Proposition 65**

This product contains the following proposition 65 chemicals

Component	CAS-No	California Prop. 65	Prop 65 NSRL	Category
Formaldehyde	50-00-0	Carc. (Gaseous only)	40 μg/day	Carcinogen
Methyl alcohol	67-56-1	Developmental	-	Developmental

# U.S. State Right-to-Know

Regulations

Negulations					
Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Water	-	-	X	-	-
Formaldehyde	X	X	X	X	X
Methyl alcohol	X	X	X	X	X
Sodium phosphate dibasic	Х	Х	X	-	-

#### **U.S. Department of Transportation**

Reportable Quantity (RQ): Y
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

### **U.S. Department of Homeland Security**

This product contains the following DHS chemicals:

Component	DHS Chemical Facility Anti-Terrorism Standard
Formaldehyde	11250 lb STQ (solution)
Sodium phosphate, monobasic	2000 lb STQ

Other International Regulations

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Mexico - Grade Slight risk, Grade 1

16. Other information

Prepared By Regulatory Affairs

Thermo Fisher Scientific

Email: EMSDS.RA@thermofisher.com Richard Allan Scientific

A Subsidiary of Thermo Fisher Scientific

Tel: (800) 522-7270

 Creation Date
 17-Nov-2015

 Revision Date
 20-Feb-2018

 Print Date
 20-Feb-2018

Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS).

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

# **End of SDS**

Albuterol Sulfate Inhalation Solution, 0.042% and 0.021%



Revision Date: 02-01-2017

# SAFETY DATA SHEET

# **SECTION 1: IDENTIFICATION**

Nephron Pharmaceuticals Corporation (803) 569-2800

4500 12<sup>th</sup> Street Extension (800) 443-4313 (24 hour contact)

West Columbia, SC 29172-3025

PRODUCT NAME: Albuterol Sulfate Inhalation Solution, 0.042%\* and 0.021%\*

\*potency expressed as albuterol, 1.5mg\*(0.042%) or 0.75mg (0.021%) 3mg albuterol sulfate

CHEMICAL NAME:  $\alpha^1$ -[tert-butylamino)-methyl]-4-hydroxy-m-xylene-  $\alpha$  -  $\alpha$ '-diol sulfate (2:1) (salt)

INN: Salbutamol

SUBSTANCE CLASS: Benzyl alcohol derivative: bronchodilator INTENDED USE: Pharmaceutical product used as bronchodilator

### **SECTION 2: HAZARD(S) IDENTIFICATION**

The following adverse effects have been reported with medicinal use of Albuterol Sulfate Inhalation Solution, 0.042% or 0.021% may accompany unintentional exposure in sufficient dose: fine muscle tremors, muscle cramps, nausea/vomiting, headache, dizziness, nervousness, heartburn, and rapid pulse, palpitations, and increased blood pressure. Extremely rapid heartbeat, seizures, low serum potassium levels, and worsening of the symptoms of pre-existent

cardiovascular (heart and blood vessel) conditions and diabetes are possible.

Hypersensitivity reactions such as hives, skin rash, constriction of the air passages in the lungs, and swelling involving the skin and mucous membranes have been reported.

(See Section 11, "Toxicological Information")

# **SECTION 3: COMPOSITON / INFORMATION ON INGREDIENTS**

NAME: Albuterol Sulfate

CAS#: 51022-70-9

% w/v 0.042% or 0.021% albuterol sulfate

Other Limits: Not Established

NAME: Water for Injection

CAS# 7732-18-5

### **SECTION 4: FIRST AID MEASURES**

If In Eyes: Flush with large amounts of cool water for at least 15 minutes. Obtain medical attention.

If On Skin: Wash affected areas with soap and water after removing contaminated clothing. Obtain medical attention

if contamination is significant and/or a skin reaction is evident.

If Inhaled: If not breathing, give artificial respiration or CPR. If breathing is difficult, give oxygen. Obtain medical

attention and remove to fresh air.

If Ingested: If awake and able to swallow, rinse mouth with water. Never give anything by mouth if unconscious or

having convulsions. Obtain medical attention.

Albuterol Sulfate Inhalation Solution, 0.042% and 0.021%

**SECTION 5: FIRE FIGHTING MEASURES** 

FLASH POINT/TEST METHOD: Unknown.
LEL/UEL: Unknown.

SPECIAL PROPERTIES RELATED TO FIRE HAZARD: None.

STORAGE OR HANDLING CONDITIONS TO BE AVOIDED: Extreme Heat.

EXTINGUISHING MEDIA: Water Spray, Multipurpose Dry Chemical.

FIRE-FIGHTING PROCEDURES: Wear full protective clothing and use self-contained

breathing apparatus (SCBA).

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL RESPONSE PROCEDURES (Liquid, Solid, Gas/Vapor):

Protective equipment may be necessary for spills, (See Section 8, "Exposure Controls / Personal Protection" for quidance).

For small quantities associated with normal therapeutic use, collect spillage and transfer to a closed waste container for disposal. For large or bulk quantities, collect spillage by carefully sweeping or wiping and place in a labeled, sealed container for disposal. Wash spill area (floor or other contact surfaces) with a suitable cleaning solvent, like ethanol.

**SECTION 7: HANDLING AND STORAGE** 

HANDLING: Avoid contact with eyes, skin, and clothing.

STORAGE: Protect from light and excessive heat Store between 36° and 77° F. Discard if solution becomes discolored.

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION** 

ENGINEERING CONTROLS: No special ventilation required.

PERSONAL PROTECTION:

Respiratory: Not required under normal conditions of therapeutic use. See Section 5 " Fire-

Fighting Measures" for respiratory protection in the event of a fire.

Eye: Not required for recommended dosage and administration. Workers should wear adequate eye

protection if splash hazard exists.

Clothing: Adequate protective clothing should be worn to prevent occupational skin contact.

Gloves: When routine handling or spill cleanup may result in skin contact, impermeable (e.g., latex)

gloves should be worn.

Work Practices: Special care should be taken to ensure that contaminated clothing, equipment and work surfaces

are properly cleaned after use. Wash hands and other areas of skin contact thoroughly after

handling this material. Contaminated clothing should be cleaned or disposed of.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES** 

APPEARANCE AND ODOR: Clear, colorless and odorless.

PHYSICAL STATE: Liquid.

MELTING POINT: Not determined.

BOILING POINT: Not determined.

SOLUBILITY/MISCIBILITY (%w/v): Not determined.

**SECTION 10: STABILITY AND REACTIVITY** 

CHEMICAL STABILITY: Stable.

CONDITIONS TO AVOID: Not determined.

INCOMPATIBILITY WITH OTHER MATERIALS: Not determined. No known incompatibilities have been identified

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Albuterol Sulfate Inhalation Solution, 0.042% and 0.021%

for albuterol sulfate, the active ingredient in Albuterol Sulfate Inhalation Solution, 0.042% or 0.021%.

HAZARDOUS DECOMPOSITION PRODUCTS:

Hazardous decomposition products have not been determined. Thermal decomposition products of albuterol sulfate, the active ingredient, include toxic and/or corrosive oxides of nitrogen.

# SECTION 11: TOXICOLOGICAL INFORMATION

THE RISK OF HEALTH HAZARDS MAY BE REDUCED WHEN ALBUTEROL SULFATE INHALATION SOLUTION, 0.5 IS HANDLED IN UNIT DOSAGE FORM.

PHARMACOLOGICAL ACTIVITY: The active component is albuterol sulfate. Albuterol sulfate is a β<sub>2</sub>-adrenergic

bronchodilator used for the therapeutic effect of bronchial smooth muscle relaxation. This product is used for the prevention and relief of bronchospasm in patients with reversible obstructive airway disease (asthma) and for acute

attacks of bronchospasm.

OCCUPATIONAL EXPOSURE LIMITS: For albuterol sulfate, the estimated safe working level is an eight-hour

time-weighted average (TWA) of 0.010mg/m3 or 10 mcg/m<sup>3</sup>.

ACUTE TOXICITY: Overexposure to albuterol sulfate in the occupational setting may result in the

same adverse effects which have been observed when albuterol sulfate is used medically. (See "Repeat Dose Toxicity" and "Clinical Safety", below). Albuterol sulfate may be absorbed following ingestion, inhalation, and to a limited extent,

through the skin.

REPEAT DOSE TOXICITY: When used medically the following adverse effects have been reported: fine

muscle tremors (especially the hands), muscle cramps, nausea or vomiting, headache, vertigo (dizziness), nervousness, heartburn, and rapid pulse, palpitations, and increased blood pressure. Hypersensitivity reactions (ranging from mild to life-threatening), such as urticaria (hives), skin rash, bronchospasm (constriction of the air passages in the lungs), and angioedema (swelling involving the skin and mucous membranes) have rarely occurred. In addition,

albuterol sulfate may cause significant changes in blood pressure, extremely rapid heartbeat, seizures, low potassium levels, and may exacerbate the symptoms of pre-existent cardiovascular (heart and blood vessel) conditions and

diabetes.

IRRITATION: Albuterol sulfate causes eye irritation; avoid contact with the eyes. Albuterol

sulfate is irritating to the nose and throat.

SENSITIZATION: Rarely, exposure to albuterol sulfate can cause an allergic rash with redness and

itching of the skin. Exposure by inhalation can cause an allergic rash, difficultybreat

hing and swelling of the face and airways.

REPRODUCTIVE EFFECTS: Albuterol sulfate causes birth defects in mice. Rare reports of cleft palate and

limb defects have been received in offspring of patients being treated with albuterol sulfate. There are no adequate and well-controlled studies of the effects of albuterol sulfate in pregnant women. Albuterol sulfate should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus. For recommended dosage and administration, Albuterol Sulfate Inhalation

Solution, 0.042% or

0.021% is classified as "Pregnancy Category C". It is not known

whether this drug is excreted in human milk. A decision should be made whether to discontinue nursing or to discontinue using the drug, taking into account the importance of the drug to the mother. Precautions should be taken to limit the

exposure to Albuterol Sulfate Inhalation Solution, while pregnant or nursing: medical evaluation of exposure and attention to compliance with standard operating procedures and/or other workplace health and safety

directives is advised.

Albuterol Sulfate Inhalation Solution, 0.042% and 0.021%

GENOTOXICITY: There is no evidence that albuterol sulfate is mutagenic (causing changes in

genetic material) or impairs fertility in standard tests.

CARCINOGENICITY: Albuterol sulfate was not carcinogenic in standard tests with mice and hamsters.

Albuterol sulfate causes benign tumors to rats treated daily for 2 years with doses which are much greater than the recommended maximum dose for human

medical use. The relevance of this finding to humans is not known.

CLINICAL SAFETY: Individuals known to be hypersensitive to β-adrenergic agents like albuterol

sulfate should not be exposed. Persons with cardiovascular disorders (including coronary artery disease, heart rhythm abnormalities and high blood pressure), seizure disorders (epilepsy) hyperthyroidism, or diabetes may experience worsening of symptoms from occupational exposure. Also, persons using Albuterol Sulfate Inhalation Solution, or other medications in the same therapeutic class ( $\beta_2$ -adrenergic receptor agonists), or taking monoamine oxidase inhibitors or tricyclic antidepressants, may have increased sensitivity to

the effects of albuterol sulfate in the occupational setting.

### **SECTION 12: ECOLOGICAL INFORMATION**

ENVIRONMENTAL FATE: Albuterol compartmentalizes into the aquatic environment.

ENVIRONMENTAL EFFECTS: Albuterol is not readily biodegradable in water or soil and is unlikely to

bioaccumulate. It has toxicity to receptors in the aqueous environment at levels

greater than 83.2 mg/L.

**ENVIRONMENTAL TEST RESULTS:** 

### **SECTION 13: DISPOSAL CONSIDERATIONS**

STUDY NAME	RESULTS
Water Solubility	24.5% w/v at pH 7
Hydrolysis Rate	Does not hydrolyze
Vapor Pressure	2 x 10 Pascals at 25° C
Dissociation Constant	pKa = 9.14
n-Octanol/Water Partition Coefficient	1.7 x 10 at pH 7
UV/Visible Spectrum	15300 at 225 nm water 1500 at 225 nm in HCl
	2400 at 244 nm in NaOH
Aerobic Biodegradation (soil)	Partial biodegradation in soil 38.7% maximum in clay loam
Aerobic Biodegradation (water)	Not readily biodegradable
Soil Adsorption/Desorption	Low adsorption <25%
Activated sludge respiration inhibition test	>830 mg at 3 hours
Five day bacterial inhibition	No effect at 18.5 mg/L
Acute toxicity to Daphnia	LC <sub>50</sub> = 243 mg at 48 hours No effect
	83.2 mg/L

Albuterol Sulfate Inhalation Solution, 0.042% and 0.021%

**SECTION 14: TRANSPORT INFORMATION** 

Component 1 or Formulation 1: Albuterol Sulfate Inhalation Solution 0.042% or 0.021%

Proper Shipping Name: Pharmaceutical for Interstate Commerce

IATA/ICAO

Proper Shipping Name: Not Regulated

**IMDG** 

Proper Shipping Name: Not Regulated

RQ: None Marine Pollutant: No

SECTION 15: REGULATORY INFORMATION

EC PACKAGING AND LABELING FOR SUPPLY: Not applicable.

OTHER LEGISLATION: Not regulated.

**SECTION 16: OTHER INFORMATION** 

**REVISION DATE: 02-06-2015** 

REVISION DATE: 07-22-2004 SUPERSEDES: 01-23-2003 REVISION DATE: 08-21-2014 SUPERSEDES: 07-22-2004

TO THE BEST OF OUR KNOWLEDGE THE INFORMATION CONTAINED HEREIN IS ACCURATE AS OF THE DATE HEREOF. ANY DETERMINATION AS TO THE SUITABILITY OF THE PRODUCT FOR ANY PARTICULAR PURPOSE, ITS SAFE USE OR DISPOSAL, SHALL BE THE RESPONSIBILITY OF THE USER. THE INFORMATION CONTAINED HEREIN IS IN NO WAY INTENDED TO SUPPLEMENT, MODIFY, OR SUPERSEDE THE INFORMATION PROVIDED IN THE PRODUCT PACKAGE INSERT WITH RESPECT TO THE USE OF THE PRODUCT FOR MEDICAL PURPOSES. PLEASE REFER TO THE PRODUCT PACKAGE INSERT FOR INFORMATION REGARDING THE USE OF THE PRODUCT FOR MEDICAL PURPOSES.



# Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Date of issue: 06/02/2014 Version: 1.0

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture

Trade name : Ammonia Inhalant Solution

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : OTC drug used to treat or prevent fainting

Use of the substance/mixture : For professional use only

#### 1.3. Details of the supplier of the safety data sheet

James Alexander Corporation 845 Route 94 Blairstown NJ 07825

Tel: (908) 362-9266

Note: The CHEMTREC emergency number is to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to JAC at (908) 362-9266.

#### 1.4. Emergency telephone number

Emergency number : Chemtrec (800) 424-9300

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### **GHS-US** classification

Flam. Liq. 2 H225 Skin Corr. 1B H314 Eye Dam. 1 H318 Carc. 1A H350

#### 2.2. Label elements

#### **GHS-US** labelling

Hazard pictograms (GHS-US)



GHS02





GHS05

GH

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H225 - Highly flammable liquid and vapour

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

H350 - May cause cancer

Precautionary statements (GHS-US) : P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking

P233 - Keep container tightly closed

P240 - Ground/bond container and receiving equipment

P241 - Use explosion-proof electrical, lighting, ventilating equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge P260 - Do not breathe dust, fume, gas, mist, spray, vapours

P264 - Wash hands thoroughly after handling

P280 - Wear eye protection, protective clothing, protective gloves

P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable

for breathing

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

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P308+P313 - IF exposed or concerned: Get medical advice/attention P310 - Immediately call a POISON CENTER or doctor/physician

P321 - Specific treatment (see on this label)

P363 - Wash contaminated clothing before reuse

P370+P378 - In case of fire: Use dry chemical powder, alcohol-resistant foam, carbon dioxide

(CO2), water spray, sand, earth for extinction

P403+P235 - Store in a well-ventilated place. Keep cool

P405 - Store locked up

P501 - Dispose of contents/container to comply with applicable local, national and international

regulation.

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS-US)

No data available

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substance

Not applicable

Full text of H-phrases: see section 16

#### 3.2. Mixture

Name	Product identifier	%	GHS-US classification
Ethyl alcohol	(CAS No) 64-17-5	30 - 40	Flam. Liq. 2, H225 Carc. 1A, H350
Ammonia	(CAS No) 7664-41-7	15 - 20	Flam. Gas 2, H221 Compressed gas, H280 Acute Tox. 3 (Inhalation:gas), H331 Skin Corr. 1B, H314

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation

: Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing stops, give artificial respiration. In case of breathing difficulties administer oxygen. by trained personnel. Seek medical attention immediately.

First-aid measures after skin contact

: Immediately flush skin with plenty of water for at least 15 minutes. Remove/Take off immediately all contaminated clothing. Do not rub the skin and eyes after direct contact with the product. Seek medical attention immediately. Wash contaminated clothing before reuse.

First-aid measures after eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing, Immediately get medical attention.

First-aid measures after ingestion

: If the person is fully conscious, make him/her drink water. Never give an unconscious person anything to drink. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. If swallowed, rinse mouth with water (only if the person is conscious).

# 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries

: Causes severe skin burns and eye damage. This material or its emissions may affect the central nervous system and/or aggravate pre-existing disorders.

Symptoms/injuries after inhalation

: May cause cancer by inhalation. Prolonged and repeated inhalation of decomposition products may cause a pulmonary oedema. Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination. Irritating to the respiratory system, may cause throat pain and cough. Difficulty in breathing.

Symptoms/injuries after skin contact

: May cause severe burns.

Symptoms/injuries after eye contact

: Causes serious eye damage. Can cause blindness.

Symptoms/injuries after ingestion

: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. Ingestion may cause nausea, vomiting and diarrhea.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

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# **SECTION 5: Firefighting measures**

#### 5.1. **Extinguishing media**

Suitable extinguishing media : Alcohol resistant foam. Dry powder. Carbon dioxide. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2 Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour.

**Explosion hazard** : May form flammable/explosive vapour-air mixture.

Reactivity : Thermal decomposition generates : Corrosive vapours. Reacts violently with acids. An

exothermic reaction may occur.

#### 5.3 Advice for firefighters

Firefighting instructions Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire-fighting water from entering environment.

Protective equipment for firefighters Do not enter fire area without proper protective equipment, including respiratory protection.

Containers may swell and Burst during a fire due to internal pressure caused by heat. Vapours Other information are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours. Alcohols burn with a pale blue flame which may be extremely hard to see

under normal lighting conditions. Personnel may be able to feel the heat of the fire without seeing flames. Extreme caution must be exercised in fighting alcohol fires.

#### **SECTION 6: Accidental release measures**

#### Personal precautions, protective equipment and emergency procedures

General measures : Eliminate all ignition sources if safe to do so. Use special care to avoid static electric charges. No

naked lights. No smoking. Stop leak if safe to do so. No action shall be taken involving any personal risk or without suitable training. Wear protective clothing. For further information refer to

section 8: Exposure-controls/personal protection.

#### For non-emergency personnel

**Emergency procedures** : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

**Emergency procedures** : Ventilate area.

#### **Environmental precautions**

Methods for cleaning up

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Consult the appropriate authorities about waste

disposal. Ensure all national/local regulations are observed

#### Reference to other sections

See Heading 8. Exposure controls and personal protection.

#### **SECTION 7: Handling and storage**

#### Precautions for safe handling

Additional hazards when processed

Hygiene measures

: Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Personal protective equipment should be selected based upon the conditions under which this product is handled or used. Use personal protective equipment as required. Provide good ventilation in process area to prevent formation of vapour. Do not breathe gas, fumes, vapour or spray. No naked lights. No smoking. Use only non-sparking tools. Never use pressure to empty container. Ground/bond container and receiving equipment. Take care to allow internal pressure to escape from container before releasing closures. Remove closure carefully, internal pressure may be present. Keep closure up to prevent leakage. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when

leaving work.

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. Do not eat, drink or

smoke when using this product.

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#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Use explosion-proof machinery, apparatus, ventilation facilities, tools etc. Ensure the ventilation system is regularly maintained and tested. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits. Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. A washing facility/water for eye and skin cleaning purposes should be present. Comply with applicable regulations.

Storage conditions

Keep only in the original container in a cool well ventilated place. Keep in fireproof place. Keep container tightly closed. Protect containers against physical damage. Detached outside storage is preferable. Inside storage should be in an NFPA approved flammable liquids storage room or cabinet. Store in corrosion-proof area at temperatures below 77 degrees F (25oC). Store away from direct sunlight or other heat sources.

Incompatible materials

: Avoid mixing with acids, most common metals, strong oxidizing agents, brass, zinc, chlorine, aluminum, copper, bronze, mercury, dimethyl sulfate and acetyl chloride.

#### 7.3. Specific end use(s)

No additional information available

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Ammonia (7664-41-7)		
USA ACGIH	ACGIH TWA (ppm)	25 ppm
USA ACGIH	ACGIH STEL (ppm)	35 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	35 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	50 ppm

Ethyl alcohol (64-17-5)		
USA ACGIH	ACGIH STEL (ppm)	1000 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	1900 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm

# 8.2. Exposure controls

Appropriate engineering controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits. Use explosion-proof ventilating equipment.

Personal protective equipment

: Avoid all unnecessary exposure. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to OSHA regulations. For certain operations, additional Personal Protection Equipment (PPE) may be required. Protective goggles. Gloves. Protective clothing.







Hand protection

: Wear protective gloves. rubber gloves. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Eye protection

: Chemical goggles or face shield.

Skin and body protection

: Wear suitable protective clothing. Chemical resistant safety shoes.

Respiratory protection

: Wear a self-contained breathing apparatus and appropriate personal protective equipment (PPE). Suggestions provided in this section for exposure control and specific types of protective equipment are based on readily available information. Users should consult with the specific manufacturer to confirm the performance of their protective equipment. Specific situations may require consultation with industrial hygiene, safety, or engineering professionals. Care must be taken to assure that any respirator chosen is capable of protecting the user from both ammonia and ethyl alcohol vapors.

Other information

: Do not eat, drink or smoke during use.

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#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Clear.
Colour : Red.

Odour : Pungent ammonia odour.

Odour threshold : No data available
pH : No data available
Relative evaporation rate (butyl acetate=1) : No data available
Melting point : No data available
Freezing point : No data available
Boiling point : > 35 °C (> 95 °F)

Flash point : < 10 °C (< 50 °F - Pensky Martens Closed Cup)

Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : No data available

Density : 0.891 (Specific Gravity @ 25 °C)

Solubility Soluble in water. Log Pow : No data available No data available Log Kow Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosive properties No data available : No data available Oxidising properties **Explosive limits** : No data available

#### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Thermal decomposition generates: Corrosive vapours. Reacts violently with acids. An exothermic reaction may occur.

# 10.2. Chemical stability

Not established.

#### 10.3. Possibility of hazardous reactions

Not established.

## 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

# 10.5. Incompatible materials

Avoid mixing with acids, most common metals, strong oxidizing agents, brass, zinc, chlorine, aluminum, copper, bronze, mercury, dimethyl sulfate and acetyl chloride.

# 10.6. Hazardous decomposition products

Thermal decomposition generates: Fume. Carbon monoxide. Carbon dioxide. May release flammable gases. Corrosive vapours. Ammonia. Nitrogen oxides. release of highly flammable gases/vapours hydrogen.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

Acute toxicity : Not classified

(Based on available data, the classification criteria are not met)

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Ammonia (7664-41-7)	
LD50 oral rat	350 mg/kg
LC50 inhalation rat (ppm)	2000 ppm/4h
Ethyl alcohol (64-17-5)	
LC50 inhalation rat (mg/l)	124.7 mg/l (Exposure time: 4 h)
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: Not classified
	(Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified
	(Based on available data, the classification criteria are not met)
Carcinogenicity	: May cause cancer.
Ethyl alcohol (64-17-5)	
IARC group	1 - Carcinogenic to humans
Reproductive toxicity	: Not classified
	(Based on available data, the classification criteria are not met)
Specific target organ toxicity (single exposure)	: Not classified
	(Based on available data, the classification criteria are not met)
Specific target organ toxicity (repeated	: Not classified
exposure)	(Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified
	(Based on available data, the classification criteria are not met)
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	: May cause cancer by inhalation. Prolonged and repeated inhalation of decomposition products may cause a pulmonary oedema. Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination. Irritating to the respiratory system, may cause throat pain and cough. Difficulty in breathing.
Symptoms/injuries after skin contact	: May cause severe burns.
Symptoms/injuries after eye contact	: Causes serious eye damage. Can cause blindness.
Symptoms/injuries after ingestion	: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. Ingestion may cause nausea, vomiting and diarrhea.

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Ammonia (7664-41-7)	
LC50 fishes 1	0.44 mg/l (Exposure time: 96 h - Species: Cyprinus carpio)
EC50 Daphnia 1	25.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	0.26 - 4.6 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)
Ethyl alcohol (64-17-5)	
LC50 fishes 1	12.0 - 16.0 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 Daphnia 1	9268 - 14221 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 Daphnia 2	10800 mg/l (Exposure time: 24 h - Species: Daphnia magna)

#### 12.2. Persistence and degradability

Ammonia Inhalant Solution	
Persistence and degradability	Not established.

#### 12.3. **Bioaccumulative potential**

Ammonia Inhalant Solution	
Bioaccumulative potential	Not established.
Ammonia (7664-41-7)	
Log Pow	-1.14 (at 25 °C)

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Ethyl alcohol (64-17-5)	
Log Pow	-0.32

#### 12.4. **Mobility in soil**

No additional information available

#### Other adverse effects

Other information : Avoid release to the environment.

#### **SECTION 13: Disposal considerations**

#### Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Do not re-use empty

containers. Ensure all national/local regulations are observed. Consult the appropriate authorities

about waste disposal.

Additional information Handle empty containers with care because residual vapours are flammable.

: Avoid release to the environment. Ecology - waste materials

#### **SECTION 14: Transport information**

In accordance with DOT

Transport document description : UN2924 Flammable liquids, corrosive, n.o.s. (Ammonia, Ethanol), 3, II

UN-No.(DOT) : 2924 DOT NA no. UN2924

**DOT Proper Shipping Name** : Flammable liquids, corrosive, n.o.s.

(Ammonia, Ethanol)

Department of Transportation (DOT) Hazard

Classes

Hazard labels (DOT)

8 - Corrosive

: 3 - Flammable liquid





: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

**DOT Symbols** : G - Identifies PSN requiring a technical name

Packing group (DOT) II - Medium Danger

DOT Special Provisions (49 CFR 172.102) IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite

(31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.

T11 - 6 178.274(d)(2) Normal...... 178.275(d)(3)

TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59

F) and 50 C (122 F), respectively.

TP27 - A portable tank having a minimum test pressure of 4 bar (400 kPa) may be used provided the calculated test pressure is 4 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) 150 DOT Packaging Non Bulk (49 CFR 173.xxx) 202 DOT Packaging Bulk (49 CFR 173.xxx) : 243 DOT Quantity Limitations Passenger aircraft/rail : 1 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 5 L

CFR 175.75)

: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a **DOT Vessel Stowage Location** passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this

section is exceeded.

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DOT Vessel Stowage Other : 40 - Stow "clear of living quarters"

**Additional information** 

Other information : No supplementary information available.

**ADR** 

Transport document description : No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

# **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

Ammonia Inhalant Solution	
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	588 lb

Ammonia (7664-41-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on SARA Section 302 (Specific toxic chemical listings) Listed on SARA Section 313 (Specific toxic chemical listings)	
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	100 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	500
SARA Section 313 - Emission Reporting	1.0 % (includes anhydrous Ammonia and aqueous Ammonia from water dissociable Ammonium salts and other sources, 10% of total aqueous Ammonia is reportable under this listing)

#### Ethyl alcohol (64-17-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

# **CANADA**

Ammonia (7664-41-7)		
Listed on the Canadian DSL (Domesti	c Sustances List) inventory.	
WHMIS Classification	Class A - Compressed Gas Class B Division 1 - Flammable Gas Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects Class E - Corrosive Material	

# Ethyl alcohol (64-17-5) Listed on the Canadian DSL (Domestic Sustances List) inventory. WHMIS Classification Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects

# **EU-Regulations**

# Ammonia (7664-41-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

# Ethyl alcohol (64-17-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

# Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

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#### Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

#### 15.2.2. National regulations

# Ammonia (7664-41-7)

Listed on the AICS (the Australian Inventory of Chemical Substances)

Listed on Inventory of Existing Chemical Substances (IECSC)

Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.

Listed on the Korean ECL (Existing Chemical List) inventory.

Listed on New Zealand - Inventory of Chemicals (NZIoC)
Listed on Inventory of Chemicals and Chemical Substances (PICCS)

Poisonous and Deleterious Substances Control Law

Listed on the Canadian Ingredient Disclosure List

#### Ethyl alcohol (64-17-5)

Listed on IARC (International Agency for Research on Cancer)

Listed on the AICS (the Australian Inventory of Chemical Substances)

Listed on Inventory of Existing Chemical Substances (IECSC)
Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.

Listed on the Korean ECL (Existing Chemical List) inventory.

Listed on New Zealand - Inventory of Chemicals (NZIoC)

Listed on Inventory of Chemicals and Chemical Substances (PICCS)

Listed on the Canadian Ingredient Disclosure List

#### 15.3. US State regulations

Ethyl alcohol (64-17-5)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	Yes			

# **SECTION 16: Other information**

Other information : None.

Full text of H-phrases: see section 16:

Acute Tox. 3 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 3	
Carc. 1A	Carcinogenicity, Category 1A	
Compressed gas	Gases under pressure : Compressed gas	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Flam. Gas 2	Flammable gases, Category 2	
Flam. Liq. 2	Flammable liquids Category 2	
Skin Corr. 1B	Skin corrosion/irritation Category 1B	
H221	Flammable gas	
H225	Highly flammable liquid and vapour	
H280	Contains gas under pressure; may explode if heated	
H314	Causes severe skin burns and eye damage	
H318	Causes serious eye damage	
H331	Toxic if inhaled	
H350	May cause cancer	

NFPA health hazard : 3 - Short exposure could cause serious temporary or

residual injury even though prompt medical attention was

given.

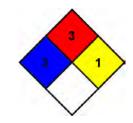
NFPA fire hazard : 3 - Liquids and solids that can be ignited under almost all

ambient conditions.

NFPA reactivity 1 - Normally stable, but can become unstable at elevated

temperatures and pressures or may react with water with

some release of energy, but not violently.



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SDS US (GHS HazCom 2012)

This Material Safety Data Sheet is intended only as a guide to the appropriate precautionary handling of the material by a person trained in, or supervised by a person trained in, the safe handling of chemical materials. James Alexander Corporation (JAC), expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose with respect to the product or information provided herein. All information appearing herein is based upon data obtained from the manufacturer(s) and/or recognized technical sources. While the information is believed to be accurate, JAC makes no representations as to its accuracy or sufficiency. Conditions of use are beyond JAC's control and therefore, users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein and does not relate to its use in combination with any other material or in any other process.

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# **US - OSHA SAFETY DATA SHEET**

11/24/14 Revision Date Version 1

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier** 

Product Name BENADRYL Allergy Dye-Free LIQUI-GELS

Other means of identification

Product Code MCHC-BDRALLLG

C-1261

Synonyms Benadryl dye-free liquid gels

Benadryl liquid gels

Recommended use of the chemical and restrictions on use

**Recommended Use**Temporarily relieves these symptoms due to hay fever or other respiratory allergies: runny

nose; sneezing; itchy, watery eyes; itching of the nose or throat.

Temporarily relieves these symptoms due to the common cold: runny nose, sneezing.

Recommended Restrictions None Known.

Details of the supplier of the safety data sheet

**Supplier Address** 

McNeil Consumer Healthcare, Division of McNeil-PPC, Inc. 7050 Camp Hill Rd. Fort Washington, PA

10934-2299

**Emergency telephone number** 

**Company Phone Number** (215) 273-7000

24 Hour Emergency Phone Number For 24-hour emergency assistance, call the 3E Company at 1 (877)-236-9871

Provide the technician with the following product tracking code: 2277

# 2. HAZARDS IDENTIFICATION

#### Classification

**Health Hazards** 

Not classified

Physical hazards

Not Classified.

**OSHA Regulatory Status** 

Over the counter drugs in their solid final form (e.g. capsules, tablets or pills) are considered exempt under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. However, in an industrial setting where a component's occupational exposure limits may be surpassed, they can be considered hazardous.

# MCHC-BDRALLLG BENADRYL Allergy Dye-Free LIQUI-GELS

**Revision Date** 

#### **Label elements**

#### **Emergency Overview**

#### **Hazard statements**

This material does not meet the criteria for classification.

#### **Hazard Symbol**

None

## Signal Word

None

Appearance Clear, oblong, soft, gelatin

Physical state Soft Gelatin Capsule

Odor Not available.

capsule printed "BENADRYL" on one side

with white ink

#### **Precautionary Statements - Prevention**

Not available

#### **Precautionary Statements - Response**

No specific first aid measures noted.

#### **Precautionary Statements - Storage**

Store at 20 -25 °C (68 - 77 °F). Avoid high humidity and excessive heat. Protect from light.

#### **Precautionary Statements - Disposal**

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Hazards not otherwise classified (HNOC)

Not classified.

# **Other Information**

Not available.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms Benadryl dye-free liquid gels

Benadryl liquid gels.

Chemical Name	CAS No.	Weight-%
Diphenhydramine Hydrochloride USP	147-24-0	1-5
Glycerin	56-81-5	1-15
Polyethylene Glycol	25322-68-3	20-40

# 4. FIRST AID MEASURES

First aid measures

Eye contact In case of eye contact, immediately flush eyes with fresh water for at least 15 minutes while

holding the eyelids open. Remove contact lenses if worn. Get medical attention if irritation

persists.

**Skin Contact** Should skin irritation, allergic reaction, or rash occur, remove contaminated clothing if

required, then physically remove as much of the product as possible. Wash affected area with soap and water, then thoroughly flush the area with water. If irritation persists, seek

medical advice.

**Inhalation** If symptomatic, move to fresh air. Get medical attention if symptoms persist.

# MCHC-BDRALLLG BENADRYL Allergy Dye-Free LIQUI-GELS

**Revision Date** 

Ingestion If symptomatic, seek medical advice. If ingestion of a large amount does occur, call a

poison control center immediately.

Most important symptoms and effects, both acute and delayed

**Symptoms** Diphenhydramine is a potent anticholinergic agent. This activity is responsible for the

side-effects of dry mouth and throat, increased heart rate, pupil dilation, urinary retention,

constipation, and, at high doses, hallucinations or delirium.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Extinguish with water spray, carbon dioxide, dry chemical or material appropriate for the surrounding fire.

Unsuitable extinguishing media None known.

#### Specific hazards arising from the chemical

Not applicable.

### **Explosion data**

Sensitivity to Mechanical Impact None known.

Sensitivity to Static Discharge None known.

#### Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective clothing.

### 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal precautions Wear appropriate personal protective equipment (see Section 8).

**Environmental precautions** 

**Environmental precautions** See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up If dry, vacuum and place into proper container for disposal. If wet, collect or scrape up and

ensure area is thoroughly cleaned.

### 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep only in the original container, Store at 20 - 25 °C (68 - 77 °F). Avoid high humidity

and excessive heat. Protect from light. Keep away from food, drink, and animal

feedingstuffs. Keep out of reach of children.

**Incompatible materials**None known based on information supplied. Strong oxidizing agents.

**Revision Date** 

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters** 

**Biological limit values**No biological limits noted for this ingredient.

**Exposure Guidelines** 

Based on a review of animal and clinical literature, an Occupational Exposure Limit (OEL) of 139 µg/m<sup>3</sup> is recommended as an 8-hour TWA for Diphenhydramine Hydrochloride.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Glycerin	-	TWA: 15 mg/m <sup>3</sup> mist, total	-
56-81-5		particulate	
		TWA: 5 mg/m <sup>3</sup> mist, respirable	
		fraction	
		(vacated) TWA: 10 mg/m <sup>3</sup> mist,	
		total particulate	
		(vacated) TWA: 5 mg/m <sup>3</sup> mist,	
		respirable fraction	

#### Appropriate engineering controls Engineering Controls

The health hazard risks of handling this material are dependent on factors, such as physical form and quantity. Site-specific risk assessments should be conducted to determine the appropriate exposure control measures. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels as low as reasonably achievable.

# Individual protection measures, such as personal protective equipment

Eye/face protection

None required for consumer use. In laboratory, medical or industrial settings, safety glasses with side shields are recommended. The use of goggles or full face protection may be required depending on the industrial exposure setting. Contact a health and safety professional for specific information.

Skin and body protection

None required for consumer use. In laboratory, medical or industrial settings, gloves and lab coats are recommended. The use of additional personal protective equipment such as shoe coverings, gauntlets, hood or head coverings may be necessary. Contact a health and safety professional for specific information.

**Hand protection** 

Use protective gloves. None required for consumer use. In laboratory, medical or industrial settings, gloves and lab coats are recommended. The use of additional personal protective equipment such as shoe coverings, gauntlets, hood or head coverings may be necessary. Contact a health and safety professional for specific information.

**Respiratory protection** 

None required for consumer use. Respirators may be required for certain laboratory and manufacturing tasks if engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (where the exposure limits have not been established). Workplace risk assessments should be completed before specifying and implementing respirator usage. All respirators must conform to specifications for efficiency and performance. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 29 CFR 1910.134. Contact a health and safety professional or manufacturer for specific information.

Thermal hazards

Not applicable.

**General Hygiene Considerations** 

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

# MCHC-BDRALLLG BENADRYL Allergy Dye-Free **LIQUI-GELS**

**Revision Date** 

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

**Physical state** Soft Gelatin Capsule

**Appearance** Clear, oblong, soft, gelatin capsule Odor Not available.

printed "BENADRYL" on one side with

white ink

Color **Odor threshold** Not available. Clear

**Property Values** Remarks • Method

На Not available. Melting point/freezing point Not available. Boiling point / boiling range Not available. Flash point Not available. **Evaporation rate** Not available. Flammability (solid, gas) Not available.

Flammability Limit in Air

Upper flammability limit: Not available. Lower flammability limit: Not available. Vapor pressure Not available. Vapor density Not available. **Specific Gravity** Not available. Water solubility Not available. Solubility in other solvents Not available. Partition coefficient Not available. **Autoignition temperature** Not available. **Decomposition temperature** Not available. Kinematic viscosity Not available. **Dynamic viscosity** Not available. **Explosive properties** Not available. Lower explosive limit: Not available. **Upper explosive limit:** Not available. Oxidizing properties Not available.

# 10. STABILITY AND REACTIVITY

#### Reactivity

Stable at normal conditions.

#### **Chemical stability**

Stable.

# **Possibility of Hazardous Reactions**

Hazardous polymerization does not occur.

#### **Conditions to avoid**

Low and elevated temperatures. High humidity and light.

#### **Incompatible materials**

None known based on information supplied. Strong oxidizing agents.

#### **Hazardous Decomposition Products**

Carbon oxides. Silicon oxides. Nitrogen oxides. Sodium oxides.

# MCHC-BDRALLLG BENADRYL Allergy Dye-Free LIQUI-GELS

**Revision Date** 

### 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information No data available

Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation

hazard.

**Eye contact** This product is not expected to be an eye hazard.

**Skin Contact** This product is not expected to be a skin hazard.

Ingestion Unknown.

#### **Acute Effects**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50	Intravenous LD50
Diphenhydramine	= 500 mg/kg (Rat)	= 280 mg/kg (Rat)	-	= 42 mg/kg (Rat)
Hydrochloride USP	= 160 mg/kg (Mouse)			
147-24-0				= 29 mg/kg (Mouse)
Glycerin	= 12600 mg/kg (Rat)	> 10 g/kg (Rabbit)	> 570 mg/m³ (Rat)1 h	-
56-81-5				
Polyethylene Glycol	= 28 g/kg (Rat)	> 20 mL/kg (Rabbit)>	-	
25322-68-3		20 g/kg (Rabbit)		

Acute intravenous lowest observed toxic dose (TDLo) was 5 mg/kg in rats and 1 mg/kg in mice.

### Information on toxicological effects

Symptoms Diphenhydramine is a potent anticholinergic agent. This activity is responsible for the

side-effects of dry mouth and throat, increased heart rate, pupil dilation, urinary retention,

constipation, and, at high doses, hallucinations or delirium.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

SensitizationNot available.Germ cell mutagenicityNot available.CarcinogenicityNot available.Reproductive toxicityNot available.STOT - single exposureNot classified.STOT - repeated exposureNot classified.

**Aspiration hazard** Due to the physical form of the product it is not an aspiration hazard.

#### Numerical measures of toxicity - Not available.

# 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

This product's components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

#### Persistence and degradability

No information available.

#### **Bioaccumulation**

No information available.

## **Mobility**

No information available.

Other adverse effects No information available.

## MCHC-BDRALLLG BENADRYL Allergy Dye-Free **LIQUI-GELS**

**Revision Date** 

## 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Dispose in accordance with applicable federal, state, and local regulations.

Local disposal regulation Dispose in accordance with local regulations.

Hazardous waste code Hazardous waste codes should be determined in accordance with hazardous waste

regulatory authorities

Waste from residue / unused

packaging

Dispose in accordance with applicable regulations.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after

container is emptied.

## 14. TRANSPORT INFORMATION

DOT Not regulated as a hazardous material by DOT.

**IATA** Not regulated as a dangerous good. **IMDG** Not regulated as a dangerous good.

Transport in bulk according to Annex II of MARPOL 73/78 and the

This substance/mixture is not intended to be transported in bulk

**IBC Code** 

## 15. REGULATORY INFORMATION

**International Inventories** 

**TSCA** Does not comply DSL/NDSL Complies **EINECS/ELINCS** Complies Complies **ENCS IECSC** Does not comply **KECL** Does not comply **PICCS** Does not comply **AICS** Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### **US Federal Regulations**

# US OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Over-the-counter drugs in their solid final form (e.g. tablets or pills) are considered exempt under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. However, in an industrial setting where a component's occupational exposure limits may be surpassed, they can be considered hazardous listed.

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

Acute health hazard No **Chronic Health Hazard** No

# MCHC-BDRALLLG BENADRYL Allergy Dye-Free LIQUI-GELS

**Revision Date** 

Fire hazard No Sudden release of pressure hazard No Reactive Hazard No

#### Drug Enforcement Administration (DEA) List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated

#### **DEA Exempt Chemical Mixtures Code Number**

Not regulated

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPS) List

Not regulated

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

## Safe Drinking Water Act (SDWA)

Not regulated

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

#### **US State Regulations**

#### **CA State Regulations**

This product does not contain a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Glycerin	X	X	X
56-81-5			

## **U.S. EPA Label Information**

EPA Pesticide Registration Number Not available

## **16. OTHER INFORMATION**

#### **Revision Date**

**Revision Note** 

Not available.

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 



#### **SAFETY DATA SHEET**

## Section 1. Product And Company Identification

Product Name: CaviCide™

Product Use: Hard surface cleaner and disinfectant

Manufacturer: METREX™ RESEARCH

28210 Wick Rd Romulus, MI 48174

U.S.A.

**Information Phone Number**: 1-800-841-1428 (Customer Service)

Chemical Emergency Phone Number (Chemical Spills, Leaks, Fire, Exposure or Accident only):

CHEMTREC 1-800-424-9300 (in the US) 1-703-527-3887 (Outside the US)

SDS Date Of Preparation/Revision: 3/23/16

## Section 2. Hazards Identification

## GHS / HAZCOM 2012 Classification:

Flammable Liquid Category 3
Eye Irritation Category 2A
Specific Target Organ Toxicity Single Exposure Category 3 (Narcotic effects)

## Warning!





**Hazard Phrases** 

Flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness.

## Prevention:

Keep away from heat, sparks, open flames, hot surfaces – No smoking.

Keep container tightly closed.

Use explosion-proof electrical, ventilating and light equipment.

Take precautionary measures against static discharge.

Avoid breathing vapors.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear eye protection.

## Response:



IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eve irritation persists get medical attention.

In case of fire: Use water spray or fog, alcohol-resistant foam, carbon dioxide or dry chemical to extinguish.

#### Storage

Store in a well ventilated place. Keep cool.

## Disposal

Dispose of contents and container in accordance with local and national regulations.

Other hazards: None

## Section 3. Composition/Information On Ingredients

Component	CAS No.	Amount
Water	7732-18-5	70-80%
Isopropanol	67-63-0	17.2%
Ethylene Glycol Monobutyl Ether (2-	111-76-2	1-5%
Butoxyethanol)		
Diisobutylphenoxyethoxyethyldimethylbenzyl	121-54-0	0.28%
ammonium chloride		

#### Section 4. First Aid Measures

Inhalation: Move to fresh air if effects occur and seek medical attention if effects persist.

**Skin Contact:** Remove contaminated clothing. Wash all affected and exposed areas with soap and water. If skin irritation or redness develops and persists, seek medical attention.

**Eye Contact:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

**Ingestion:** If swallowed, get medical advice by calling a Poison Control Center or hospital emergency room. If advice is not available, take victim and product container to the nearest emergency treatment center or hospital. Do not attempt to give anything by mouth to an unconscious person.

**Most Important symptoms and effects, both acute and delayed:** Causes serious eye irritation. Inhalation of concentrated vapors may cause irritation of the eyes, nose and throat and dizziness and drowsiness.

**Indication of any immediate medical attention and special treatment needed:** Immediate medical attention is not generally required.



## **Section 5. Fire Fighting Measures**

**Suitable (and Unsuitable) Extinguishing Media:** Use water spray or fog, alcohol-resistant foam, carbon dioxide or dry chemical. Cool fire exposed containers with water.

**Specific Hazards Arising from the Chemical:** Flammable liquid and vapor. May form explosive mixtures in air at temperatures at or above the flashpoint. Flammable vapors may collect in confined areas. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flashback. Fire exposed containers may rupture explosively.

**Special Protective Equipment and Precautions for Fire-fighters:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored.

#### **Section 6: Accidental Release Measures**

**Personal precautions, Protective equipment, and Emergency procedures:** Wear appropriate protective clothing and equipment.

**Environmental Precautions:** Avoid release to the environment.

**Methods and Materials for Containment and Cleaning up:** Eliminate all ignition sources. Ventilate area. Use explosion-proof equipment if large amounts are released. Stop leak if it is safe to do so and move containers from the spill area. Collect material with an inert absorbent material and place in appropriate, labeled container for disposal.

## Section 7. Handling and Storage

**Precautions for Safe Handling:** Do not get in eyes or on clothing. Wear appropriate eye protection when handling. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

Flammable liquid and vapor. Keep away from heat, sparks, open flames and all other sources of ignition.

Do not smoke in storage or use areas. Keep containers closed when not in use. Do not reuse empty containers.

**Conditions for Safe Storage, Including any Incompatibilities:** Store in a cool, well ventilated area away from heat, oxidizers and all sources of ignition. Do not contaminate water, food or feed by storage.

Empty containers retain product residues and may be hazardous. Do not flame cut, drill, weld, etc. on or near empty containers, even empty.



## **Section 8. Exposure Controls / Personal Protection**

## **Exposure Limits**

Chemical	Exposure Limit
Water	None Established
Isopropanol	200 ppm TWA, 400 ppm STEL ACGIH TLV
	400 ppm TWA OSHA PEL
Ethylene Glycol Monobutyl Ether (2-	20 ppm TWA ACGIH TLV
Butoxyethanol)	50 ppm TWA OSHA PEL (skin)
Diisobutylphenoxyethoxyethyldimethyl	None Established
benzylammonium chloride	

**Appropriate Engineering Controls:** General ventilation should be adequate for normal use. For operations where the exposure limits may be exceeded, mechanical ventilation such as local exhaust may be needed to minimize exposure. Use explosion proof electrical equipment and wiring where required.

**Respiratory Protection**: None under normal use conditions with adequate ventilation. For operations where the occupational exposure limits are exceeded, an approved respirator with an organic vapor cartridge or supplied air respirator is recommended. Equipment selection depends on contaminant type and concentration. Select in accordance with applicable regulations and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.

**Hand protection:** Impervious gloves such as butyl rubber or nitrile are recommended for operations which may result in prolonged or repeated skin contact.

**Eye Protection**: Splash proof goggles, face shield, or safety glasses are recommended to prevent eye contact.

**Skin Protection:** Wear protective clothing if needed to avoid prolonged/ repeated skin contact. Contaminated clothing should be removed and laundered before re-use.

**Hygiene measures:** Suitable eye wash and washing facilities should be available in the work area.

Appearance: Odor Threshold:	Clear liquid. 0.001 ppm (ethylene glycol monobutyl ether)	Odor: pH:	Alcohol 11.0-12.49
Melting/Freezing Point:	Not determined	Boiling Point/Range:	Not determined
Flash Point:	28.3°C (83°F)	Evaporation Rate:	Not determined
Flammability: (Solid,	Not applicable	Flammability	LEL: 2%
Gas)		Limits:	UEL: 12.7%
Vapor Pressure:	43.3 mmHg @ 20°C (isopropanol)	Vapor Density:	2.1 (isopropanol)
Relative Density:	0.972	Solubilities:	Completely soluble in water



Partition Coefficient: (N-Octanol/Water)

Decomposition Temperature:

Not determined

Not determined

Autoignition Temperature:

Not determined

Temperature: Viscosity:

Not determined

# Section 10. Stability and Reactivity

Reactivity: Not reactive at ambient temperatures.

Chemical Stability: Stable.

Possibility of Hazardous Reactions: Not reactive.

Conditions to avoid: Heat, sparks, flames and all other sources of ignition.

**Incompatible Materials:** Strong oxidizing agents, acids and strong reducing agents.

Hazardous decomposition products: Thermal decomposition will produce carbon monoxide, carbon

dioxide, nitrogen oxides, amines, chlorine and hydrogen chloride.

## **Section 11. Toxicological Information**

#### **Potential Health Effects:**

**Inhalation:** May cause irritation of the nose, throat and upper respiratory tract. High vapor concentrations may produce nausea, vomiting, headache, dizziness, drowsiness, weakness, fatigue, narcosis and possible unconsciousness. Not acutely toxic in rats.

**Skin Contact:** Prolonged or repeated exposure may cause mild irritation. No signs of toxicity or irritation were observed in a dermal toxicity study in rabbits. Non-irritating in a primary irritation study with rabbits. Negative in a skin sensitization study with guinea pigs.

**Eye Contact:** May cause irritation with tearing, redness and pain. Moderate irritant in an eye irritation study with rabbits. Effects reversed in 7 days.

**Ingestion:** Ingestion may cause gastrointestinal disturbances and central nervous system effects such as headache, dizziness, drowsiness and nausea. Not acutely toxic in rats.

**Chronic Hazards**: Prolonged overexposure to ethylene glycol monobutyl ether may affect liver, kidneys, blood, lymphatic system or central nervous system.

Medical Conditions Aggravated By Exposure: None currently known.

**Carcinogen**: None of the components is listed as a carcinogen or potential carcinogen by IARC, NTP, ACGIH, or OSHA.

## **Acute Toxicity Values for CaviCide:**

LD50 Oral Rat >5000 mg/kg, LD50 Dermal Rat >2000 mg/kg, LC50 inhalation LC50 rat >2.08 mg/L

## **Section 12. Ecological Information**



This product is not classified as aquatically toxic based on the GHS criteria for aquatic toxicity.

**Toxicity:** No toxicity data available for product.

Isopropanol: LC50 fathead minnows 11,130 mg/L/48 hr; LC50 brown shrimp 1400 mg/L/48 hr Diisobutylphenoxyethoxyethyldimethylbenzylammonium chloride: LC50 pimephales promelas 1.6 mg/L/96 hr, LC50 lepomis macrochirus 1.4 mg/L/96 hr.

**Persistence and degradability:** Isopropanol and 2-butoxyethanol are readily biodegradable in screening tests. Diisobutylphenoxyethoxyethyldimethylbenzylammonium chloride is not readily biodegradable.

**Bioaccumulative Potential:** Isopropanol has an estimated BCF of 3 suggesting that the potential for bioaccumulation is low.

Mobility in Soil: Isopropanol is expected to have very high mobility in soil.

Other Adverse Effects: None known

## **Section 13. Disposal Considerations**

**Solution Disposal:** Discharge residual and unused solutions in accordance with Federal, State, and local regulations. For used solution, the waste solution must be characterized by the generator and disposed of in accordance with Federal, State, and local regulations.

**Container Disposal:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. If recycling is not available, discard in accordance with hospital policy.

# **Section 14. Transport Information**

	UN Number	UN Proper Shipping Name	Hazard Class(s)	Packing Group	Environmental Hazards
US DOT	None	Not Regulated per alcohol exception (49CFR 173.150(e))	None	None	None
EU ADR/RID	UN1987	Alcohols, n.o.s. (Isopropanol)	3	III	None
IMDG	UN1987	Alcohols, n.o.s. (Isopropanol)	3	III	None
IATA/ICAO	UN1987	Alcohols, n.o.s. (Isopropanol)	3	III	None

**Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Not applicable – product is transported only in packaged form.

Special precautions: None identified

## Section 15. Regulatory Information



## **U.S. Federal Regulations:**

EPA SARA 311/312 Hazard Classification: Fire Hazard, Acute Health, Chronic Health

EPA SARA 313: This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372):

Ethylene Glycol Monobutyl Ether (Glycol Ether)

111-76-2

1-5%

**Protection Of Stratospheric Ozone:** This product is not known to contain or to have been manufactured with ozone depleting substances as defined in 40 CFR Part 82, Appendix A to Subpart A.

**CERCLA SECTION 103:** This product is not subject to CERCLA reporting requirements; however, many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**US EPA Registered Pesticide:** This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

## **CAUTION!**

Harmful if absorbed through the skin. Causes moderate eye irritation. Keep out of reach of children.

## **International Inventories**

**US EPA TSCA Inventory**: All of the components of this product are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory or exempt.

**Canadian Environmental Protection Act**: All of the components in this product are listed on the Domestic Substances List (DSL) or exempt.

**Australia:** All of the components in this product are listed on the Australian Inventory of Chemical Substances (AICS) or exempt.

**China:** All of the components in this product are listed on the Inventory of Existing Chemical Substances in China (IECSC) or exempt.

European Union: All the components in this product are listed on the EINECS inventory or exempt.

**Japan:** All of the components in this product are listed on the Japanese Existing and New Chemical Substances (ENCS) inventory or exempt.

Korea: All of the components in this product are listed on the Korean Existing Chemicals List (KECL) or



exempt.

**Philippines:** All of the components of this product are listed on the Philippines Inventory of Chemicals and Chemical Substances (PICCS) or exempt.

## **Section 16. Other Information**

Effective Date: March 23, 2016

Supersedes Date: June 1, 2015

Revision Summary: Removed prop 65 notice per exposure assessment.

The information and recommendations set forth herein are taken from sources believed to be accurate as of the date of preparation, however, METREX™ RESEARCH makes no warranty with respect to the accuracy or suitability of the recommendations, and assumes no liability to any use thereof.



# SAFETY DATA SHEET

Issuing Date 10-Jan-2017 Revision Date 15-Aug-2017 Revision Number 3

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier** 

Product Name Clorox Healthcare® Bleach Germicidal Wipes

Other means of identification

Synonyms None

EPA Pesticide registration number 67619-12

Recommended use of the chemical and restrictions on use
Recommended Use Wipes, Disinfecting
Uses advised against No information available

Details of the supplier of the safety data sheet

**Supplier** The Clorox Company

Supplier Address 1221 Broadway

Oakland CA 94612 US

**Telephone** 1-510-271-7000

Emergency telephone number

**Emergency Telephone Number** For Medical Emergencies call: 1-800-446-1014. Transportation Emergencies, call

Chemtrec: 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

#### Classification

This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

#### GHS Label elements, including precautionary statements

**Emergency Overview** 

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Appearance White Physical state Odor Fruity, Floral, Bleach

Pre-Moistened Towelette (no free liquids)

**Precautionary Statements - Prevention** 

Not applicable

**Precautionary Statements - Response** 

None

Revision Date 15-Aug-2017

#### **Precautionary Statements - Storage**

None

#### **Precautionary Statements - Disposal**

None

#### Hazards not otherwise classified (HNOC)

Not applicable

#### **Unknown Toxicity**

21.8 % of the mixture consists of ingredient(s) of unknown toxicity

#### Other information

No information available

#### Interactions with Other Chemicals

No information available.

## **Interactions with Other Chemicals**

May react with bleach-containing products or other household cleaners to produce hazardous gases.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which at their given concentration, are considered to be hazardous to health.

## 4. FIRST AID MEASURES

First aid measures

**General Advice** Show this safety data sheet to the doctor in attendance.

Eye contact Rinse thoroughly with water as necessary. If symptoms persist, call a physician.

**Skin contact** Wash with soap and water. If skin irritation persists, call a physician.

Inhalation Remove to fresh air. If breathing is difficult, (trained personnel should) give oxygen. If

symptoms persist, call a physician.

**Ingestion** Drink 1 or 2 glasses of water. Get medical attention if symptoms occur.

Most important symptoms and effects, both acute and delayed

**Most Important Symptoms and** 

**Effects** 

Irritating.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

## **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

#### Unsuitable extinguishing media

Clorox Healthcare® Bleach Germicidal Wipes

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CAUTION: Use of water spray when fighting fire may be inefficient.

#### Specific hazards arising from the chemical

No information available.

#### **Hazardous Combustion Products**

Carbon oxides.

**Explosion Data** 

Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge No.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with eyes.

**Other Information** Refer to protective measures listed in Sections 7 and 8.

**Environmental precautions** 

**Environmental precautions** See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

# 7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible products

None known based on information supplied.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

**Exposure Guidelines**This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992)

Appropriate engineering controls

Engineering Measures Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection No special protective equipment required.

Revision Date 15-Aug-2017

**Skin and body protection**No special protective equipment required.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### **Physical and Chemical Properties**

Physical statePre-Moistened Towelette (no free liquids)AppearanceWhiteOdorFruity Floral BleachColorNo information availableOdor ThresholdNo information available

Property **Values** Remarks Method 12 - 12.5 (liquid) На None known No data available Melting / freezing point None known Boiling point / boiling range No data available None known **Flash Point** No data available None known **Evaporation Rate** No data available None known Flammability (solid, gas) No data available None known

Flammability Limit in Air

Upper flammability limit
Lower flammability limit
Vapor pressure

No data available
No data available
No data available

None known Vapor density No data available None known **Specific Gravity** ~1.0 (liquid) None known Water Solubility Completely soluble None known No data available Solubility in other solvents None known Partition coefficient: n-octanol/water0 None known **Autoignition temperature** No data available None known No data available **Decomposition temperature** None known Kinematic viscosity No data available None known None known

Dynamic viscosityNo data availableExplosive propertiesNo data availableOxidizing propertiesNo data available

#### **Other Information**

Softening Point

VOC Content (%)

Particle Size

Particle Size Distribution

No data available

No data available

No data available

## 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

#### **Chemical stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

## Conditions to avoid

None known based on information supplied.

Clorox Healthcare® Bleach Germicidal Wipes

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Incompatible materials

Ammonia Acids

#### **Hazardous Decomposition Products**

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information .

**Inhalation** May cause irritation of respiratory tract.

**Eye contact** May cause slight irritation.

**Skin contact** Substance may cause slight skin irritation.

Ingestion Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal

irritation, nausea, vomiting and diarrhea.

**Component Information** 

Information on toxicological effects

**Symptoms** May cause redness and tearing of the eyes.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** No information available.

Mutagenic Effects No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

**Reproductive toxicity** No information available.

STOT - single exposure No information available.

**STOT - repeated exposure** No information available.

**Chronic Toxicity** No known effect based on information supplied.

Target Organ Effects Eyes. Skin. Respiratory system. Reproductive system.

Aspiration Hazard No information available.

Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

No information available

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

None known.

Revision Date 15-Aug-2017

#### **Persistence and Degradability**

No information available.

#### **Bioaccumulation**

No information available

#### Other adverse effects

No information available.

# 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

**Disposal methods** Dispose of in accordance with federal, state and local regulations.

Contaminated Packaging Do not reuse empty containers. Dispose of in accordance with federal, state and local

regulations.

## 14. TRANSPORT INFORMATION

DOTNOT REGULATEDTDGNOT REGULATEDICAONOT REGULATEDIATANOT REGULATEDIMDG/IMONOT REGULATED

## 15. REGULATORY INFORMATION

#### **International Inventories**

TSCA All components are listed on the TSCA Inventory
DSL All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

## **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

Acute Health Hazard No
Chronic Health Hazard No
Fire Hazard No
Sudden release of pressure hazard No
Reactive Hazard No

#### **CWA (Clean Water Act)**

Revision Date 15-Aug-2017

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

## **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

This product does not contain any substances above threshold limits that are regulated by state right-to-know.

#### EPA Pesticide registration number 67619-12

#### **EPA Statement**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

#### **EPA Pesticide label**

CAUTION: Liquid causes moderate eye irritation. Do not get in eyes or on clothing. Avoid contact with clothing. Wear protective eyewear. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. For sensitive skin or prolonged use, wear gloves.

## **International Regulations**

Canada
WHMIS Hazard Class
Not determined

4.0	ATUED I	NEODIA	ATION
16	OTHER I	NFORM	$\Delta$ I I( )N

NFPA Health Hazards 1 Flammability 0 Instability 1 Physical and

Flammability 0

**Chemical Hazards** 

**Personal Protection** 

N/A

**Physical Hazard** 1

A

Product Stewardship

23 British American Blvd. Latham, NY 12110 1-800-572-6501

**Issuing Date** 10-Jan-2017 **Revision Date** 15-Aug-2017

Revision Note No information available

**Health Hazards** 1

#### **Disclaimer**

Prepared By

**HMIS** 

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

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**End of Safety Data Sheet** 



# SAFETY DATA SHEET

Issuing DateNo data availableRevision Date25-Aug-2017Revision Number6

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name Clorox Healthcare® Hydrogen Peroxide Cleaner Disinfectant Wipes

Other means of identification

Synonyms None

EPA Pesticide registration number 67619-25

Recommended use of the chemical and restrictions on use

**Recommended Use** Wipes, Disinfecting **Uses advised against** No information available

Details of the supplier of the safety data sheet

**Supplier** The Clorox Company

Supplier Address 1221 Broadway

Oakland CA 94612 US

**Telephone** 1-510-271-7000

Emergency telephone number

**Emergency Telephone Number** For Medical Emergencies call: 1-800-446-1014. Transportation Emergencies, call

Chemtrec: 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

## Classification

This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

## GHS Label elements, including precautionary statements

# **Emergency Overview**

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Appearance White Physical state Odor Cleaning Agent

Pre-Moistened Towelette (no free liquids)

**Precautionary Statements - Prevention** 

Not applicable

**Precautionary Statements - Response** 

None

Clorox Healthcare® Hydrogen Peroxide Cleaner Disinfectant Wipes

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**Precautionary Statements - Storage** 

None

**Precautionary Statements - Disposal** 

None

Hazards not otherwise classified (HNOC)

Not applicable

**Unknown Toxicity** 

19 % of the mixture consists of ingredient(s) of unknown toxicity

Other information

Harmful to aquatic life with long lasting effects

**Interactions with Other Chemicals** 

No information available.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which at their given concentration, are considered to be hazardous to health.

## 4. FIRST AID MEASURES

First aid measures

**General Advice** Show this safety data sheet to the doctor in attendance.

Eye contact Rinse thoroughly with water as necessary. Get medical attention if irritation develops and

persists.

**Skin contact** Wash skin with soap and water. Get medical attention if irritation develops and persists.

**Inhalation** If symptoms develop move victim to fresh air. If breathing is difficult, (trained personnel

should) give oxygen. If symptoms persist, call a physician.

**Ingestion** Drink 1 or 2 glasses of water. Get medical attention if symptoms occur.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and

None known.

**Effects** 

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

## **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Revision Date 25-Aug-2017

Clorox Healthcare® Hydrogen Peroxide Cleaner Disinfectant Wipes

Unsuitable extinguishing media

CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

No information available.

**Hazardous Combustion Products** 

Carbon oxides.

**Explosion Data** 

Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge No.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with eyes.

**Other Information** Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary

treatment facility in advance to assure ability to process washed-down material.

#### 7. HANDLING AND STORAGE

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible products

None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies

Appropriate engineering controls

Engineering Measures Ventilation systems

Individual protection measures, such as personal protective equipment

**Eye/face protection** No special protective equipment required.

Clorox Healthcare® Hydrogen Peroxide Cleaner Disinfectant Wipes

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**Skin and body protection**No special protective equipment required.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

None known

None known

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### **Physical and Chemical Properties**

Physical state Pre-Moistened Towelette (no free liquids)
Appearance White Odor Cleaning Agent

Color No information available Odor Threshold No information available

PropertyValuesRemarksMethodpH2 - 3 (liquid)None knownMelting / freezing pointNo data availableNone known

Boiling point / boiling range No data available None known Flash Point >93°C None known Evaporation Rate No data available None known No data available None known No data available None known No data available None known

Flammability Limit in Air

Upper flammability limit
Lower flammability limit
No data available
Vapor pressure
No data available

Vapor density No data available None known Specific Gravity ~1.0 (liquid) None known **Water Solubility** Completely soluble None known Solubility in other solvents No data available None known Partition coefficient: n-octanol/water0 None known **Autoignition temperature** No data available None known **Decomposition temperature** No data available None known None known

Kinematic viscosity

Dynamic viscosity

Explosive properties

Oxidizing properties

No data available
No data available
No data available

#### **Other Information**

Softening Point
VOC Content (%)
Particle Size
Particle Size Distribution
No data available
No data available
No data available

# 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

## **Chemical stability**

Stable under recommended storage conditions.

#### Possibility of Hazardous Reactions

None under normal processing.

## **Conditions to avoid**

None known based on information supplied.

Clorox Healthcare® Hydrogen Peroxide Cleaner Disinfectant Wipes

Revision Date 25-Aug-2017

Incompatible materials

None known

#### **Hazardous Decomposition Products**

None known.

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Product Information** 

**Inhalation** May cause irritation of respiratory tract.

**Eye contact** May cause slight irritation.

**Skin contact** Substance may cause slight skin irritation.

Ingestion Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal

irritation, nausea, vomiting and diarrhea.

**Component Information** 

Information on toxicological effects

**Symptoms** No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

Mutagenic Effects No information available.

**Carcinogenicity** There are no known carcinogenic chemicals in this product.

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Chronic Toxicity** No known effect based on information supplied.

Target Organ Effects No information available.

**Aspiration Hazard** No information available.

Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

No information available

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Harmful to aquatic life with long lasting effects.

#### Persistence and Degradability

No information available.

Revision Date 25-Aug-2017

Bioaccumulation

No information available

#### Other adverse effects

No information available.

## 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

**Disposal methods**Dispose of in accordance with federal, state and local regulations.

Contaminated Packaging Do not reuse empty containers. Dispose of in accordance with federal, state and local

regulations.

# 14. TRANSPORT INFORMATION

**DOT** NOT REGULATED

TDG NOT REGULATED

ICAO NOT REGULATED

IATA NOT REGULATED

IMDG/IMO NOT REGULATED

## 15. REGULATORY INFORMATION

#### **International Inventories**

TSCA All components are listed on the TSCA Inventory
DSL All components are listed either on the DSL or NDSL.

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

## **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

## SARA 311/312 Hazard Categories

Acute Health HazardNoChronic Health HazardNoFire HazardNoSudden release of pressure hazardNoReactive HazardNo

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Revision Date 25-Aug-2017

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#### US State Regulations

## **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

## U.S. State Right-to-Know Regulations

This product does not contain any substances above threshold limits that are regulated by state right-to-know.

## EPA Pesticide registration number 67619-25

#### **EPA Statement**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

#### **EPA Pesticide label**

CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

## International Regulations

Mexico

National occupational exposure limits

No data available

Canada

**WHMIS Hazard Class** 

Non-controlled

# **16. OTHER INFORMATION**

NFPA	Health Hazards	1	Flammability	0	Instability 0	Physical and Chemical Hazards
HMIS	Health Hazards	1	Flammability	0	<b>Physical Hazard</b> 0	Personal Protection

Prepared By Product Stewardship

23 British American Blvd. Latham, NY 12110 1-800-572-6501

Revision Date 25-Aug-2017

**Revision Note**Reference
No information available 1138497/164708.001

## **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

# **End of Safety Data Sheet**

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# **SAFETY DATA SHEET**

Issuing Date January 5, 2015 Revision Date New Revision Number 0

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier** 

Product Name Clorox® Disinfecting Wipes<sub>1</sub> - Citrus Blend

Other means of identification

**EPA Registration Number** 5813-79

Recommended use of the chemical and restrictions on use

Recommended use Moistened disinfecting wipes

Uses advised against No information available

Details of the supplier of the safety data sheet

**Supplier Address** 

The Clorox Company 1221 Broadway Oakland, CA 94612

Phone: 1-510-271-7000

**Emergency telephone number** 

**Emergency Phone Numbers** For Medical Emergencies call: 1-800-446-1014

For Transportation Emergencies, call Chemtrec: 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

## Classification

This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

## GHS Label elements, including precautionary statements

## **Emergency Overview**

This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Appearance Clear, colorless liquid absorbed into white, non-woven wipes Physical State Thin liquid absorbed into non-woven wipes

Odor Citrus, Iemon, Iime

## **Precautionary Statements - Prevention**

None

#### **Precautionary Statements - Response**

None

## **Precautionary Statements - Storage**

None

## **Precautionary Statements - Disposal**

None

## **Hazards not otherwise classified (HNOC)**

Not applicable

## **Unknown Toxicity**

21.5% of the mixture consists of ingredient(s) of unknown toxicity

#### **Other information**

No information available

# **Interactions with Other Chemicals**

No information available.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight %	Trade Secret
Ethylene glycol monohexyl ether	112-25-4	1 - 5	*
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	85409-23-0	0.1 - 0.2	*
n-Alkyl (5% C12, 60% C14, 30% C16, 5% C18) dimethyl benzyl ammonium chloride	53516-76-0	0.1 - 0.2	*

<sup>\*</sup> The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. FIRST AID MEASURES

First aid measures

**General Advice** Show this safety data sheet to the doctor in attendance.

Eye Contact Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. If present,

remove contact lenses after the first 5 minutes of rinsing, then continue rinsing eye. Call a

poison control center or doctor for further treatment advice.

**Skin Contact** Rinse skin with plenty of water. If irritation persists, call a doctor.

**Inhalation** Move to fresh air. If breathing problems develop, call a doctor.

**Ingestion** Drink a glassful of water. Call a doctor or poison control center.

Most important symptoms and effects, both acute and delayed

**Most Important Symptoms and** 

**Effects** 

Liquid may cause eye irritation.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

## **Unsuitable Extinguishing Media**

CAUTION: Use of water spray when fighting fire may be inefficient.

#### Specific Hazards Arising from the Chemical

#### **Hazardous Combustion Products**

Oxides of carbon.

#### **Explosion Data**

Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge No.

## Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid contact with eyes.

**Other Information** Refer to protective measures listed in Sections 7 and 8.

**Environmental precautions** 

**Environmental Precautions** See Section 12 for additional ecological information.

#### Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment

facility in advance to assure ability to process washed-down material.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

eyes, skin, and clothing. Do not eat, drink, or smoke when using this product.

# Conditions for safe storage, including any incompatibilities

**Storage** Keep containers tightly closed in a dry, cool, and well-ventilated place.

Incompatible Products None known.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

## **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethylene glycol monohexyl ether 112-25-4	None	None	None
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride 85409-23-0	None	None	None
n-Alkyl (5% C12, 60% C14, 30% C16, 5% C18) dimethyl benzyl ammonium chloride 53516-76-0	None	None	None

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

#### **Appropriate engineering controls**

Engineering Measures Showers

Eyewash stations Ventilation systems

#### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** No special protective equipment required.

**Skin and Body Protection**No special protective equipment required.

Respiratory Protection No protective equipment is needed under normal use conditions. If irritation is

experienced, ventilation and evacuation may be required.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### **Physical and Chemical Properties**

Physical State Thin liquid absorbed into non-woven

wipes

Appearance Clear liquid absorbed into non-woven Odor Citrus, lemon, lime

wipes

Color Colorless liquid - white non-woven Odor Threshold No information available

None known

wipes

Remarks/ Method **Property Values** 6 - 9 (liquid) None known Hq Melting/freezing point No data available None known Boiling point / boiling range No data available None known Flash Point No data available None known **Evaporation rate** No data available None known

No data available

Flammability (solid, gas) Flammability Limits in Air

Upper flammability limit No data available None known Lower flammability limit No data available None known Vapor pressure No data available None known No data available Vapor density None known Specific Gravity ~1.0 (liquid) None known **Water Solubility** Complete (liquid) None known Solubility in other solvents No data available None known Partition coefficient: n-octanol/waterNo data available None known **Autoignition temperature** No data available None known **Decomposition temperature** No data available None known Kinematic viscosity No data available None known Dynamic viscosity No data available None known

**Explosive Properties**Not explosive **Oxidizing Properties**No data available

**Other Information** 

Softening Point

VOC Content (%)

Particle Size

Particle Size Distribution

No data available
No data available
No data available

## 10. STABILITY AND REACTIVITY

## Reactivity

No data available.

## **Chemical stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

## **Conditions to avoid**

None known based on information supplied.

#### **Incompatible materials**

None known.

#### **Hazardous Decomposition Products**

None known.

## 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

Product Information

**Inhalation** Exposure to vapor or mist may irritate respiratory tract.

**Eye Contact** Liquid may cause irritation.

**Skin Contact** Liquid may cause slight irritation.

Ingestion Ingestion of liquid may cause slight irritation to mucous membranes and gastrointestinal

tract.

## **Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethylene glycol monohexyl ether 112-25-4	739 mg/kg (Rat)	721 mg/kg (Rabbit)	>0.5 mg/L (Rat, 4 h)

#### Information on toxicological effects

**Symptoms** Liquid may cause redness and tearing of eyes.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

Mutagenic Effects No information available.

Carcinogenicity None of the ingredients in this product are on the IARC, OSHA, or NTP carcinogen lists.

**Reproductive Toxicity** No information available.

Clorox® Disinfecting Wipes<sub>1</sub> - Citrus Blend

Revision Date New

STOT - single exposure No information available.

STOT - repeated exposure

No information available. No known effect based on information supplied.

**Chronic Toxicity Target Organ Effects** Respiratory system, eyes, skin, gastrointestinal tract (GI).

**Aspiration Hazard** No information available.

## **Numerical measures of toxicity - Product Information**

## ATEmix (oral)

40.1 g/kg

## ATEmix (dermal)

59.8 g/kg

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

No information available.

#### Persistence and Degradability

No information available.

## **Bioaccumulation**

No information available.

#### Other adverse effects

No information available.

# 13. DISPOSAL CONSIDERATIONS

## Disposal methods

Dispose of in accordance with all applicable federal, state, and local regulations.

## **Contaminated Packaging**

Do not reuse empty containers. Dispose of in accordance with all applicable federal, state, and local regulations.

# 14. TRANSPORT INFORMATION

**DOT** Not regulated.

**TDG** Not regulated.

**ICAO** Not regulated.

**IATA** Not regulated

**IMDG/IMO** Not regulated

## 15. REGULATORY INFORMATION

## **Chemical Inventories**

TSCA All components of this product are either on the TSCA 8(b) Inventory or otherwise exempt

from listing.

**DSL/NDSL** All components are on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

#### **U.S. Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical which is subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	CAS No.	Weight %	Threshold Value (%)
Ethylene glycol monohexyl ether	112-25-4	1 - 5	1.0

## SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

#### **CWA (Clean Water Act)**

This product does not contain any substances that are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This product does not contain any substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

## **EPA Statement**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**CAUTION:** Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

## **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

## U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Ethylene glycol monohexyl ether 112-25-4			Х	X	Х
Isopropyl alcohol 67-63-0	Х	Х	Х	Х	

# **International Regulations**

Canada WHMIS Hazard Class D2B Toxic materials



# **16. OTHER INFORMATION**

NFPA Health Hazard 1 Flammability 0 Instability 0 Physical and Chemical Hazards -

HMIS Health Hazard 1 Flammability 0 Physical Hazard 0 Personal Protection A

Prepared By Product Stewardship

23 British American Blvd. Latham, NY 12110 1-800-572-6501

Preparation/Revision Date January 5, 2015

Revision Note New

**Reference** 1073956/174191.002

#### **General Disclaimer**

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**End of Safety Data Sheet** 



## \*SAFETY DATA SHEET\*

		SECTION 1: PF	RODUCT IDENTIFICA	ATION AND CO	DMPANY IDEN	ITIFICATI	ON	
PRODUCT NAME:	McKess	McKesson Consult ® iFOBT Test						
MFR №.:	4485; 44	4485; 4486; 4487; 4487-HCCHP						
INTENDED USE:	McKesson Consult ® iFOBT Test, a Fecal Immunochemical Test (FIT) is a rapid, convenient qualitative immunoassay for the determination of human hemoglobin in feces, a vital tool in the diagnosis and therapy of gastrointestinal disorders. McKesson Consult ® iFOBT Test features an innovative sampling method that utilizes one card for collection of two (2) specimens of feces and ONLY one immunochemical specimen preparation tube/test cassette system for analysis.							
PRODUCT USE:	For In Vi	tro Diagnostic Use. Se	e product literature for detai	ls.	EMERGENCY:	1-800-45 Day or N	51-8346 (3E ( Night	Company)
DISTRIBUTED BY:	McKesso	on Medical-Surgical Inc						
ADDRESS:		yland Drive, Suite 4000 d, Virginia 23233	)					
TELEPHONE:	1-800-77 Monday	7-4908 – Friday 8:00 am – 6pr	n EST					
			SECTION 2: HAZ	ARDS IDENTIF	ICATION			
GHS CLASSIFIC	CATION	SIGNAL WORD	SYMBOL	HAZARD & PREC	AUTIONARY STAT	EMENTS		
Not Hazardo	ous	N/A	N/A		N/A			
Emergency Overvi	Emergency Overview:  This product has been classified as non-hazardous based on the physical and/or chemical nature and/or concentration of ingredients. Product has little to no hazards for Emergency Responders if spilled and has no unusual hazard if in a fire. Sodium azide (≤ 0.1%) is included as a preservative. Although it is not considered hazardous at this level, please note that accumulated sodium azide may react with lead or copper plumbing to form highly explosive metal azides. Thorough flushing of plumbing is recommended.  While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.  As part of good industrial, personal hygiene & safety procedure, avoid all unnecessary exposure to the chemical components in this kit and ensure prompt removal from skin, eyes, and clothing. Significant health effects are NOT anticipated from routine use when adhering to the instructions listed in the Package Insert provided with kit.  This kit may contain material of human or animal origin and should be considered as potentially capable of transmitting infectious diseases. Human serum products and patient specimens should be considered potentially hazardous and handled in the same manner as an infectious agent. Follow Universal Precautions as necessary.							
		SECTIO	N 3: COMPOSITION	'INFORMATION	N OF INGREDI	ENTS		
PRODUCT DESCRIPTION: Mixture; Clear Color (Buffer Soln.); Liquid; Odorless; Consisting of the following ingredient(s)								
CHEMICAL I	NAME	IUPAC	SYNONYMS	СОМІ	POSITION	IDEN	NTIFIERS	
Sodium Azid		Sodium Azide	Sodium trinitride; Smit Sodium azoimio		≤ 0.1%	EC	SCHEM	26628-22-8   33557   247-852-1
Molecular Fo	ormula:					RTE	CS	1687 VY8050000



## \*SAFETY DATA SHEET\*

## **SECTION 4: FIRST AID MEASURES**

EYES: In case of contact with eyes, immediately wash eyes under potable running water for at least 15 minutes, making sure that the eyelids are held open. If

pain or irritation occurs, obtain medical attention.

SKIN: In case of contact to the skin, remove any contaminated clothing and wash affected area with plenty of soap and water. If pain, irritation, or other

symptoms develop, obtain medical attention.

INGESTION: In case of ingestion, contact a poison control center or physician for instructions. Only induce vomiting if directed to do so by medical personnel. Never

give anything by mouth to an unconscious person.

INHALATION: Inhalation of any component in this kit is unlikely. If a component of this kit is inhaled and causes discomfort, move exposed individual to fresh air.

Seek medical attention if breathing is difficult or symptoms persist. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance.

SYMPTOMS: To the best of our knowledge, no symptoms, acute or delayed, have been reported.

## **SECTION 5: FIRE FIGHTING MEASURES**

Flash Point: Non Combustible
Auto-ignition Temperature: Not Applicable
Upper / Lower Explosion Limit: Not Applicable

Extinguishing Media: For small fires, use dry chemical, carbon dioxide, alcohol-resistant foam, or water spray

Special Fire Fighting Procedures:

This material will not significantly contribute to the intensity of a fire. Use extinguishing materi

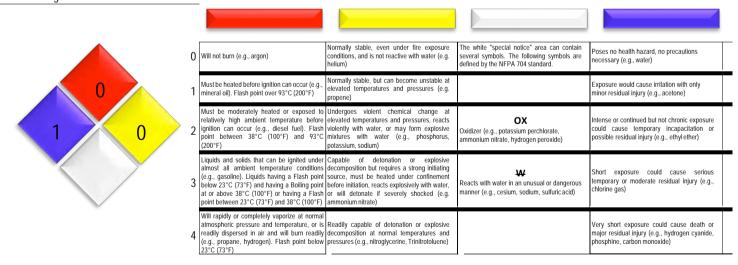
This material will not significantly contribute to the intensity of a fire. Use extinguishing material suitable to the surrounding fire. Utilize proper personal protective equipment when responding to any fire. Incipient fire responders should wear eye protection.

Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment.

Special Exposure Hazards: None Identified

Only trained and competent personnel shall attempt to extinguish a fire. Contact emergency response personnel as required. Be cautious of surrounding materials that may react with the extinguishing media.

#### NFPA Ratings:



### SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: This kit contains materials of biological origin. Use Personal Protective Equipment during clean-up procedures. Use good laboratory

procedures; avoid eye and skin contact.

Environmental Precautions: No environmental hazard is anticipated provided that the material is handled and disposed of with due care. Contain spill to prevent

nigration.

Spill and Leak Procedures: Large spills of this kit are unlikely. Personnel who have received basic chemical safety training can generally handle small-scale releases,

such as 1 container in this kit. Utilize safety glasses, nitrile gloves, and lab coat/apron when responding to spills involving the components of this kit. Absorb liquid with an appropriate inert, non-flammable absorbent and place in container suitable for disposal. Dispose of in accordance with applicable U.S. Federal, State, or local procedures or appropriate standards of Canada or the EU (see Section 13, Disposal

Considerations).



## **\*SAFETY DATA SHEET\***

### **SECTION 7: HANDLING & STORAGE**

Handling: As with all chemicals, avoid getting components within this kit ON YOU or IN YOU. Wash exposed areas thoroughly after using this kit. Do not eat or drink while using this kit. This kit should be handled only by qualified clinical or laboratory personnel trained on the use of this kit. This kit should be

drink while using this kit. This kit should be handled only by qualified clinical or laboratory personnel trained on the use of this kit. This kit should be handled as though capable of transmitting infectious diseases. Universal Precautions should be followed when using this kit. Not for use by the general

public.

Storage: Keep away from incompatible materials (Section 10). To maintain efficacy, when not in use, keep components tightly closed and store according to the

package insert instructions.

Specific Use: For in vitro diagnostic use only.

Other: Do not substitute reagents from kits from other manufacturers. The reagents in each kit are matched. Reagents from different kits must not be

interchanged or pooled. Mix the reagents well before use. If the kit does not yield expected results when controls are tested, the kit should be discarded. Traces of detergent or dried reactants on the test slide may adversely affect test performance and results. Replace vial closure when not being used.

Dropper Bulb(s) contain natural rubber.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Limits:**

	OSHA PEL	ACGIH TLV	DFG MAK	NIOSH
Sodium Azide				
EU Index: 011-004-00-7		0.29 mg/m <sup>3</sup> Ceiling (sodium azide):	0.2 mg/m <sup>3</sup> MAK (inhalable	0.3 mg/m <sup>3</sup> Ceiling (sodium azide):
EU Classification: Highly toxic (T+)	none listed	0.11 ppm Ceiling (hydrazoic acid, vapor)	fraction)	0.1 ppm Ceiling (hydrazoic acid, vapor)
Very dangerous for the environment(N)				

Occupational Exposure Controls:

Engineering Controls: No special engineering controls are required when working with this kit. Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above.

Personal Protective Equipment (PPE):

Respiratory Protection: Under normal conditions, the use of this product should not require respiratory protection.

Eye Safety glasses or chemical goggles should be worn to prevent eye contact. Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166

Contact: or appropriate government standards.

Skin Wear Impervious gloves, such as latex or equivalent, should be worn to prevent skin contact and especially cover any cuts, abrasions or Contact: skin lesions. Dispose of gloves as bio-hazardous material. Wash hands thoroughly after removing gloves. Use extreme caution with any

sharp object to avoid percutaneous exposure to material. Wear outer protective garments such as a lab coat or gown. Refer U.S. OSHA

29 CFR 1910.138, European Standard EN374 or appropriate government standards.

Other: Not Applicable

Environmental Controls: No special environmental controls are required.

## SECTION 9: PHYSICAL & CHEMICAL CHARACTERISTICS

Characteristic	Buffer
Appearance	Clear
Odor	Odorless
рН	Neutral
Boiling Point	Not Available
Melting Point	Not available
Specific Gravity	Approximately 1
Vapor Pressure	Not available
Vapor Density	Not available



Viscosity

SDS Date: 08/28/2015

## \*SAFETY DATA SHEET\*

Solubility in Water **Evaporation Rate Auto-ignition Temperature Decomposition Temperature** 

Soluble	
<1	
Not Available	
Not Available	
Not Available	

## **SECTION 10: STABILITY AND REACTIVITY**

Characteristic Buffer

Stable when stored according to approved labeling (see Section 7). Stability:

Do not freeze. Protect from prolonged exposure to heat, humidity, and light, ignition sources & incompatible

materials. Sodium Azide may react with lead and copper plumbing to form highly explosive metal azides. Thorough Conditions to Avoid:

flushing of plumbing with water is recommended.

Materials to Avoid (Incompatibility): Avoid contact with acid, metals, halogenated solvents, and dimethyl sulfate.

None, when stored as recommended.

Hazardous Decomposition or Byproducts: Under Fire conditions: carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride gas

NONE EXPECTED Hazardous Reactions:

## **SECTION 11: TOXICOLOGICAL INFORMATION**

Toxicity Data for Hazardous Ingredients: There are currently no toxicity data available for the components of this kit.

Routes of Exposure: Overexposures to components within this kit are not expected. Common routes of exposure may include ingestion and eye/skin contact. Specific paths of concern for potentially infectious materials are skin puncture,

contact with broken skin, contact with mucous membranes and inhalation of aerosolized material.

This kit may contain materials of human or animal origin and should be considered as potentially capable of

Potential Effects of Acute Overexposure,

By Route Of Exposure:

transmitting infectious diseases.

INHALATION: Vapors, mists, sprays, or dusts of this kit can cause irritation to the respiratory tract.

CONTACT WITH SKIN or EYES: Contact can cause eye or skinirritation. SKIN ABSORPTION: May be harmful if absorbed through skin.

INGESTION: May cause nausea, diarrhea, vomiting, and headache, slight lowering of blood pressure, abdominal pain, and a general feeling

of apprehension and un-wellness, as well as, irritation of the mouth, throat, and other issues of the gastro-intestinal system may

occur.

INJECTION: Accidental injection of this kit may cause burning, reddening, and swelling in addition to the wound. Symptoms of such exposure

can include those described under "Inhalation", "Contact with Skin or Eyes," and "Ingestion".

Potential Effects of Chronic Exposure: Long-term skin or eye contact can result in dermatitis or eye irritation. Prolonged or repetitive exposure to Sodium

Azide may increase risk of cumulative effects.

Symptoms of overexposure to Sodium Azide may include: eye, skin, nose, and throat irritation, headache, nausea Symptoms of Overexposure:

and vomiting. Symptoms may be delayed for several hours after exposure.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly

investigated.

Persons with pre-existing skin disorders; eye problems or impaired respiratory system function can be more Medical Conditions Aggravated by Exposure:

susceptible to health effects associated with overexposures to the chemicals within this kit.

Irritation/Sensitization May cause sensitization by inhalation and skin contact.

Other Effects None identified.

Carcinogenicity No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or GHS



## \*SAFETY DATA SHEET\*

SECTION 12: ECOLOGICAL INFORMATION

No adverse effects on the environment are expected from the components of this kit. **Eco-toxicity** 

Persistence and Degradability, Mobility & Bioaccumulation

Data are not available for the components of this kit.

There is limited potential for the components within this kit to accumulate in plant or animal systems.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Dispose of waste materials, unused components and contaminated packaging in compliance with country (i.e., Canada, EU) federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.

WITH SPECIMEN:

Patient specimens and all materials coming into contact with them should be handled as if capable of transmitting infections and disposed of with proper precautions.

## **SECTION 14: TRANSPORT INFORMATION**

#### U.S. Transportation

This substance is considered to be non-hazardous for transport.

#### Canadian Transportation

The above-listed DOT basic description applies to this product under the regulations of Transport Canada.

#### International Air Transportation

This substance is considered to be non-hazardous for air transport.

#### **SECTION 15: REGULATORY INFORMATION**

#### U.S. FEDERAL AND STATE REGULATIONS

U.S. SARA SECTION 311/312 FOR KIT: Not applicable

U.S. TSCA INVENTORY STATUS:

Sodium Azide listed on the TSCA Inventory.

OTHER U.S. FEDERAL REGULATIONS: Not applicable

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): NO INGREDIENTS LISTED

#### **CANADIAN REGULATIONS:**

CANADIAN DSL/NDSL INVENTORY STATUS: Sodium Azide is listed on the DSL Inventory.

CANADIAN WHMIS SYMBOLS: None Required

### HMIS RATINGS



B: Safety Glasses and Gloves

## **EU LABELING CLASSIFICATION**

Classification: Non-Hazardous-No hazard classification or danger symbol required.

Risk Phrases: N/A Safety Phrases: N/A



## **\*SAFETY DATA SHEET\***

## **SECTION 16: OTHER INFORMATION**

Revision Date: August 28, 2015

This SDS has been updated to comply with GHS requirements

## DISCLAIMER:

This information relates onto to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. The information and recommendations contained herein are to the best of the manufacturer's knowledge and belief accurate and reliable as of the date indicated. No representation warranty or guarantee, however, is made with regards to accuracy, reliability or completeness. Conditions of use of the material are under the control of the user; therefore, it is the user's responsibility to satisfy itself as to the suitability and completeness of such information for its own particular use. Appropriate warnings and safe-handling procedures should be provided to handlers and users..

# **NFPA 704**

#### CHEMTREC® (24 hours) 1-800-424-9300

(Toll-free in the U.S., Canada, and the U.S. Virgin Islands) For calls originating elsewhere:

703-527-3887 (Collect calls are accepted)

## CHEMTEL, INC. (24 hours) 1-888-255-3924

(Toll-free in the U.S., Canada, Puerto Rico and the U.S. Virgin Islands)
For calls originating elsewhere:
813-248-0585 (Collect calls are accepted)

#### **INFOTRAC** (24 hours) 1-800-535-5053

(Toll-free in the U.S., Canada, and the U.S. Virgin Islands)
For calls originating elsewhere:
352-323-3500 (Collect calls are accepted)

**3E COMPANY** (24 hours) **1-800-451-8346** 

(Toll-free in the U.S., Canada, and the U.S. Virgin Islands)
For calls originating elsewhere:
760-602-8703 (Collect calls are accepted)

The emergency response information services shown above have requested to be listed as providers of emergency response information and have agreed to provide emergency response information to all callers. They maintain periodically updated lists of state and Federal radiation authorities who provide information and technical assistance on handling incidents involving radioactive materials.

#### NATIONWIDE POISON CONTROL CENTER (United States Only)

Emergency and information calls are answered by the nearest Poison Center (24 hours): 1-800-222-1222 (toll-free in the U.S.).

#### **NATIONAL RESPONSE CENTER (NRC)**

The NRC, which is operated by the U.S. Coast Guard, receives reports required when dangerous goods and hazardous substances are spilled. After receiving notification of an incident, the NRC will immediately notify the appropriate Federal On-Scene Coordinator and concerned Federal agencies. Federal law requires that anyone who releases into the environment a reportable quantity of a hazardous substance (including oil when water is, or may be affected) or a material identified as a marine pollutant must **immediately** notify the NRC. When in doubt as to whether the amount released equals the required reporting levels for these materials, the NRC should be notified.

CALL NRC (24 hours) 1-800-424-8802 (Toll-free in the U.S., Canada, and the U.S. Virgin Islands) 202-267-2675 in the District of Columbia

Calling the emergency response telephone number, CHEMTREC®, CHEMTEL, INC., INFOTRAC or 3E COMPANY, does not constitute compliance with regulatory requirements to call the NRC.

#### **DEFINITIONS OF TERMS**

A large number of abbreviations and acronyms appear on a MSDS. Some of these, which are commonly used, include the following:

CAS (Chemical Abstract Service) Number that uniquely identifies each compound.

ACGIH (American Conference of Governmental Industrial Hygienists): a professional association that establishes exposure limits.

TLV (Threshold Limit Value): an airborne concentration of a substance that represents conditions under which it is generally believed that nearly all workers can be repeatedly exposed without adverse effect. The duration must be considered, including the 8-hour Time Weighted Average (TWA), the 15-minute Short Term Exposure Limit, and the instantaneous Ceiling Level (C). Skin absorption effects must also be considered.

OSHA (U.S. Occupational Safety and Health Administration)

PEL (Permissible Exposure Limit): This exposure value means exactly the same as a TLV, except that it is enforceable by OSHA. The OSHA Permissible Exposure Limits are based in the 1989 PELs and the June, 1993 Air Contaminants Rule (Federal Register: 58: 35338-35351 and 58: 40191). Both the current PELs and the vacated PELs are indicated. The phrase, "Vacated 1989 PEL," is placed next to the PEL that was vacated by Court Order.

IDLH (Immediately Dangerous to Life and Health): This level represents a concentration from which one can escape within 30- minutes without suffering escape-preventing or permanent injury.

DFG-MAK is the Republic of Germany's Maximum Exposure Level, similar to the U.S. PEL. NIOSH is the National Institute of Occupational Safety and Health, which is the research arm of the U.S. Occupational Safety and Health Administration (OSHA).

NIOSH issues exposure guidelines called Recommended Exposure Levels (RELs). When no exposure guidelines are established, an entry of NE is made for reference.

#### Protective Equipment

- A: Safety Glasses.
- B: Safety glasses and gloves.
- C: Safety glasses, gloves and body protection.
- D: Splash goggles with face shield, gloves and bodyprotection.
- E: Eye protection, gloves and dust mask respiratory protection.
- F: Eye protection, gloves, body protection and dust maskrespiratory protection.
- G: Eye protection, gloves and air purifying respiratory protection.

#### HAZARD RATINGS:

## HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS):

Health Hazard: 0 (minimal acute or chronic exposure hazard); 1 (slight acute or chronic exposure hazard); 2 (moderate acute or significant chronic exposure hazard); 3 (severe acute exposure hazard; onetime overexposure can cause permanent injury and can be fatal); 4 (extreme acute exposure hazard; single overexposure can be fatal). \* Indicates chronic hazard.

Flammability Hazard: 0 (minimal hazard); 1 (materials that require substantial preheating before burning); 2 (combustible liquid or solids; liquids with a flash point of 38-93°C [100-200°F]); 3 (Class IB and IC flammable liquids with flash points below 38°C [100° F]); 4 (Class IA flammable liquids with flash points below 23°C [73°F] and boiling points below 38°C [100°F].

Reactivity Hazard: 0 (normally stable); 1 (material that can become unstable at elevated temperatures or which can react slightly with water); 2 (materials that are unstable but do not detonate or which can react violently with water); 3 (materials that can detonate when initiated or which can react explosively with water); 4 (materials that can detonate at normal temperatures or pressures).

#### NATIONAL FIRE PROTECTION ASSOCIATION (NFPA):

Health Hazard: 0 (material that on exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials); 1 (materials that on exposure under fire conditions could cause irritation or minor residual injury); 2 (materials that on intense or continued exposure under fire conditions could cause temporary incapacitation or possible residual injury); 3 (materials that can on short exposure could cause serious temporary or residual injury); 4 (materials that under very short exposure could cause death or major residualinjury).

Flammability Hazard and Reactivity Hazard: Refer to definitions for "Hazardous Materials Identification System".

FLAMMABILITY LIMITS IN AIR: Much of the information related to fire and explosion is derived from the National Fire Protection Association (NFPA). Flash Point - Minimum temperature at which a liquid gives off sufficient vapors to form an ignitable mixture with air. Autoignition Temperature: The minimum temperature required to initiate combustion in air with no other source of ignition. LEL - the lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source. UEL - the highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source.

#### TOXICOLOGICAL INFORMATION:

Possible health hazards as derived from human data, animal studies, or from the results of studies with similar compounds are presented. Definitions of some terms used in this section are: LD50 - Lethal Dose (solids & liquids) which kills 50% of the exposed animals; LC50 - Lethal Concentration (gases) which kills 50% of the exposed animals; ppm concentration expressed in parts of material per million parts of air or water; mg/m3 concentration expressed in weight of substance per volume of air; mg/kg quantity of material, by weight, administered to a test subject, based on their body weight in kg. Other measures of toxicity include TDLo, the lowest dose to cause a symptom and TCLo the lowest concentration to cause a symptom; TDo, LDLo, LDo, TC, TCo, LCLo, and LCo, the lowest dose (or concentration) to cause lethal or toxic effects. BEI - Biological Exposure Indices, represent the levels of determinants that are most likely to be observed in specimens collected from a healthy worker who has been exposed to chemicals to the same extent as a worker with inhalation exposure to the TLV. Ecological Information: EC is the effect concentration in water.

Data from several sources are used to evaluate the cancer-causing potential of the material. The sources and ratings are: IARC - the International Agency for Research on Cancer; 1 = Carcinogenic to humans, 2A, 2B = Probably carcinogenic to humans, 3 = Unclassifiable as to carcinogenicity in humans, and 4 = Probably not carcinogenic to humans. NTP - the National Toxicology Program; K = Known to be a human carcinogen, and R = Reasonably anticipated to be a human carcinogen. RTECS - the Registry of Toxic Effects of Chemical Substances. OSHA -Occupational Safety and Health Administration and CAL/OSHA - California's subunit of the Occupational Safety and Health Administration; Ca = Carcinogen defined with no further categorization. ACGIH - American Conference of Governmental Industrial Hygienists; A1 = Confirmed human carcinogen, A2 = Suspected human carcinogen, A3 = Confirmed animal carcinogen with unknown relevance to humans, A4 = Not classifiable as a human carcinogen, and A5 = Not suspected as a human carcinogen. NIOSH - U.S. National Institute for Occupational Safety and Health; Ca = Potential occupational carcinogen, with no further categorization. EPA - U.S. Environmental Protection Agency; A = Human carcinogen, B = Probable human carcinogen, C = Possible human carcinogen, D = Not classifiable as to human carcinogenicity, E = Evidence of Non-carcinogenicity for humans, K = Known human carcinogen, L = Likely to produce cancer in humans, CBD = Cannot be determined, NL = Not likely to be carcinogenic in humans, and I = Data are inadequate for an assessment of human carcinogenic potential.

### **REGULATORY INFORMATION:**

This section explains the impact of various laws and regulations on the material. EPA is the U.S. Environmental Protection Agency. WHMIS is the Canadian Workplace Hazardous Materials Information System. DOT and TC are the U.S. Department of Transportation and the Transport Canada, respectively.

Superfund Amendments and Reauthorization Act (SARA); the Canadian Domestic/Non-Domestic Substances List (DSL/NDSL); the U.S. Toxic Substance Control Act (TSCA); Marine Pollutant status according to the DOT; the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund); and various state regulations.

This section also includes information on the precautionary warnings that appear on a material's industrial package label.

## Cyanocobalamin Injection, USP



## Section 1. Identification

**GHS** product identifier

: Cyanocobalamin Injection, USP

**Synonyms** 

Not available.

**Product code** 

: NDC 0143-9621-25 (25 x 1 mL vials), NDC 0143-9620-10 (10 x 10 mL vials), NDC

0143-9619-10 (10 x 30 mL vials)

Chemical family Product type

Not available.Not available.

**Container information** 

(2 ml Vial, amps etc)

2 mL amber glass vial, 10 mL amber glass vial, 30 mL amber glass vial.

**Identified uses** 

: Cyanocobalamin is indicated for vitamin B12 deficiencies due to malabsorption which may be associated with the following conditions:

Addisonian (pernicious) anemia

Gastrointestinal pathology, dysfunction, or surgery, including gluten enteropathy or

sprue, small bowel bacteria overgrowth, total or partial gastrectomy

Fish tapeworm infestation

Malignancy of pancreas or bowel

Folic acid deficiency

It may be possible to treat the underlying disease by surgical correction of anatomic lesions leading to small bowel bacterial overgrowth, expulsion of fish tapeworm, discontinuation of drugs leading to vitamin malabsorption, use of a gluten-free diet in nontropical sprue, or administration of antibiotics in tropical sprue. Such measures

remove the need for long-term administration of cyanocobalamin.

Requirements of vitamin B12 in excess of normal (due to pregnancy, thyrotoxicosis, hemolytic anemia, hemorrhage, malignancy, hepatic and renal disease) can usually be

met with oral supplementation.

Cyanocobalamin Injection, USP is also suitable for the vitamin B12 absorption test

(Schilling test).

Supplier's details

: West-Ward Pharmaceuticals Corp.

465 Industrial Way West Eatontown NJ 07724 USA

Emergency telephone number (with hours of operation) : CHEMTREC, U.S.: 1-800-424-9300 International: +1-703-527-3887

24/7

## Section 2. Hazards identification

**OSHA/HCS** status

: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture

: Not classified.

**GHS label elements** 

Signal word : No signal word.

**Hazard statements** : No known significant effects or critical hazards.





## Section 2. Hazards identification

#### **Precautionary statements**

Prevention : Not applicable.
Response : Not applicable.
Storage : Not applicable.
Disposal : Not applicable.
Hazards not otherwise : None known.

classified

Hazards not otherwise

: None known.

Section 3. Composition/information on ingredients

## classified (HNOC)

Substance/mixture : Mixture
Other means of : Not available.

identification

#### **CAS** number/other identifiers

**CAS number** : Not applicable.

Product code : NDC 0143-9621-25 (25 x 1 mL vials), NDC 0143-9620-10 (10 x 10 mL vials), NDC

0143-9619-10 (10 x 30 mL vials)

Ingredient name	%	CAS number
Water	90 - 100	7732-18-5
Benzyl alcohol	1 - 3	100-51-6
Sodium chloride	0.3 - 1	7647-14-5
Sodium hydroxide	0 - 0.1	1310-73-2
Hydrochloric acid	0 - 0.1	7647-01-0
Cyanocobalamin	0 - 0.1	68-19-9

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

## **Description of necessary first aid measures**

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Get medical attention if irritation

occurs.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get

medical attention if symptoms occur.

**Skin contact**: Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is

comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

## Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.





## Section 4. First aid measures

**Ingestion** : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

: None known.

Specific hazards arising from the chemical

: No specific fire or explosion hazard.

Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide

Special protective actions for fire-fighters

: No special measures are required.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders :

: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## Methods and materials for containment and cleaning up





## Section 6. Accidental release measures

#### **Small spill**

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### Large spill

: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** 

Advice on general occupational hygiene

- : Put on appropriate personal protective equipment (see Section 8).
- : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating. drinking and smoking. See also Section 8 for additional information on hygiene measures.

# including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

### **Control parameters**

Occupational exposure limits

Ingredient name	Exposure limits
Benzyl alcohol	AIHA WEEL (United States, 10/2011). TWA: 10 ppm 8 hours.

#### **Appropriate engineering** controls

**Environmental exposure** 

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

#### **Individual protection measures**

**Hygiene measures** 

controls

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

#### Skin protection





# Section 8. Exposure controls/personal protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is

necessary.

**Body protection**: Personal protective equipment for the body should be selected based on the task being

performed and the risks involved and should be approved by a specialist before

handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected

based on the task being performed and the risks involved and should be approved by a

specialist before handling this product.

**Respiratory protection**: Based on the hazard and potential for exposure, select a respirator that meets the

appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important

aspects of use.

# Section 9. Physical and chemical properties

**Appearance** 

Physical state : Liquid.

Color : Clear. Red.
Odor : Not available.

Odor threshold : Not available.

**pH** : 4.5 to 7

Melting point: Not available.Boiling point: Not available.Flash point: Not available.Evaporation rate: Not available.Flammability (solid, gas): Not available.

Lower and upper explosive

(flammable) limits

: Not available.

Vapor pressure: Not available.Vapor density: Not available.Relative density: Not available.Solubility in water: Not available.

Partition coefficient: n-

octanol/water

: Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not available.

## Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

**Possibility of hazardous** 

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.





# Section 10. Stability and reactivity

**Incompatible materials**: Not available.

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **Section 11. Toxicological information**

### Information on toxicological effects

## **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Benzyl alcohol	LD50 Dermal LD50 Oral		2000 mg/kg 1230 mg/kg	-

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Benzyl alcohol	Skin - Mild irritant Skin - Moderate irritant Skin - Moderate irritant	Man Pig Rabbit	-	48 hours 16 mg 100 % 24 hours 100 mg	- - -

#### **Sensitization**

There is no data available.

#### **Mutagenicity**

There is no data available.

#### **Carcinogenicity**

There is no data available.

### **Reproductive toxicity**

There is no data available.

#### **Teratogenicity**

There is no data available.

## Specific target organ toxicity (single exposure)

There is no data available.

#### Specific target organ toxicity (repeated exposure)

There is no data available.

#### **Aspiration hazard**

There is no data available.

# Information on the likely routes of exposure

: Dermal contact. Eye contact. Inhalation. Ingestion.

### Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.





# **Section 11. Toxicological information**

Skin contactIngestionNo known significant effects or critical hazards.No known significant effects or critical hazards.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate

: No known significant effects or critical hazards.

effects

Potential delayed effects : No known significant effects or critical hazards.

**Long term exposure** 

**Potential immediate** : No known significant effects or critical hazards.

effects

Potential delayed effects : No known significant effects or critical hazards.

Potential chronic health effects

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Route	ATE value
Oral Inhalation (vapors)	82000 mg/kg 733.3 mg/L

# **Section 12. Ecological information**

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Benzyl alcohol	Acute LC50 460000 μg/L Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours

#### Persistence and degradability

There is no data available.

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Benzyl alcohol	0.87	-	low

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.





# Section 12. Ecological information

Other adverse effects

: No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **Section 14. Transport information**

	DOT	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

**AERG**: Not applicable.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL and the IBC Code

: Not available.

## Section 15. Regulatory information

U.S. Federal regulations

: TSCA 8(a) CDR Exempt/Partial exemption: Not determined United States inventory (TSCA 8b): All components are listed or exempted. Clean Water Act (CWA) 311: Sodium hydroxide; Hydrochloric acid

Clean Air Act Section 112 (b) Hazardous Air

Listed

**Pollutants (HAPs)** 





# Section 15. Regulatory information

Clean Air Act Section 602

Class I Substances

: Not listed

Clean Air Act Section 602

**Class II Substances** 

: Not listed

**DEA List I Chemicals** 

: Not listed

(Precursor Chemicals)

**DEA List II Chemicals** 

: Not listed

(Essential Chemicals)

**SARA 302/304** 

## **Composition/information on ingredients**

Ī				SARA 302 TPQ		SARA 304 RQ	
	Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
	Hydrochloric acid	≤0.1	Yes.	500	-	5000	-

**SARA 304 RQ** : 50000000 lbs / 22700000 kg [5982944.8 gal / 22647909.8 L]

**SARA 311/312** 

Classification : Not applicable.

## Composition/information on ingredients

Name	%	hazard	Sudden release of pressure		(acute) health	Delayed (chronic) health hazard
Benzyl alcohol	≥1 - ≤3	No.	No.	No.	Yes.	No.

#### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	Cyanocobalamin	68-19-9	≤0.3
Supplier notification	Cyanocobalamin	68-19-9	≤0.3

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

#### **State regulations**

**Massachusetts** : The following components are listed: Benzyl alcohol

**New York** : None of the components are listed. **New Jersey** : None of the components are listed.

**Pennsylvania** : The following components are listed: Benzyl alcohol

California Prop. 65

No products were found.





# **Section 16. Other information**

**History** 

Date of issue mm/dd/yyyy : 03/15/2016

Version : 1

Prepared by : KMK Regulatory Services Inc.

Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as

modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



Issuing Date January 5, 2015 Revision Date New Revision Number 0

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier** 

Product Name Dispatch® Hospital Cleaner Disinfectant Towels with Bleach

Other means of identification

**EPA Registration Number** 56392-8

Recommended use of the chemical and restrictions on use

Recommended use Moistened disinfecting bleach wipes

Uses advised against No information available

Details of the supplier of the safety data sheet

**Supplier Address** 

Clorox Professional Products Company 1221 Broadway Oakland, CA 94612

Phone: 1-510-271-7000

**Emergency telephone number** 

**Emergency Phone Numbers** For Medical Emergencies call: 1-800-446-1014

For Transportation Emergencies, call Chemtrec: 1-800-424-9300

#### 2. HAZARDS IDENTIFICATION

#### Classification

This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

#### GHS Label elements, including precautionary statements

#### **Emergency Overview**

This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Appearance Clear, colorless liquid

**Physical State** Thin liquid absorbed into non-woven wipes

Odor Fruity, floral, bleach

absorbed into white, non-woven wipes non-

## **Precautionary Statements - Prevention**

None

#### **Precautionary Statements - Response**

None

### **Precautionary Statements - Storage**

None

#### **Precautionary Statements - Disposal**

None

#### **Hazards not otherwise classified (HNOC)**

Not applicable

### **Unknown Toxicity**

21.8% of the mixture consists of ingredient(s) of unknown toxicity

#### Other information

No information available

## **Interactions with Other Chemicals**

Reacts with ammonia or acids such as vinegar, rust removers, or toilet bowl cleaners to produce hazardous gases, such as chlorine and other chlorinated compounds.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

This product contains no substances that at their given concentrations are considered to be hazardous to health.

#### 4. FIRST AID MEASURES

First aid measures

**General Advice** Show this safety data sheet to the doctor in attendance.

**Eye Contact** Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. If present, remove

contact lenses after the first 5 minutes of rinsing, then continue rinsing eye. Call a poison

control center or doctor for further treatment advice.

**Skin Contact** Rinse skin with plenty of water. If irritation persists, call a doctor.

**Inhalation** Move to fresh air. If breathing problems develop, call a doctor.

**Ingestion** Drink a glassful of water. Call a doctor or poison control center.

Most important symptoms and effects, both acute and delayed

**Most Important Symptoms and** 

**Effects** 

Liquid may cause eye irritation.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

## **Unsuitable Extinguishing Media**

CAUTION: Use of water spray when fighting fire may be inefficient.

#### **Specific Hazards Arising from the Chemical**

#### **Hazardous Combustion Products**

Oxides of carbon.

#### **Explosion Data**

Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge No.

## Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid contact with eyes.

**Other Information** Refer to protective measures listed in Sections 7 and 8.

**Environmental precautions** 

**Environmental Precautions** See Section 12 for additional ecological information.

#### Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary

treatment facility in advance to assure ability to process washed-down material.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

eyes, skin, and clothing. Do not eat, drink, or smoke when using this product.

#### Conditions for safe storage, including any incompatibilities

**Storage** Keep containers tightly closed in a dry, cool, and well-ventilated place.

**Incompatible Products**Ammonia or acids such as vinegar, rust removers, or toilet bowl cleaners.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

**Exposure Guidelines**This product does not contain any ingredients with occupational exposure limits that are at

concentrations below their cut-off values/concentrations and that contribute to the hazard

classification of the product.

### Appropriate engineering controls

Engineering Measures Showers

Eyewash stations Ventilation systems

#### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** No special protective equipment required.

**Skin and Body Protection**No special protective equipment required.

Respiratory Protection No protective equipment is needed under normal use conditions. If irritation is experienced,

ventilation and evacuation may be required.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### **Physical and Chemical Properties**

**Physical State** Liquid absorbed into non-woven wipes

Odor **Appearance** Clear, thin liquid absorbed into Fruity, floral, bleach

non-woven wipes

Color Colorless liquid - white non-woven **Odor Threshold** No information available

None known

None known

wipes

**Property Values** Remarks/ Method 12 - 12.5 (liquid) Hq None known

Melting/freezing point No data available None known Boiling point / boiling range No data available None known Flash Point No data available None known **Evaporation rate** No data available None known Flammability (solid, gas) No data available None known

Flammability Limits in Air **Upper flammability limit** No data available None known Lower flammability limit No data available None known Vapor pressure No data available None known Vapor density No data available None known **Specific Gravity** ~1.0 (liquid) None known Water Solubility Complete (liquid) None known Solubility in other solvents No data available None known Partition coefficient: n-octanol/waterNo data available None known **Autoignition temperature** No data available None known **Decomposition temperature** No data available None known

No data available

Dynamic viscosity No data available **Explosive Properties** Not explosive **Oxidizing Properties** No data available

**Other Information** 

Kinematic viscosity

**Softening Point** No data available **VOC Content (%)** No data available **Particle Size** No data available **Particle Size Distribution** No data available

## 10. STABILITY AND REACTIVITY

#### Reactivity

Reacts with ammonia or acids such as vinegar, rust removers, or toilet bowl cleaners to produce hazardous gases, such as chlorine and other chlorinated compounds.

#### **Chemical stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

#### **Conditions to avoid**

None known based on information supplied.

#### **Incompatible materials**

Ammonia or acids such as vinegar, rust removers, or toilet bowl cleaners.

#### **Hazardous Decomposition Products**

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Product Information

**Inhalation** Exposure to vapor or mist may irritate respiratory tract.

**Eye Contact** Liquid may cause irritation.

**Skin Contact** Liquid may cause slight irritation.

**Ingestion** Ingestion of liquid may cause slight irritation to mucous membranes and gastrointestinal tract.

#### **Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium hypochlorite 7681-52-9	8200 mg/kg (Rat)	>10000 mg/kg (Rabbit)	-

#### Information on toxicological effects

**Symptoms** Liquid may cause redness and tearing of eyes.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Sensitization** No information available.

Mutagenic Effects No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium hypochlorite 7681-52-9	-	Group 3	-	-

IARC (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

Reproductive Toxicity No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure**No information available.

**Chronic Toxicity** No known effect based on information supplied.

Target Organ Effects Respiratory system, eyes, skin, gastrointestinal tract (GI).

Aspiration Hazard No information available.

#### **Numerical measures of toxicity - Product Information**

The following values are calculated based on chapter 3.1 of the GHS document

No information available.

#### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

No information available.

#### Persistence and Degradability

No information available.

#### **Bioaccumulation**

No information available.

### Other adverse effects

No information available.

## 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Dispose of in accordance with all applicable federal, state, and local regulations.

#### **Contaminated Packaging**

Do not reuse empty containers. Dispose of in accordance with all applicable federal, state, and local regulations.

## 14. TRANSPORT INFORMATION

**DOT** Not regulated.

TDG Not regulated.

ICAO Not regulated.

IATA Not regulated

IMDG/IMO Not regulated

## 15. REGULATORY INFORMATION

### **Chemical Inventories**

TSCA All components of this product are either on the TSCA 8(b) Inventory or otherwise exempt from

listina.

**DSL/NDSL** All components are on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

#### **U.S. Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

## SARA 311/312 Hazard Categories

Acute Health HazardNoChronic Health HazardNoFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

#### **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hypochlorite 7681-52-9	100 lb			X
Sodium hydroxide 1310-73-2	1000 lb			X

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Sodium hypochlorite 7681-52-9	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ
Sodium hydroxide 1310-73-2	1000 lb	-	RQ 1000 lb final RQ RQ 454 kg final RQ

### **EPA Statement**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**CAUTION:** Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

### **US State Regulations**

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals:

Chemical Name	California Prop. 65
DuPont Nonwoven Fabric - N/A152	Contains titanium dioxide

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Sodium hypochlorite 7681-52-9	Х	Х	Х	Х	
Sodium hydroxide 1310-73-2	X	Х	X	Х	

## **International Regulations**

Canada

**WHMIS Hazard Class** 

Non-controlled

16	OTHER	INFOR	₽ΜΔ	TION

NFPA Health Hazard 1 Flammability 0 Instability 1 Physical and Chemical Hazards none

HMIS Health Hazard 1 Flammability 0 Physical Hazard 1 Personal Protection A

Prepared By Product Stewardship

23 British American Blvd. Latham, NY 12110 1-800-572-6501

Preparation/Revision Date January 5, 2015

Revision Note New

**Reference** 1204996/158610.001

### **General Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 



A Pfizer Company

Revision date: 03-Nov-2016 Version: 1.0 Page 1 of 10

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Identifier

Material Name: Epinephrine Injection (Hospira, Inc.)

Trade Name: Not applicable Chemical Family: Not determined

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Intended Use: Pharmaceutical product used for allergic reactions (anaphylaxis)

**Details of the Supplier of the Safety Data Sheet** 

Hospira, A Pfizer Company 275 North Field Drive Lake Forest, Illinois 60045

1-800-879-3477

Emergency telephone number:

CHEMTREC (24 hours): 1-800-424-9300 Contact E-Mail: pfizer-MSDS@pfizer.com **Hospira UK Limited** 

Horizon Honey Lane Hurley

Maidenhead, SL6 6RJ United Kingdom

**Emergency telephone number:** 

International CHEMTREC (24 hours): +1-703-527-3887

#### 2. HAZARDS IDENTIFICATION

**Classification of the Substance or Mixture** 

GHS - Classification Not classified as hazardous

**Label Elements** 

Signal Word: Not Classified

Hazard Statements: Not classified in accordance with international standards for workplace safety.

Other Hazards An Occupational Exposure Value has been established for one or more of the ingredients (see

Section 8).

**Note:** This document has been prepared in accordance with standards for workplace safety, which

requires the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warning included may not apply in all cases.

Your needs may vary depending upon the potential for exposure in your workplace.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Hazardous** 

Material Name: Epinephrine Injection (Hospira, Inc.) Page 2 of 10 Revision date: 03-Nov-2016 Version: 1.0

Ingredient	CAS Number	EU EINECS/ELINCS List	GHS Classification	%
Epinephrine	51-43-4	200-098-7	Acute Tox. 2 (H300) Acute Tox. 2 (H310)	1.0
Sodium bisulfite	7631-90-5	231-548-0	Acute Tox. 4 (H302)	<2.0
HYDROCHLORIC ACID	7647-01-0	231-595-7	Skin Corr.1B (H314) STOT SE 3 (H335)	**
Sodium chloride	7647-14-5	231-598-3	Not Listed	*

Ingredient	CAS Number	EU EINECS/ELINCS List	GHS Classification	%
Water for Injection	7732-18-5	231-791-2	Not Listed	*
Sodium citrate	68-04-2	200-675-3	Not Listed	*

\* Proprietary **Additional Information:** 

\*\* to adjust pH

Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety. In accordance with 29 CFR 1910.1200, the exact percentage composition of this

mixture has been withheld as a trade secret.

For the full text of the R phrases mentioned in this Section, see Section 16

### 4. FIRST AID MEASURES

**Description of First Aid Measures** 

Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention **Eye Contact:** 

immediately.

**Skin Contact:** Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek

medical attention.

Ingestion: Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not

induce vomiting unless directed by medical personnel. Seek medical attention immediately.

Inhalation: Remove to fresh air and keep patient at rest. Seek medical attention immediately.

Most Important Symptoms and Effects, Both Acute and Delayed

For information on potential signs and symptoms of exposure, See Section 2 - Hazards Symptoms and Effects of

Identification and/or Section 11 - Toxicological Information. Exposure: None known

**Medical Conditions** 

Aggravated by Exposure:

Indication of the Immediate Medical Attention and Special Treatment Needed

Notes to Physician: None

## 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** Extinguish fires with CO2, extinguishing powder, foam, or water.

**Special Hazards Arising from the Substance or Mixture** 

**Hazardous Combustion** 

Products:

Formation of toxic gases is possible during heating or fire.

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#### **SAFETY DATA SHEET**

Material Name: Epinephrine Injection (Hospira, Inc.)

Revision date: 03-Nov-2016 Version: 1.0

Fire / Explosion Hazards: Fine particles (such as dust and mists) may fuel fires/explosions.

#### **Advice for Fire-Fighters**

During all fire fighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment and Emergency Procedures

Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.

#### **Environmental Precautions**

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

#### Methods and Material for Containment and Cleaning Up

Measures for Cleaning /

Collecting:

Contain the source of spill if it is safe to do so. Collect spilled material by a method that controls dust generation. A damp cloth or a filtered vacuum should be used to clean spills of dry solids. Clean spill area thoroughly.

**Additional Consideration for** 

Large Spills:

Non-essential personnel should be evacuated from affected area. Report emergency

situations immediately. Clean up operations should only be undertaken by trained personnel.

#### 7. HANDLING AND STORAGE

#### **Precautions for Safe Handling**

Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. When handling, use appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. Releases to the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of process emissions of this material to the atmosphere should be controlled with dust collectors. HEPA filtration systems or other equivalent controls.

## Conditions for Safe Storage, Including any Incompatibilities

Store as directed by product packaging. Storage Conditions:

Specific end use(s): Pharmaceutical drug product

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Control Parameters**

Refer to available public information for specific member state Occupational Exposure Limits.

#### Sodium bisulfite

ACGIH Threshold Limit Value (TWA)	5 mg/m <sup>3</sup>
Australia TWA	5 mg/m <sup>3</sup>
Belgium OEL - TWA	5 mg/m <sup>3</sup>
Denmark OEL - TWA	5 mg/m <sup>3</sup>
France OEL - TWA	5 mg/m <sup>3</sup>
Greece OEL - TWA	5 mg/m <sup>3</sup>
Ireland OEL - TWAs	5 mg/m <sup>3</sup>
Portugal OEL - TWA	5 mg/m <sup>3</sup>
Spain OEL - TWA	5 mg/m <sup>3</sup>
Switzerland OEL -TWAs	5 mg/m <sup>3</sup>
Vietnam OEL - TWAs	5 mg/m <sup>3</sup>

#### HYDROCHLORIC ACID

**ACGIH Ceiling Threshold Limit:** 2 ppm

Material Name: Epinephrine Injection (Hospira, Inc.)

Revision date: 03-Nov-2016

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8.	EXPOSURE CONTRO	ILS / PERSONAL PROTECTION	
	Aatalla DEAL	F	

Australia PEAK	F nnm
Addition East	5 ppm 7.5 mg/m³
Austria OEL - MAKs	5 ppm
	8 mg/m <sup>3</sup>
Belgium OEL - TWA	5 ppm
Beigiam GEE - TVA	8 mg/m <sup>3</sup>
Deliverie OFI TIMA	<del>-</del>
Bulgaria OEL - TWA	5 ppm
	8.0 mg/m <sup>3</sup>
Cyprus OEL - TWA	5 ppm
	8 mg/m <sup>3</sup>
Czech Republic OEL - TWA	8 mg/m <sup>3</sup>
Estonia OEL - TWA	5 ppm
	8 mg/m <sup>3</sup>
Germany - TRGS 900 - TWAs	2 ppm
Germany - TRGS 900 - TWAS	
0 (0.50) 11116	3 mg/m <sup>3</sup>
Germany (DFG) - MAK	2 ppm
	3.0 mg/m <sup>3</sup>
Greece OEL - TWA	5 ppm
	7 mg/m <sup>3</sup>
Hungary OEL - TWA	8 mg/m <sup>3</sup>
Ireland OEL - TWAs	5 ppm
11010110 022 1177.0	8 mg/m <sup>3</sup>
Italy OEL - TWA	5 ppm
Italy OEL - TWA	
	8 mg/m <sup>3</sup>
Japan - OELs - Ceilings	2 ppm
	3.0 mg/m <sup>3</sup>
Latvia OEL - TWA	5 ppm
	8 mg/m <sup>3</sup>
Lithuania OEL - TWA	5 ppm
	8 mg/m <sup>3</sup>
Luxembourg OEL - TWA	5 ppm
<b>3</b>	8 mg/m <sup>3</sup>
Malta OEL - TWA	5 ppm
Maita OLL - 1 VVA	8 mg/m <sup>3</sup>
Notherlands OEL TWA	
Netherlands OEL - TWA	8 mg/m³
Poland OEL - TWA	5 mg/m <sup>3</sup>
Portugal OEL - TWA	5 ppm
	8 mg/m <sup>3</sup>
Romania OEL - TWA	5 ppm
	8 mg/m <sup>3</sup>
Slovakia OEL - TWA	5 ppm
	8.0 mg/m <sup>3</sup>
Slovenia OEL - TWA	5 ppm
Giovenia GEE - TWA	8 mg/m <sup>3</sup>
Spain OEL - TWA	5 ppm
Spain OEL - IWA	
0. 14 - 1 - 1 051 - 7144	7.6 mg/m <sup>3</sup>
Switzerland OEL -TWAs	2 ppm
	3.0 mg/m <sup>3</sup>
Vietnam OEL - TWAs	5 mg/m³
Sodium chloride	
Latvia OEL - TWA	5 mg/m <sup>3</sup>
Lithuania OEL - TWA	5 mg/m <sup>3</sup>
	<b>.</b>

Material Name: Epinephrine Injection (Hospira, Inc.)

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Epinephrine** 

Pfizer Occupational Exposure OEB 4 - Skin (control exposure to the range of 1ug/m³ to <10ug/m³, provide additional

precautions to protect from skin contact)

Band (OEB):

**Exposure Controls** 

**Engineering Controls:** Engineering controls should be used as the primary means to control exposures. General

room ventilation is adequate unless the process generates dust, mist or fumes. Keep airborne

contamination levels below the exposure limits listed above in this section.

**Personal Protective** 

Equipment:

Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE). Contact your safety and health professional or safety equipment supplier for assistance in selecting the correct protective clothing/equipment based on an assessment of the workplace conditions, other chemicals used or present in the workplace and

specific operational processes.

Hands: Impervious disposable gloves (e.g. Nitrile, etc.) (double recommended) if skin contact with drug

product is possible and for bulk processing operations. (Protective gloves must meet the

standards in accordance with EN374, ASTM F1001 or international equivalent.)

Eyes: Wear safety glasses or goggles if eye contact is possible. (Eye protection must meet the

standards in accordance with EN166, ANSI Z87.1 or international equivalent.)

**Skin:** Wear impervious protective clothing to prevent skin contact – consider use of disposable

clothing where appropriate. (Protective clothing must meet the standards in accordance with

EN13982, ANSI 103 or international equivalent.)

Respiratory protection: Under normal conditions of use, if the applicable Occupational Exposure Limit (OEL) is

exceeded, wear an appropriate respirator with a protection factor sufficient to control exposures to below the OEL (e.g. particulate respirator with a full mask, P3 filter). (Respirators must meet the standards in accordance with EN136, EN143, ASTM F2704-10 or international equivalent.)

**Molecular Weight:** 

Mixture

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:LiquidColor:Clear colorlessOdor:No data available.Odor Threshold:No data available.

Molecular Formula: Mixture

Solvent Solubility:

Water Solubility:

Solubility:

PH:

No data available

No data available

Soluble: Water

2.2-5.0

Melting/Freezing Point (°C):

Boiling Point (°C):

No data available.

No data available.

Partition Coefficient: (Method, pH, Endpoint, Value)

Epinephrine
No data available
Sodium bisulfite
No data available
Water for Injection
No data available
Sodium chloride

No data available

Sodium citrate

No data available

HYDROCHLORIC ACID

HYDROCHLORIC ACI

No data available

**Decomposition Temperature (°C):** No data available.

Material Name: Epinephrine Injection (Hospira, Inc.)

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\_\_\_\_\_

Evaporation Rate (Gram/s):

Vapor Pressure (kPa):

Vapor Density (g/ml):

Relative Density:

No data available

No data available

No data available

Specific Gravity: ~1

Viscosity: No data available

Flammablity:

Autoignition Temperature (Solid) (°C):

Flammability (Solids):

Flash Point (Liquid) (°C):

Upper Explosive Limits (Liquid) (% by Vol.):

Lower Explosive Limits (Liquid) (% by Vol.):

No data available

No data available

## 10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use.

**Possibility of Hazardous Reactions** 

Oxidizing Properties: No data available

**Conditions to Avoid:** Fine particles (such as dust and mists) may fuel fires/explosions. **Incompatible Materials:** As a precautionary measure, keep away from strong oxidizers

Hazardous Decomposition

**Products:** 

No data available

## 11. TOXICOLOGICAL INFORMATION

**Information on Toxicological Effects** 

General Information: The information included in this section describes the potential hazards of the individual

ingredients.

Short Term: May be absorbed through the skin and cause systemic effects. May be absorbed through

mucous membranes and cause systemic effects.

Known Clinical Effects: Adverse effects associated with therapeutic use include increased heart rate (tachycardia),

palpitations, sweating, nausea, vomiting, difficulty breathing, dizziness, weakness, headache,

anxiety, nervousness.

Acute Toxicity: (Species, Route, End Point, Dose)

**Epinephrine** 

Rat Dermal LD50 62 mg/kg Rat Oral LD50 30mg/kg

Sodium chloride

Rat Oral LD50 3000 mg/kg Mouse Oral LD50 4000 mg/kg

HYDROCHLORIC ACID

Rat Oral LD 50 238-277 mg/kg

Irritation / Sensitization: (Study Type, Species, Severity)

Sodium chloride

Material Name: Epinephrine Injection (Hospira, Inc.)

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## 11. TOXICOLOGICAL INFORMATION

Eye Irritation Rabbit Moderate Skin Irritation Rabbit Mild

#### Reproduction & Development Toxicity: (Duration, Species, Route, Dose, End Point, Effect(s))

**Epinephrine** 

Embryo / Fetal Development Rat Intravenous Dose not specified Not teratogenic

Embryo / Fetal Development Rabbit Subcutaneous 30 times human dose LOAEL Developmental toxicity Embryo / Fetal Development Mouse Subcutaneous 7 times human dose LOAEL Developmental toxicity

## Genetic Toxicity: (Study Type, Cell Type/Organism, Result)

**Epinephrine** 

Bacterial Mutagenicity (Ames) Salmonella Negative Sister Chromatid Exchange Negative with activation

Sister Chromatid Exchange Chinese Hamster Ovary (CHO) cells Equivocal without activation

HYDROCHLORIC ACID

Bacterial Mutagenicity (Ames) Salmonella Negative

In Vivo Micronucleus Rat Negative

Carcinogen Status: None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

Sodium bisulfite

IARC: Group 3 (Not Classifiable)

HYDROCHLORIC ACID

IARC: Group 3 (Not Classifiable)

## 12. ECOLOGICAL INFORMATION

**Environmental Overview:** Environmental properties have not been investigated. Releases to the environment should be

avoided.

Toxicity: No data available

Persistence and Degradability: No data available

Bio-accumulative Potential: No data available

Mobility in Soil: No data available

Material Name: Epinephrine Injection (Hospira, Inc.)

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## 13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Dispose of waste in accordance with all applicable laws and regulations. Member State

specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental

releases. This may include destructive techniques for waste and wastewater.

Additonal Information: The US Federal EPA waste listing for epinephrine does not include epinephrine salts. Disposal

should be performed in accordance with all federal, state, and local regulatory requirements.

**Epinephrine** 

RCRA - P Series Wastes Listed

#### 14. TRANSPORT INFORMATION

The following refers to all modes of transportation unless specified below.

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

## 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

### **Epinephrine**

**CERCLA/SARA 313 Emission reporting** Not Listed **CERCLA/SARA Hazardous Substances** 1000 lb and their Reportable Quantities: 454 kg **California Proposition 65** Not Listed Inventory - United States TSCA - Sect. 8(b) Present Australia (AICS): Present Standard for the Uniform Scheduling Schedule 3 for Drugs and Poisons: Schedule 4 **EU EINECS/ELINCS List** 200-098-7

Sodium bisulfite

CERCLA/SARA 313 Emission reporting

CERCLA/SARA Hazardous Substances

and their Reportable Quantities:

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Present

2270 kg

Not Listed

Present

231-548-0

#### **SAFETY DATA SHEET**

5000 lb

Material Name: Epinephrine Injection (Hospira, Inc.)

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# 15. REGULATORY INFORMATION

# Water for Injection

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

REACH - Annex IV - Exemptions from the

Not Listed

Not Listed

Not Listed

Not Listed

Present

obligations of Register:
EU EINECS/ELINCS List 231-791-2

HYDROCHLORIC ACID

CERCLA/SARA 313 Emission reporting 1.0 %
CERCLA/SARA Hazardous Substances 5000 lb and their Reportable Quantities: 2270 kg
CERCLA/SARA - Section 302 Extremely Hazardous 500 lb

**TPQs** 

CERCLA/SARA - Section 302 Extremely Hazardous

**Substances EPCRA RQs** 

California Proposition 65
Inventory - United States TSCA - Sect. 8(b)
Australia (AICS):
Present
Standard for the Uniform Scheduling
for Drugs and Poisons:
Schedule 6
EU EINECS/ELINCS List
Not Listed
Present
Schedule 5
Schedule 6
231-595-7

Sodium chloride

CERCLA/SARA 313 Emission reporting

California Proposition 65
Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

EU EINECS/ELINCS List

Not Listed
Not Listed
Not Listed
Present
231-598-3

Sodium citrate

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Not

# **16. OTHER INFORMATION**

### Text of CLP/GHS Classification abbreviations mentioned in Section 3

Acute toxicity, oral-Cat.4; H302 - Harmful if swallowed Acute toxicity, oral-Cat.2; H300 - Fatal if swallowed

Acute toxicity, dermal-Cat.2; H310 - Fatal in contact with skin

Skin corrosion/irritation-Cat.1B; H314 - Causes severe skin burns and eye damage

Specific target organ toxicity, single exposure; Respiratory tract irritation-Cat.3; H335 - May cause respiratory irritation

**Data Sources:** Safety data sheets for individual ingredients. Publicly available toxicity information.

Reasons for Revision: New data sheet.

# **SAFETY DATA SHEET**

Material Name: Epinephrine Injection (Hospira, Inc.)

Revision date: 03-Nov-2016

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Version: 1.0

Revision date: 03-Nov-2016

Prepared by:

Product Stewardship Hazard Communication
Pfizer Global Environment, Health, and Safety Operations

Pfizer Inc believes that the information contained in this Material Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

**End of Safety Data Sheet** 

Supersedes: 08/01/2002 Revision date: 06/11/2013 Version: 1.1



# EPIPEN® AND EPIPEN® JR

# SAFETY DATA SHEET

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

# 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

### **Product Identifier**

Product Name: EpiPen® and EpiPen® Jr Synonyms: Epinephrine Auto-Injector Intended Use Of The Product

Pharmaceutical. For emergency treatment of severe allergic reaction or anaphylaxis. Use only as directed. Refer to product insert for usage instructions and product information.

# Name, Address, And Telephone Of The Responsible Party

Supplier: Manufacturer:

Mylan Specialty L.P. Meridian Medical Technologies,

110 Allen Road a Pfizer company

Basking Ridge, NJ 07920, USA Columbia, MD 21046 U.S.A

www.mylanspecialty.com

+1 877-446-3679

### **Emergency Telephone Number**

Emergency Number : 877-446-3679

# 2. HAZARDS IDENTIFICATION

**Patients/Consumers:** Please refer to the product information insert or product label for appropriate consumer-specific information about this product when used according to the physician's directions. Pharmaceutical Agent – Handling of this product in its final form presents minimal occupational exposure risk.

### **Classification Of The Substance Or Mixture**

Classification (GHS-US)

Not classified

**Label Elements** 

GHS-US Labeling Not applicable Other Hazards Not available

Unknown Acute Toxicity (GHS US) Not available

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

# **Mixture**

Name	Product Identifier	% (w/w)	Classification (GHS-US)
Water	(CAS No.) 7732-18-5	99.13 - 99.18	Not classified
Sodium chloride	(CAS No.) 7647-14-5	0.6	Eye Irrit. 2A, H319
Sodium metabisulfite	(CAS No.) 7681-57-4	0.167	Acute Tox. 4 (Oral), H302
			Eye Dam. 1, H318
			Resp. Sens. 1B, H334
			Skin Sens. 1B, H317
Epinephrine	(CAS No.) 51-43-4	0.05 - 0.1	Acute Tox. 2 (Dermal), H310
			Muta. 2, H341

Full text of H-phrases: see section 16

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#### 4.

#### FIRST AID MEASURES

#### **Description Of First Aid Measures**

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show label if possible).

**Inhalation:** The risk of inhalation exposure is negligible when product is in its final packaged form. If exposed and become symptomatic, move to fresh air and get medical attention if symptoms persist.

**Skin Contact:** Basic hygiene and appropriate precautions should prevent skin contact. If skin contact occurs, wash affected area with soap and water for at least 15 minutes. Should skin irritation, allergic reaction, or rash occur, remove contaminated clothing (if required) and seek medical advice.

**Eye Contact:** The risk of eye exposure is negligible when product is in its final packaged form. If eye contact occurs, flush immediately with water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

**Ingestion:** Ingestion is not an anticipated route of exposure. If accidental ingestion occurs, flush mouth out with water and get medical attention.

### Most Important Symptoms And Effects Both Acute and Delayed

**General:** Effects reported during consumer use include palpitations, tachycardia, sweating, nausea, vomiting, respiratory difficulty, pallor, dizziness, weakness, tremor, headache, apprehension, nervousness and anxiety.

**Inhalation:** Inhalation of vapor and/or mist may cause respiratory irritation and sensitization.

**Skin Contact:** May cause skin irritation and sensitization. This product contains sodium metabisulfite, a sulfite that may cause allergic-type reactions.

Eye Contact: May cause eye irritation.

**Ingestion:** May cause nausea, vomiting and diarrhea.

**Injection:** Epinephrine is a strong vasoconstrictor; therefore accidental injection into the digits, hands or feet may result in loss of blood flow to the affected area. Large doses or accidental intravenous injection may result in cerebral hemorrhage due to sharp rise in blood pressure. This product contains sodium metabisulfite, a sulfite that may cause allergic-type reactions.

# Indication Of Any Immediate Medical Attention And Special Treatment Needed

If exposed or concerned, get medical advice and attention. In the event of accidental injection, go immediately to the nearest emergency room.

### 5.

# FIREFIGHTING MEASURES

# **Extinguishing Media**

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use a heavy water stream.

### **Special Hazards Arising From The Substance Or Mixture**

Fire Hazard: Not flammable

Explosion Hazard: Product is not explosive

**Reactivity:** Hazardous reactions will not occur under normal conditions.

# **Advice For Firefighters**

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Not available

Other Information: Refer to Section 9 for flammability properties.

# 6.

### ACCIDENTAL RELEASE MEASURES

# Personal Precautions, Protective Equipment And Emergency Procedures

General Measures: Avoid all eye and skin contact and do not breathe vapor and mist.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

**For Emergency Personnel** 

**Protective Equipment:** Equip cleanup crew with proper protection.

### **Environmental Precautions**

Prevent entry to sewers and public waters.

# Methods And Material For Containment And Cleaning Up

**Methods For Cleaning Up:** For small quantities associated with normal therapeutic use, collect spillage and transfer to a closed waste container for disposal. For large or bulk quantities, after absorption with inert material, collect spillage by sweeping up spilled material and place in a labeled, sealed container for proper disposal.

# **Reference To Other Sections**

See Heading 8, Exposure Controls and Personal Protection.

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### HANDLING AND STORAGE

#### **Precautions For Safe Handling**

7.

Patients/Consumers: Patients should adhere to the instructions provided within the product information insert or product label for appropriate consumer-specific information about this product when used according to the physician's directions.

Hygiene Measures: This SDS is for a pharmaceutical agent – Handling of this product in its final form presents minimal occupational exposure risk. In an occupational setting, handle in accordance with good industrial hygiene and safety procedures. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use appropriate personal protective equipment when handling and observe good personal hygiene measures after handling.

# Conditions For Safe Storage, Including Any Incompatibilities

Storage Conditions: Keep container closed when not in use. Keep away from heat and direct sunlight. Do not refrigerate.

Storage Temperature: 20-25°C (68-77°F)

Special Rules on Packaging: Examine clear window of autoinjector unit periodically. Solution should be clear. If the solution is discolored or contains solid particles (precipitate), replace the unit.

### EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control Parameters**

Sodium metabisulfite (7681-57-4)		
USA ACGIH	ACGIH TWA (mg/m³)	5 mg/m³
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	5 mg/m³
Alberta	OEL TWA (mg/m³)	5 mg/m <sup>3</sup>
British Columbia	OEL TWA (mg/m³)	5 mg/m <sup>3</sup>
Manitoba	OEL TWA (mg/m³)	5 mg/m <sup>3</sup>
New Brunswick	OEL TWA (mg/m³)	5 mg/m <sup>3</sup>
New Foundland & Labrador	OEL TWA (mg/m³)	5 mg/m <sup>3</sup>
Nova Scotia	OEL TWA (mg/m³)	5 mg/m <sup>3</sup>
Nunavut	OEL STEL (mg/m³)	10 mg/m <sup>3</sup>
Nunavut	OEL TWA (mg/m³)	5 mg/m <sup>3</sup>
Northwest Territories	OEL STEL (mg/m³)	10 mg/m <sup>3</sup>
Northwest Territories	OEL TWA (mg/m³)	5 mg/m <sup>3</sup>
Ontario	OEL TWA (mg/m³)	5 mg/m <sup>3</sup>
Prince Edward Island	OEL TWA (mg/m³)	5 mg/m <sup>3</sup>
Québec	VEMP (mg/m³)	5 mg/m <sup>3</sup>
Saskatchewan	OEL STEL (mg/m³)	10 mg/m <sup>3</sup>
Saskatchewan	OEL TWA (mg/m³)	5 mg/m³

### **Exposure Controls**

9.

Appropriate Engineering Controls: Not generally required. Site-specific risk assessments should be conducted to determine the appropriate exposure control measures. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

Personal Protective Equipment: Not generally required when using this product. The use of personal protective equipment may be necessary as conditions warrant.

Hand Protection: Not required for normal conditions of use.

Eve Protection: In laboratory, medical or industrial settings, or operations in which airborne particulates will be generated, safety glasses with side shields are recommended.

Skin and Body Protection: In laboratory, medical or industrial settings, impervious disposable gloves and protective clothing are recommended if skin contact with drug product is possible.

Respiratory Protection: When manufacturing or handling product in large quantities and dusts or particulates may be generated, maintain airborne concentrations below recommended limits. Workplace risk assessments should be completed before specifying and implementing respirator usage. NIOSH/MSHA approved respirators for protection should be used if respirators are found to be necessary.

# PHYSICAL AND CHEMICAL PROPERTIES

# **Information On Basic Physical And Chemical Properties**

Physical state Liquid Clear, Colorless **Appearance** Odor Odorless Odor threshold Not available 2.2 - 5Relative evaporation rate (butyl acetate=1) Not available **Melting point** Not available Freezing point Not available

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 $\approx 100^{\circ}\text{C} (212^{\circ}\text{F})$ **Boiling point** Flash point Not available **Auto-ignition temperature** Not available **Decomposition Temperature** Not available Flammability (solid, gas) Not available Lower flammable limit Not available Upper flammable limit Not available Vapor pressure Not available Not available Relative vapor density at 20 °C Relative density  $\approx 1$  (water=1) Specific gravity density Not available **Solubility** Soluble in water Log Pow Not available Not available Log Kow Viscosity, kinematic Not available Not available Viscosity, dynamic Explosion data - sensitivity to mechanical impact Not available Explosion data - sensitivity to static discharge Not available

# 10. STABILITY AND REACTIVITY

Reactivity Hazardous reactions will not occur under normal conditions.

**Chemical Stability** Stable under normal conditions.

Possibility Of Hazardous Reactions Hazardous polymerization will not occur.

<u>Conditions To Avoid</u> Direct sunlight. Extremely high or low temperatures. Epinephrine deteriorates rapidly on exposure to air or light.

<u>Incompatible Materials</u> Strong acids. Strong bases.

Hazardous Decomposition Products Not applicable

# 11. TOXICOLOGICAL INFORMATION

# Information On Toxicological Effects - Product Acute Toxicity Not classified LD50 and LC50 Data Not available

Aspiration hazard: Not classified

**Skin corrosion/irritation:** Not classified (pH: 2.2 – 5) **Serious eye damage/irritation:** Not classified (pH: 2.2 – 5) **Respiratory or skin sensitization:** Not classified

Germ cell mutagenicity: Not classified

**Teratogenicity:** Not classified **Carcinogenicity:** Not classified **Reproductive toxicity:** Not classified

**Specific target organ toxicity (single exposure):** Not classified **Specific target organ toxicity (repeated exposure):** Not classified

# **Information On Toxicological Effects - Ingredient(s)**

### LD50 and LC50 Data

Sodium chloride (7647-14-5)					
LD50 oral rat	3 g/kg				
LD50 dermal rabbit	> 10 g/kg				
LC50 inhalation rat (mg/l)	> 42 g/m³ (Exposure time: 1 h)				
ATE (oral) 3000 mg/kg					
Sodium metabisulfite (7681-57-4)	Sodium metabisulfite (7681-57-4)				
LD50 oral rat	1131 mg/kg				
LD50 dermal rat	> 2 g/kg				
ATE (oral)	1131 mg/kg				
Epinephrine (51-43-4)					
LD50 dermal rat	62 mg/kg				
ATE (dermal)	62 mg/kg				

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Sodium metabisulfite (76	81-57-4)
IARC group	3
12.	ECOLOGICAL INFORMATION

#### **Toxicity**

10111111			
Sodium chloride (7647-14-5)			
LC50 fish 1	5560 - 6080 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])		
EC50 Daphnia 1	1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)		
LC50 fish 2	12946 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])		
EC50 Daphnia 2	340.7 - 469.2 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])		
Sodium metabisulfite (7681-57-4)			
I 050 C 1 1	20 // (F) // 061 (G) // 1 // 11 // 12 // 13		

Sodium metabisuifite (7681-57-4)	)
LC50 fish 1	32 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	89 mg/l (Exposure time: 24 h - Species: Daphnia magna Straus)
EC50 other aquatic organisms 1	48 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)
EC50 other aquatic organisms 2	40 mg/l (Exposure time: 96 h - Species: Desmodesmus subspicatus)

### **Persistence And Degradability**

EpiPen® and EpiPen® Jr				
Persistence and degradability	Not established.			

### **Bioaccumulative Potential**

EpiPen® and EpiPen® Jr			
Bioaccumulative potential	Not established.		
Sodium chloride (7647-14-5)			
BCF fish 1	(no bioaccumulation)		
Sodium metabisulfite (7681-57-4)			
Log Pow	-3.7 (at 25 °C)		

13. DISPOSAL CONSIDERATIONS

Sewage Disposal Recommendations: Do not empty into drains.

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial,

territorial and international regulations. **Additional Information:** Contaminated sharps should be discarded immediately or as soon as possible in containers that are closable, puncture-resistant, leak proof on sides and bottoms, and appropriately labeled. Contact your local health department for referral to a Safe Syringe Disposal Program.

# 14. TRANSPORT INFORMATION

# In accordance with ICAO/IATA/DOT/TDG

UN Number Not regulated for transport

UN Proper Shipping Name Not regulated for transport

# 15. REGULATORY INFORMATION

# **US Federal regulations**

### Water (7732-18-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

# Sodium chloride (7647-14-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

# Sodium metabisulfite (7681-57-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

# Epinephrine (51-43-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

# **US State regulations**

### Sodium chloride (7647-14-5)

- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term

# Sodium metabisulfite (7681-57-4)

- U.S. Connecticut Hazardous Air Pollutants HLVs (30 min)
- U.S. Connecticut Hazardous Air Pollutants HLVs (8 hr)
- U.S. Hawaii Occupational Exposure Limits TWAs
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations

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- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Emission Levels (ELs)
- U.S. Massachusetts Right To Know List
- U.S. Michigan Occupational Exposure Limits TWAs
- U.S. Minnesota Hazardous Substance List
- U.S. Minnesota Permissible Exposure Limits TWAs
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) 24-Hour
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) Annual
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New Jersey Special Health Hazards Substances List
- U.S. North Dakota Air Pollutants Guideline Concentrations 8-Hour
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Tennessee Occupational Exposure Limits TWAs
- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term
- U.S. Vermont Permissible Exposure Limits TWAs
- U.S. Washington Permissible Exposure Limits STELs
- U.S. Washington Permissible Exposure Limits TWAs
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 25 Feet to Less Than 40 Feet
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 40 Feet to Less Than 75 Feet
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights 75 Feet or Greater
- U.S. Wisconsin Hazardous Air Contaminants All Sources Emissions From Stack Heights Less Than 25 Feet

### Epinephrine (51-43-4)

- U.S. Colorado Hazardous Wastes Discarded Chemical Products, Off-Specification Species, Container and Spill Residues
- U.S. Delaware Pollutant Discharge Requirements Reportable Quantities
- U.S. Louisiana Reportable Quantity List for Pollutants
- U.S. Massachusetts Oil & Hazardous Material List Groundwater Reportable Concentration Reporting Category 1
- U.S. Massachusetts Oil & Hazardous Material List Groundwater Reportable Concentration Reporting Category 2
- U.S. Massachusetts Oil & Hazardous Material List Reportable Quantity
- U.S. Massachusetts Oil & Hazardous Material List Soil Reportable Concentration Reporting Category 1
- $U.S. Massachusetts Oil \ \& \ Hazardous \ Material \ List Soil \ Reportable \ Concentration Reporting \ Category \ 2$
- U.S. Massachusetts Right To Know List
- U.S. Massachusetts Toxics Use Reduction Act
- U.S. Michigan Polluting Materials List
- U.S. Nebraska "P" Listed Hazardous Wastes
- U.S. New Jersey Discharge Prevention List of Hazardous Substances
- U.S. New York Reporting of Releases Part 597 List of Hazardous Substances
- U.S. North Dakota Hazardous Wastes Discarded Chemical Products, Off-Specification Species, Container and Spill Residues
- U.S. Pennsylvania RTK (Right to Know) Environmental Hazard List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term
- U.S. Vermont Hazardous Waste Acutely Hazardous Wastes
- U.S. Vermont Hazardous Waste Hazardous Constituents
- U.S. Washington Dangerous Waste Discarded Chemical Products List

### **Canadian regulations**

Water (7732-18-5)				
Listed on the Canadian DSL (Domesti	c Substances List) inventory.			
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria			
Sodium chloride (7647-14-5)				
Listed on the Canadian DSL (Domesti	c Substances List) inventory.			
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria			
Sodium metabisulfite (7681-57-4)				
Listed on the Canadian DSL (Domesti	c Substances List) inventory.			
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria			
Epinephrine (51-43-4)				
Listed on the Canadian DSL (Domesti	c Substances List) inventory.			

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

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### 16. OTHER INFORMATION

**Indication of Changes** : 06/11/2013

Data Sources : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard

Communication Standard 29 CFR 1910.1200.

Other Information : This document has been prepared in accordance with standards for workplace safety. The

precautionary statements and warnings included might not apply in all cases. Your needs may vary

depending on the potential for exposure in your workplace.

#### **GHS Full Text Phrases:**

Acute Tox. 2 (Dermal)	Acute toxicity (dermal) Category 2	
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4	
Eye Dam. 1	Serious eye damage/eye irritation Category 1	
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A	
Muta. 2	Germ cell mutagenicity Category 2	
Resp. Sens. 1B	Respiratory sensitisation Category 1B	
Skin Sens. 1B	Skin sensitization Category 1B	
H302	Harmful if swallowed	
H310	Fatal in contact with skin	
H317	May cause an allergic skin reaction	
H318	Causes serious eye damage	
H319	Causes serious eye irritation	
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled	
H341	Suspected of causing genetic defects	

### Party responsible for the preparation of this document:

Mylan Global Environmental, Health, and Safety Department

Phone Number: 304-599-2595

This MSDS has been prepared for occupational exposure and intended to address some end-user concerns; however, patients/consumers are also strongly encouraged to review the product information insert or product label for consumer-specific information about this product. Patients/Consumers: Refer to the package insert or product label for appropriate consumer-specific information about this product when used according to manufacturer's directions.

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for completeness of the information herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

SDS US (GHS Hazcom 2012) - Mylan Pharmaceuticals

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# SAFETY DATA SHEET (SDS)

			Se	ection 1: IDENTIFIC	ATION			
TRADE NAME	GEBAUER'S ETHYL CHLORIDE <sup>®</sup>		MANUFACTURER	Gebauer Company 4444 East 153 Street Cleveland, Ohio 44128				
CHEMICAL NAME	E Ethyl Chloride		INFORMATION	Toll Free: (800) 321-9348 Phone: (216) 518-3030 Fax: (216) 581-4970				
RECOMMENDED USE	Topical /	Anesthetic		IN CASE OF EMERGENCY	CHEMTREC - (800) 242-9300 or (703) 527-3887			
FORMULA	C <sub>2</sub> H <sub>5</sub> Cl			CHEMICAL FAMILY	Halogenated Hydrocarbon			
			Section	2: HAZARDS IDEN	NTIFICATION			
Health Rating Flammability Rating Reactivity Rating Special Rating Lab Protective Equipment Storage Color Code  Health Rating 2 - Moderate 4 - Acute 0 - None None None Neoprene or Viton gloves, lab coat, goggles or face shield, vent hood. Red (Flammable)								
Hazard Category		Signal Word	I	Hazard Statement	Pictogram	Pro	ecautionary Statement	
Flammable Gas (Catego			remely flammable gas			om heat/sparks/open flames/hot ery equipment – No smoking.		
Compressed Gas	Compressed Gas Warning Contain			s gas under pressure; may explode if heated		Store is a well	Store is a well-ventilated place.	
Eye Irritation (Category 2B) Warning		С	causes eye irritation	N/A	If product gets Aid Measures	s into eyes, see the Section 4: First .		
Acute Toxicity (Category 4) Warning			Harmful if inhaled		If inhaled, see Measures.	If inhaled, see the Section 4: First Aid Measures.		
	Cause				Effec			
		Inhalation	effects. arrest.		s system depression, resp m to endogenous epineph	oiratory paralysis, or fat- irine, causing dangerou	roduce narcotic and anesthetic al coma with respiratory or cardiac s dysrhythmias. Although	
		Ingestion	Unlikely	route of exposure due to ga	seous nature.			
Potential Acute Health E	Effects	Skin Contact	Rapid evaporation of liquid may cause frostbite. Symptoms of frostbite are blanching of the skin, cold feeling numbness. Cutaneous sensitization may occur, but is extremely rare. Freezing can occasional alter pigmentation. A single prolonged skin exposure is not likely to result in absorption of harmful amounts				n occasional alter pigmentation. Ā	
		Chronic Exposure	Long term exposure to high levels may produce the following: loss of muscle coordination, involuntary eye movements, tremors, speech disturbance, sluggish reflexes and hallucinations. These symptoms are alleviated when the overexposure is ended.					
Aggravation of Preexisting Conditions			atting properties of Ethyl Chl	, 55	ŭ .			
	Section 3: COMPOSITION / INFORMATION ON INGREDIENTS							
Ingredient	Synonyms (Chloroethane,			CAS Number	Concentration	OSHA PEL	ACGIH TLV-TWA	
Ethyl Chloride	F	Hydrochloric Ether	C	75-00-3	>99 VEACURES	1000ppm	100ppm	
Inhalation	Section 4: FIRST AID MEASURES  Immediately remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, qualified personnel may give oxygen. Call a physician.							
Ingestion	Unlikely route of exposure due to gaseous nature.							
Skin Contact	For exposure to liquid, immediately warm frostbite area with warm water not to exceed 105°F (41°C). In case of massive exposure, remove contaminated clothing while showering with warm water. Call a physician.							
Eye Contact	For exposure to liquid, check for and remove any contact lenses. Immediately flush eyes thoroughly with warm water for at least 15 minutes. Hold the eyelids open and away from the eyeballs to ensure that all surfaces are flushed thoroughly. See a physician, preferably an ophthalmologist, immediately.							

# Section 5: FIRE FIGHTING MEASURES

### **Special Fire Fighting Procedures**

DANGER! Flammable liquid and gas. Evacuate all personnel from danger area. Use water spray to cool fire-exposed containers, structures and equipment. Use water spray, carbon dioxide or dry chemicals as extinguishing media. Do not use stream of water because it will scatter and spread the fire. Remove sources of ignition if without risk. Remove all containers from fire area if without risk; continue cooling water spray while moving containers. Do not extinguish any flames emitted from containers, stop flow of material if without risk, or allow flames to burn out. Self contained breathing apparatus may be required by rescue workers.

#### **Unusual Fire and Explosion Hazards**

Flammable liquid and gas. Very dangerous fire hazard when exposed to heat, flame or powerful oxidizers. Ethyl chloride is heavier than air and the vapors may hug the ground, making distant ignition and flashback possible. During a fire, toxic gases (hydrogen chloride, chlorine and phosgene) may be produced. Direct exposure to flames may cause container explosion. Static discharge may ignite ethyl chloride.

# Section 6: ACCIDENTAL RELEASE MEASURES

#### Spill and Leak Response

Flammable liquid and Gas. Eliminate all sources of ignition. Allow spilled ethyl chloride to evaporate, ventilate enclosed areas. In case of large spill, evacuate all personnel from area. For Entry Into Unknown Concentrations That Could Be IDLH (≥ 3800 ppm ): Full Face Self Contained Breathing Apparatus

#### **Waste Disposal Method**

Comply with federal, state and local laws; return unused quantities to Gebauer Company by making appropriate arrangements for pickup and transportation.

### **Section 7: HANDLING AND STORAGE**

Store in cool, dry well ventilated area. Protect against physical damage. Do not subject to temperatures above 120°F (50°C). Do not store near high frequency ultrasound equipment or non-explosion proof electrical equipment.

#### Handling Precautions

Use in well-ventilated areas. Do not use near temperatures above 120°F (50°C). Do not use with cautery or non-explosion proof electrical equipment. Do not use near open flame

# Section 8: EXPOSURE CONTROLS - PERSONAL PROTECTION

**Engineering Controls** Use with adequate ventilation

For clinical setting: minimize inhalation of vapors by patient, especially when applying to head and neck. For large spills (≥ 1000 ppm twa and ≤ 3800 **Respiratory Protection** 

ppm instantaneous exposure): full face, positive pressure, self-contained breathing apparatus should be available for emergency use.

**Skin Protection** Wear neoprene or viton gloves for exposures ≥1000 ppm TWA and ≤3800 ppm instantaneous exposure.

**Eye Protection** Splash goggles or safety glasses.

OSHA - 1000ppm **Exposure Limits** PELACGLIH - 100 ppm TLV, A3 IDHL - 3800 ppm LEL ACGIH - 100ppm TLV

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

**Boiling Point:** 54.1°F (12.3°C) Specific Gravity (@ 68°F): 0.8939

-213.5°F (-136.4°C) Freezing Point: :Ha Essentially neutral

**Evaporation Rate** Greater than 1 Solubility in Water Slight by slow hydrolysis

(Butyl Acetate = 1):

Vapor Density Odor: 2 23 **Ethereal** (Air = 1 @  $70^{\circ}$ F):

Vapor Pressure 20.1 psia (5.4 psig) Appearance: Clear and colorless liquid or gas (@ 68°F):

Flammable Limits in Air Flash Point: -58°F (-50°C) TCC; -45°F (-43°C) TOC Lower: 3.8% Upper: 15.4%

(% by volume): Autoignition

**MOLECULAR WEIGHT** 966°F (519°C) 64.52 Temperature:

# Section 10: STABILITY AND REACTIVITY

Stability Normally stable in air. In presence of moisture, slowly hydrolyses forming hydrochloric acid.

**Hazardous Decomposition** Carbon monoxide, hydrogen chloride gas, phosgene gas, and carbon dioxide.

**Products** 

Alkali metals such as sodium, and potassium, powdered metals such as aluminum, zinc and magnesium and strong oxidizers. **Incompatible Materials** 

**Hazardous Polymerization** Not expected to occur.

**Conditions to Avoid** Contact with incompatible materials and exposure to heat, sparks and other sources of ignition and exposure to high heat.

# Section 11: TOXICOLOGICAL INFORMATION

Routes of Exposure:

60,632 ppm (rat) (2 hr.) Anesthetic effects. Acute Inhalation LC50 Skin Irritation Produces frostbite.

Eye Irritation

Acute

Chronic Effects Not listed as a carcinogen or suspected carcinogen by NTP or OSHA. Listed under IARC in Group 3: Not classifiable.

# Effects of overexposure:

Inhalation: Can produce varying degrees of intoxication; i.e. loss of coordination, drunkenness, possible convulsions, abdominal cramps, nausea and coma. It has been reported that concentrated vapors can produce narcotic and anesthetic effects in humans and may produce deep or even fatal anesthesia. Inhalation may also be irritating to the respiratory tract. Eye/Skin: Liquid spilled on skin may cause possible frostbite. For eye contact, there are no specific known effects, but the effects may be the same as contact with skin.

Increased liver weights were observed in rats and mice after exposure to 2500, 5000, 10,000 and 19,000 ppm for 6 hours/day, 5 Sub Chronic days/week for 13 weeks. No other effects were observed in the study.

Carcinomas of the uterus were observed in female mice exposed to 15,000 ppm during the course of a 2-year inhalation study. Carcinogenicity

	Section 11	: TOXICOLOG	ICAL INFORMATION (Con	tinued)	
Mutagenesis	Has been shown to be m	Has been shown to be mutagenic in bacteria, with and without activation. A 2-year study in mice did not yield increases in bone			
Reproductive/Developmental	No teratogenic effects were observed in mice exposed to 500, 1500 or 5000 ppm during organogenesis . No effects on reproductive organs were observed after 13 weeks exposure to vapors.				
	Se	ection 12: ECC	LOGICAL INFORMATION		
Environmental Stability	Gas is dissipated rapidly	in a ventilated area.			
Effect on Plants and Animals			m exposure to: central nervous syste roduced upon evaporation.	m depression, liver and kidney. No information on	
Effect on Aquatic Life	No evidence currently av	vailable.			
	Se	ection 13: DISF	POSAL CONSIDERATIONS		
	Waste disposal must be in accordance with appropriate Federal, State and local regulations.				
	S	Section 14: TRA	ANSPORT INFORMATION		
Proper Shipping Name			Ethyl Chloride		
	Hazard Class		2.1 (Flammable Gas)		
	Identification Number		UN 1037		
Packing Group		I (49 CFR 173.322)			
Reportable Quantity		100 LBS./45.4 Kg			
	DOT La	abel(s) Required	Flammable Gas		
	Canada <sup>-</sup>	TDG Description	Ethyl Chloride, Class 2.1, UN1037 **S	Special Commodity**	
	Se	ection 15: REG	<b>ULATORY INFORMATION</b>		
USA TSCA: Listed		Canada DSL:	Listed	Korea ECL: Listed	
Europe EINECS: Listed		Australia AICS:	Listed	Japan MITI (ENCS): Listed	
SARA Title III	Section 302: Not listed. Sect	tions 311, 312: Acute h	nealth hazard. Section 313: Listed.		
CERCLA	Listed with a reportable quantity of 100 lbs.				
State Regulatory Information: Ethyl Chloride is covered under the specific State regulations listed.	Alaska California Florida Massachusetts Michigan Minnesota Missouri New Jersey New York Pennsylvania Rhode Island	Designated Toxic and Hazardous Substances Permissible Exposure Limits for Chemical Contaminants Substance List Substance List Critical Materials Register List of Hazardous Substances Employer Information/Toxic Substance List Right to Know Hazardous Substance List Hazardous Substance List Regulated Substance List Hazardous Substance List Hazardous Substance		CANADA Regulations (WHMIS): Class A – Compressed Gas Class B1 – Flammable Gas Canadian NPRI – Listed  EUROPEAN UNION CLASSIFICATION: Hazard Symbol: F+; Xn Risk Phrases: R12-40-52/53	
	Texas Hazardous Substant			Safety Phrases: S(2-) 9-16-33-36/37-61	

# **Section 16: OTHER INFORMATOIN**

Ethyl Chloride is on the California Proposition 65 lists. This product contains a chemical known to the State of California to cause cancer.

Hazardous Substance List

Toxic and Hazardous Substances

This MSDS was revised and updated as of 04/23/2013 by Gebauer Company.

West Virginia

Wisconsin

California

Proposition 65:

INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET IS OFFERED WITHOUT CHARGE FOR USE BY TECHNICALLY QUALIFIED PERSONNEL AT THEIR DISCRETION AND RISK. ALL STATEMENTS, TECHNICAL INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED ON TESTS AND DATA WHICH WE BELIEVE TO BE RELIABLE, BUT THE ACCURACY OR COMPLETENESS THEREOF IS NOT GUARANTEED AND NO WARRANTY OF ANY KIND IS MADE WITH RESPECT THERETO. THIS INFORMATION IS NOT INTENDED AS A LICENSE TO OPERATE UNDER OR A RECOMMENDATION TO PRACTICE OR INFRINGE ANY PATENT OF THIS COMPANY OR OTHER COVERING ANY PROCESS, COMPOSITION OF MATTER OR USE. SINCE THE COMPANY SHALL HAVE NO CONTROL OF THE USE OF THE PRODUCT DESCRIBED HEREIN, THE COMPANY ASSUMES NO LIABILITY OF LOSS OR DAMAGE INCURRED FROM THE PROPER OR IMPROPER USE OF SUCH PRODUCT.



# SAFETY DATA SHEET

### 1. Identification

Product identifier Everwipe Disinfecting Wipes 75ct (101075)

**Product code** 

Recommended use Disinfecting Wipe Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Legacy

Address 1 Advantage Court

Bordentown, NJ 08505

**Telephone** 1-800-521-4190

# 2. Hazard(s) identification

**Physical hazards** 

Health hazardsFlammable liquidsCategory 4Environmental hazardsSerious eye damage/eye irritationCategory 2BHazardous to the aquatic environment,Category 2

acute hazard

Hazardous to the aquatic environment, long- Category 3

OSHA defined hazards term hazard

Not classified.

Label elements
Hazard symbol

None.

Signal word Warning

Hazard statement Combustible liquid. Causes eye irritation. Toxic to aquatic life. Harmful to aquatic life with long

lasting effects.

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Wash thoroughly after

handling. Avoid release to the environment. Wear protective gloves/eye protection/face

protection.

Response If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. In case of fire:

Use appropriate media to extinguish.

**Storage** Store in a well-ventilated place. Keep cool.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information Not applicable.

# 3. Composition/information on ingredients

# **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Tetra sodium ethylenediamine tetra acetic acid (Na4 EDTA)		64-02-8	1 - < 3
_Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride (Alternate CAS 68956-79-6)		85409-23-0	< 0.2
_Alkyl dimethyl benzyl ammonium chloride (C12-18)		68391-01-5	< 0.2
Other components below reportable l	evels		90 - 100

#### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists.

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and delayed

Indication of immediate medical attention and special treatment needed

Exposed individuals may experience eye tearing, redness, and discomfort.

If the product is ingested, probable mucosal damage may contraindicate the use of gastric lavage. Treat the affected person appropriately.

**General information**Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire-fighting equipment/instructions

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards Combustible liquid.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

**Environmental precautions** 

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

Precautions for safe handling

Keep away from open flames, hot surfaces and sources of ignition. When using do not smoke. Avoid contact with eyes. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains.

Conditions for safe storage, including any incompatibilities DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL. PESTICIDE STORAGE: Store in a dry place no lower in temperature than 50°F or higher than 120°F. Keep away from heat, sparks and open flame. Store in original tightly closed container. Store in a cool. dry place out of direct sunlight. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep in an area equipped with sprinklers.

# 8. Exposure controls/personal protection

**Occupational exposure limits** 

No exposure limits noted for ingredient(s).

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles). Eye/face protection

Wear protective gloves. **Hand protection** 

Skin protection

Other Wear suitable protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. If engineering controls do

not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved

respirator must be worn.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work

clothing and protective equipment to remove contaminants.

# 9. Physical and chemical properties

**Appearance** 

Liquid. Physical state

**Form** Liquid saturated on wipe. Color clear-hazy liquid on wipe

Lemon Odor **Odor threshold** Not available. 10.5 - 12.5pН Melting point/freezing point Not available. Initial boiling point and boiling

range

Not available.

196.6 °F (91.4 °C) Flash point Not available. **Evaporation rate** Not available. Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Flammability limit - upper

(%)

Not available.

Not available. **Explosive limit - lower (%)** Not available. Explosive limit - upper (%) Not available. Vapor pressure Vapor density Not available. Relative density Not available.

Solubility(ies)

Solubility (water) Not available. **Partition coefficient** Not available.

(n-octanol/water)

Auto-ignition temperature

Decomposition temperature

Viscosity

Not available.

Not available.

Not available

Not available

Not available

# 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Reacts violently with strong acids. This product may react with oxidizing agents. Do not

mix with other chemicals. Contact with incompatible materials.

Incompatible materials Acids. Oxidizing agents.

**Hazardous decomposition** 

products

Upon decomposition, this product may yield oxides of nitrogen and ammonia, carbon dioxide,

carbon monoxide and other low molecular weight hydrocarbons.

# 11. Toxicological information

Information on likely routes of exposure

IngestionExpected to be a low ingestion hazard.InhalationProlonged inhalation may be harmful.

Skin contact Causes mild skin irritation.

Eye contact Causes eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Exposed individuals may experience eye tearing, redness, and discomfort.

Information on toxicological effects

Acute toxicity Not available.

Skin corrosion/irritation Causes mild skin irritation.

Serious eye damage/eye Causes eye irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not available.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not applicable.

Specific target organ toxicity -

repeated exposure

Not applicable.

Aspiration hazard Not applicable.

# 12. Ecological information

**Ecotoxicity** Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Components Species Test Results

Tetra sodium ethylenediamine tetra acetic acid (Na4 EDTA) (CAS 64-02-8)

Aquatic

Fish LC50 Bluegill (Lepomis macrochirus) 472 - 500 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this

componentDisposal considerations

**Disposal instructions**Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazardous waste code
The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

# 13. Transport information

General Note - Shipper/offeror is responsible for confirming appropriate proper shipping name, hazard

classification(s), packing group, marking, labeling, placarding, packaging, and other regulatory requirements applicable to packages offered for transport. These requirements may vary depending on the quantity of material, packaging, mode of transportation, and carrier.

DOT

UN number NA1993

UN proper shipping name Transport hazard class(es) COMBUSTIBLE LIQUID, N.O.S. (Ethanol)

Class Combustible Liquid

Subsidiary risk -

Packing group III

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

DOT





# 14. Regulatory information

**US federal regulations** This product is a U.S. EPA registered pesticide.

Not available.

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely

SARA 311/312 Hazardous chemical

hazardous substance

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Acetaldehyde	75-07-0	< 0.1	

### Other federal regulations

# Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

**Safe Drinking Water Act** 

(SDWA)

Not regulated.

FIFRA Information This chemical is a pesticide product registered by the Environmental Protection Agency and is

subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on

the pesticide label:

Signal word CAUTION

Hazard statement Causes moderate eye irritation.

**US** state regulations

US. Massachusetts RTK - Substance List

Not regulated.

**US. Rhode Island RTK** 

Not regulated.

**US. California Proposition 65** 

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Acetaldehyde (CAS 75-07-0) Listed: April 1, 1988

### **International Inventories**

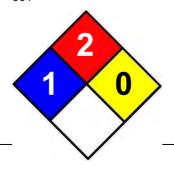
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 15. Other information, including date of preparation or last revision

**Issue date** 4/6/20 **Version #** 001

**NFPA** ratings



#### Disclaimer

Terms and Conditions. This SDS is designed only as guidance for the products to which it applies. To the greatest extent permitted by applicable law, nothing contained herein creates any legal obligation including contractual obligations, expressed or implied warranties, including any warranties of merchantibility or fitness for particular purpose; or confers any intellectual property rights, including rights to use trademarks or a license to use patents, issued or pending. The information contained herein is based on the manufacturer's own study and the work of others, and is subject to change at any time without further notice. There is no warranty, expressed or implied, as to the accuracy, completeness or adequacy of the information contained herein, and neither the provider nor the manufacturer (nor the agents, directors, officers, contractors or employees of either) are liable to any party for any damages of any nature, including direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of any information in this SDS, or in any other way related (directly or indirectly) to this SDS. The receipt and use of this information constitutes consent to these terms and conditions.



# **Safety Data Sheet**

Issue Date: 23-Aug-2012 Revision Date: 07-May-2014 Version 1

# 1. IDENTIFICATION

**Product Identifier** 

Product Name GBG AloeGel® Instant Hand Sanitizer

Other means of identification

**Product Code** 7777, 7776, 7775, 7774

UN/ID No UN1993

Recommended use of the chemical and restrictions on use

Recommended Use Hand degermer.

### **Emergency Telephone Number**

Emergency Telephone (24 hr) Chemtrec: 1-800-424-9300

# 2. HAZARDS IDENTIFICATION

Appearance Clear green gel Physical State Gel Odor Aloe

Classification

Flammable Liquids Category 2

Signal Word

Danger

# **Hazard Statements**

Highly flammable liquid and vapor



# **Precautionary Statements - Prevention**

Keep away from heat/sparks/open flames/hot surfaces. — No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof equipment Use only non-sparking tools Take precautionary measures against static discharge

#### **Precautionary Statements - Response**

IN CASE OF FIRE: Use CO2, dry chemical, or foam for extinction

# **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# **Other Hazards**

Toxic to aquatic life with long lasting effects

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Ethyl Alcohol	64-17-5	65

# 4. FIRST-AID MEASURES

### **First Aid Measures**

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If

eye irritation persists: Get medical advice/attention.

**Skin Contact** None under normal use conditions.

**Inhalation** None under normal use conditions.

**Ingestion** Give large quantities of water. Do not induce vomiting. Get medical attention.

### Most important symptoms and effects

**Symptoms** Can cause eye irritation.

# Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Water. Foam. Carbon dioxide (CO2).

Unsuitable Extinguishing Media Not determined.

### **Specific Hazards Arising from the Chemical**

Flammable.

# Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions**Use personal protective equipment as required.

### Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Flood area with water and then mop up. Dispose of in accordance with federal, state and

local regulations.

# 7. HANDLING AND STORAGE

# Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Do not destroy or

deface the label. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Use spark-proof tools and explosion-proof equipment. Ground/bond container and receiving

equipment. Take precautionary measures against static discharges.

# Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store containers

upright.

Incompatible Materials None known based on information supplied.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethyl Alcohol	STEL: 1000 ppm	TWA: 1000 ppm	IDLH: 3300 ppm
64-17-5		TWA: 1900 mg/m <sup>3</sup>	TWA: 1000 ppm
		(vacated) TWA: 1000 ppm	TWA: 1900 mg/m <sup>3</sup>
		(vacated) TWA: 1900 mg/m <sup>3</sup>	-
Trade Secret	TWA: 5 ppm	TWA: 5 ppm	IDLH: 200 ppm
	S*	TWA: 20 mg/m <sup>3</sup>	TWA: 5 ppm
		(vacated) TWA: 5 ppm	TWA: 20 mg/m <sup>3</sup>
		(vacated) TWA: 20 mg/m <sup>3</sup>	
		(vacated) S*	
		S*	
Trade Secret	-	TWA: 15 mg/m <sup>3</sup> mist, total	-
		particulate	
		TWA: 5 mg/m <sup>3</sup> mist, respirable	
		fraction	
		(vacated) TWA: 10 mg/m <sup>3</sup> mist,	
		total particulate	
		(vacated) TWA: 5 mg/m <sup>3</sup> mist,	
		respirable fraction	

# **Appropriate engineering controls**

**Engineering Controls** None under normal use conditions.

# Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Avoid contact with eyes.

**Skin and Body Protection** No protective equipment is needed under normal use conditions.

**Respiratory Protection** No protective equipment is needed under normal use conditions.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical State Gel

Appearance Clear green gel Odor Aloe

Color Green Odor Threshold Not determined

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

7.0 **Melting Point/Freezing Point** Not available **Boiling Point/Boiling Range** Not determined Flash Point 18 °C / 65 °F **Evaporation Rate** Not determined Flammability (Solid, Gas) n/a-liquid **Upper Flammability Limits** Not determined **Lower Flammability Limit** Not determined **Vapor Pressure** Not available **Vapor Density** Not determined

Specific Gravity 0.89400 (1=Water)

Water Solubility
Solubility in other solvents
Partition Coefficient
Auto-ignition Temperature
Completely soluble
Not determined
Not determined
Not determined

7777, 7776, 7775, 7774 - Instant Hand Sanitizer

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Decomposition Temperature
Kinematic Viscosity
Not determined

# 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### **Chemical Stability**

Stable under recommended storage conditions.

# **Possibility of Hazardous Reactions**

None under normal processing.

### **Conditions to Avoid**

Heat, flames and sparks.

### **Incompatible Materials**

None known based on information supplied.

# **Hazardous Decomposition Products**

None known based on information supplied.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

### **Product Information**

**Eye Contact** Avoid contact with eyes.

**Skin Contact** Not expected to be a skin irritant during prescribed use.

Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation

hazard.

**Ingestion** Do not taste or swallow.

### **Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethyl Alcohol 64-17-5	= 7060 mg/kg(Rat)	-	= 124.7 mg/L (Rat)4 h
Trade Secret	> 5 g/kg (Rat)	-	-
Trade Secret	= 420 mg/kg ( Rat )	> 10000 mg/kg(Rabbit)	> 5.3 mg/L (Rat)4 h
Trade Secret	= 12600 mg/kg(Rat)	> 10 g/kg(Rabbit)	> 570 mg/m³(Rat)1 h
Trade Secret	> 10000 mg/kg(Rat)	= 5 g/kg(Rabbit)	> 41 mg/L ( Rat )

# Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity Ethanol has been shown to be carcinogenic in long-term studies only when consumed as an alcoholic beverage.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethyl Alcohol	A3	Group 1	Known	X
64-17-5				

# Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen
IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

# **Numerical measures of toxicity**

Not determined

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

Toxic to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Ethyl Alcohol		12.0 - 16.0: 96 h		9268 - 14221: 48 h Daphnia
64-17-5		Oncorhynchus mykiss mL/L		magna mg/L LC50 10800: 24
		LC50 static 100: 96 h		h Daphnia magna mg/L
		Pimephales promelas mg/L		EC50 2: 48 h Daphnia
		LC50 static 13400 - 15100:		magna mg/L EC50 Static
		96 h Pimephales promelas		
		mg/L LC50 flow-through		
Trade Secret	20: 96 h Pseudokirchneriella	150 - 223: 96 h Brachydanio		25.8: 24 h Daphnia magna
	subcapitata mg/L EC50 20:	rerio mg/L LC50 semi-static		mg/L EC50
	96 h Pseudokirchneriella	420 - 560: 96 h Oryzias		
	subcapitata mg/L EC50	latipes mg/L LC50 semi-		
	static	static 37: 96 h Oncorhynchus		
		mykiss mg/L LC50 1000: 96		
		h Poecilia reticulata mg/L		
		LC50 semi-static		
Trade Secret		51 - 57: 96 h Oncorhynchus		
		mykiss mL/L LC50 static		
Trade Secret	100: 72 h Desmodesmus	8400: 96 h Brachydanio rerio		100: 48 h Daphnia magna
	subspicatus mg/L EC50	mg/L LC50 semi-static 8400:		mg/L EC50
		96 h Brachydanio rerio mg/L		
		LC50		

# Persistence/Degradability

Not determined.

### **Bioaccumulation**

Not determined.

# **Mobility**

Chemical Name	Partition Coefficient
Ethyl Alcohol	-0.32
64-17-5	

# **Other Adverse Effects**

Not determined

7777, 7776, 7775, 7774 - Instant Hand Sanitizer

# 13. DISPOSAL CONSIDERATIONS

# **Waste Treatment Methods**

**Disposal of Wastes**Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

# **California Hazardous Waste Status**

Chemical Name	California Hazardous Waste Status
Ethyl Alcohol	Toxic
64-17-5	Ignitable

# 14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

DOT

UN/ID No UN1993

Proper Shipping Name Flammable liquid, n.o.s. (ethanol)

Hazard Class 3
Packing Group II

<u>IATA</u>

UN/ID No UN1993

Proper Shipping Name Flammable liquid, n.o.s. (ethanol)

Hazard Class 3
Packing Group II

**IMDG** 

UN/ID No UN1993

Proper Shipping Name Flammable liquid, n.o.s. (ethanol)

Hazard Class 3
Packing Group II

Marine Pollutant This material may meet the definition of a marine pollutant

7777, 7776, 7775, 7774 - Instant Hand Sanitizer

# 15. REGULATORY INFORMATION

### **International Inventories**

TSCA Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

#### **US Federal Regulations**

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### **US State Regulations**

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Ethyl Alcohol - 64-17-5	Carcinogen
	Developmental

### **U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethyl Alcohol 64-17-5	Х	X	Х
Trade Secret	Х	X	Х
Trade Secret	Х	X	X

# **16. OTHER INFORMATION**

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	Not determined	Not determined	Not determined	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	1	4	0	A = Goggles

Issue Date: 23-Aug-2012
Revision Date: 07-May-2014
Revision Note: New format

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 



# SAFETY DATA SHEET

# 1. Identification

**Product identifier** Glucagon™

Other means of identification

**Item Code** MS8009, VL0660, VL7519, VL7286, AM0668, UC9527, AM7220, MS8085, AM0666, MS8031,

VL7166, VL7220, MS8030, VL0666, MS8239, AM7078, VL7529

Recommended use Pharmaceutical **Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

**Company name** Eli Lilly and Company **Address** Lilly Corporate Center Indianapolis, IN 46285

**United States** 

**Telephone** Phone: +1-317-276-2000

E-mail lilly\_msds@lilly.com

**Emergency phone** CHEMTREC: +1-800-424-9300

number

# 2. Hazard(s) identification

**Physical hazards** Not classified. **Health hazards** Not classified. **OSHA** defined hazards Not classified.

**Label elements** 

**Hazard symbol** None. Signal word None.

**Hazard statement** The mixture does not meet the criteria for classification.

**Precautionary statement** 

**Prevention** Not available. Response Not available. **Storage** Not available. **Disposal** Not available. Hazard(s) not otherwise None known.

classified (HNOC)

**Supplemental information** 

Not applicable.

# 3. Composition/information on ingredients

### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Glucagon		16941-32-5	2

**Composition comments** Remaining components of this product are non-hazardous and/or are present at concentrations

below reportable levels.

4. First-aid measures

**Inhalation** Remove to fresh air. If breathing stops, provide artificial respiration. Get medical attention

immediately.

Skin contact Wash off immediately with plenty of water for at least 15 minutes. Immediately take off all

contaminated clothing. Get medical attention if irritation develops and persists. Wash contaminated

clothing before reuse.

Material name: Glucagon™ SDS US **Eye contact** Immediately flush eye(s) with plenty of water. Get medical attention.

Ingestion Consult a physician. Most important None known.

symptoms/effects, acute and

delaved

# 5. Fire-fighting measures

Suitable extinguishing media Carbon dioxide, dry chemical or water.

Unsuitable extinguishing

None known.

Specific hazards arising from

the chemical

Hazardous decomposition products formed under fire conditions.

Special protective equipment and precautions for

firefiahters

Wear self-contained breathing apparatus and protective clothing.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing, gloves and eye/face protection. See Section 8 of the SDS for

Personal Protective Equipment.

Methods and materials for containment and cleaning up

**Environmental precautions** 

Do not sweep. Collect spill using a vacuum cleaner with a HEPA filter. If vacuum is not available,

lightly mist/wet material and remove by mopping or wet wiping. Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

**Precautions for safe handling** 

Conditions for safe storage, including any

incompatibilities

See Section 8 of the SDS for Personal Protective Equipment. Keep container tightly closed in a dry and well-ventilated place.

# 8. Exposure controls/personal protection

# **Occupational exposure limits**

Lilly (LEG)

Components	Туре	Value	
Glucagon (CAS 16941-32-5)	STEG (15min)	1400 ug/m3	
	TWA (12hrs)	640 ug/m3	
	TWA (8hrs)	640 ug/m3	
ccupational exposure limits	No exposure limits noted for ingredient(s).		

**Occupational exposure limits** 

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Appropriate engineering** Open handling is not recommended. Use appropriate control measures such as fume hood, controls

ventilated enclosure, local exhaust ventilation, or down-draft booth.

# Individual protection measures, such as personal protective equipment

Wear goggles/face shield. Eye/face protection

**Skin protection** 

Hand protection Chemical-resistant gloves and impermeable body covering to minimize skin contact.

Other Not available.

**Respiratory protection** Use an approved respirator. Select appropriate respirator for physical characteristics of material.

Select respirator with appropriate protection factor.

Thermal hazards Not available.

# 9. Physical and chemical properties

**Appearance** 

**Physical state** Solid.

Lyophilized cake. **Form** 

Color White Odor Odorless

Material name: Glucagon™ SDS US

5115 Version #: 01 Issue date: 11-18-2014

**Odor threshold** No data available. рΗ No data available. Melting point/freezing point No data available.

Initial boiling point and

boiling range

No data available.

Flash point Not applicable. **Evaporation rate** Not applicable.

Flammability (solid, gas) No test data available.

Upper/lower flammability or explosive limits

Flammability limit - lower No data available.

(%)

Flammability limit -

No data available.

upper (%)

**Explosive limit - lower** 

No data available.

(%)

**Explosive limit - upper** 

No data available.

(%)

No data available. Vapor pressure Vapor density No data available. **Relative density** No data available.

Solubility(ies)

Soluble. Solubility (water)

**Partition coefficient** No data available.

(n-octanol/water)

**Auto-ignition temperature** No data available. **Decomposition temperature** No data available. **Viscosity** Not applicable.

Other information

**Density** No data available. **Explosive properties** Not explosive

The substance or mixture is not classified as oxidizing. **Oxidizing properties** 

VOC (Weight %) Not applicable.

9.2. Other information

**Minimum Ignition** No data available.

**Temperature** 

# 10. Stability and reactivity

Reactivity Not water reactive.

**Chemical stability** Material is stable under normal conditions. **Possibility of hazardous** Hazardous polymerization does not occur. reactions

**Conditions to avoid** None known.

**Incompatible materials** Strong oxidizing substances.

**Hazardous decomposition** 

products

Hazardous decomposition products formed under fire conditions.

# 11. Toxicological information

### Information on toxicological effects

Not expected to be active orally. **Acute toxicity** 

Material name: Glucagon™ SDS US

Components	Species	Test Results
Glucagon (CAS 16941-32-5)		
Acute		
Other		
	Mouse	300 mg/kg Intravenous (No mortality. No toxicity)
	Rat	300 mg/kg Subcutaneous (No mortality)
		20 mg/kg Intravenous (No mortality)
Skin corrosion/irritation	Due to lack of data the classification is not possible.	
Serious eye damage/eye irritation	Due to lack of data the classification is not possible.	
Respiratory or skin sensitization	on	
Respiratory sensitization	Due to lack of data the classification is not possible.	
Skin sensitization	Due to lack of data the classification is not possible.	
Germ cell mutagenicity	Negative in in vitro genetic toxicity assays. (Glucagon) Due to inconclusive data the classification criteria are not met.	
Carcinogenicity	Not listed by IARC, NTP, ACGIH or OSHA. No carcinogenicity data available for this product. Due to lack of data the classification is not possible.	

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

**Reproductive toxicity** Growth suppression in delivered offspring at large pharmacological doses. (Glucagon)

Based on available data, the classification criteria are not met.

Specific target organ toxicity

- single exposure

Due to lack of data the classification is not possible.

Specific target organ toxicity

- repeated exposure

Animal studies have reported the following effects: Change in heart rate or rhythm. Elevated blood

sugar levels. Liver effects. Kidney effects. Lung effects. (Glucagon) (Subcutaneous)

Based on available data, the classification criteria are not met.

**Aspiration hazard** Not applicable.

**Further information** The following hazards may be associated with accidental or therapeutic injection: Elevated blooc

sugar levels.

# 12. Ecological information

**Ecotoxicity** Not available.

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** No data available on bioaccumulation.

Mobility in soilNot available.Other adverse effectsNot available.

# 13. Disposal considerations

**Disposal instructions** Dispose in accordance with all applicable regulations.

# 14. Transport information

DOT

Not regulated as dangerous goods.

**IATA** 

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

**Transport in bulk according to** This substance/mixture is not intended to be transported in bulk. **Annex II of MARPOL 73/78** 

and the IBC Code

Material name: Glucagon™ sps us

### 15. Regulatory information

**US federal regulations** 

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazarc

Communication Standard, 29 CFR 1910.1200.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

### SARA 304 Emergency release notification

Not regulated.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

### SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

### **US state regulations**

### US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed

### **US. Massachusetts RTK - Substance List**

Not regulated.

### **US. New Jersey Worker and Community Right-to-Know Act**

Not listed.

### **US. Pennsylvania Worker and Community Right-to-Know Law**

Not listed.

### **US. Rhode Island RTK**

Not regulated.

### **US. California Proposition 65**

Not Listed.

### **International Inventories**

Country(s) or region Inventory name On inventory (yes/no)\*

CanadaDomestic Substances List (DSL)NoCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryNo

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### 16. Other information, including date of preparation or last revision

**Issue date** 11-18-2014

Version # 01

**Lilly Lab Code** Health: 0

Fire: 1 Reactivity: 0

Material name: Glucagon™ 5115 Version #: 01 Issue date: 11-18-2014

ame: Glucagon™ SDS US

List of abbreviations

STEG: Short Term Exposure Guideline

TWA: Time Weighted Average

**Disclaimer** 

As of the date of issuance, we are providing available information relevant to the handling of this material in the workplace. All information contained herein is offered with the good faith belief that it is accurate. THIS MATERIAL SAFETY DATA SHEET SHALL NOT BE DEEMED TO CREATE ANY WARRANTY OF ANY KIND (INCLUDING WARRANTY OF MERCHANT ABILITY OR FITNESS FOR A PARTICULAR PURPOSE). In the event of an adverse incident associated with this material, this safety data sheet is not intended to be a substitute for consultation with appropriately trained personnel. Nor is this safety data sheet intended to be a substitute for product literature which may accompany the finished product.

For additional information contact: Eli Lilly and Company Hazard Communication +1-317-651-9533



Revision date: 02-01-2017

### SAFETY DATA SHEET

### **SECTION 1: IDENTIFICATION**

**Nephron Pharmaceuticals Corporation** 

4500 12<sup>th</sup> Street Extension

West Columbia, SC 29172-3025

(803) 569-2800

(800) 443-4313 (24 hour contact)

Effective Date: 02-01-2017

Ipratropium Bromide, 0.5 mg/ Albuterol Sulfate, 3.0 mg Inhalation Solution, USP PRODUCT NAME:

COMMON NAME: Ipratropium Bromide/ Albuterol Sulfate

CHEMICAL NAME: Ipratropium Bromide:

8-azoniabicyclo [3, 2, 1]-octane, 3-(3-hydroxy-1-oxo-2-phenylpropoxy)-8-methyl-8-(1-

methylethyl)-, bromide (endo, syn)-, ( $\pm$ )-, monohydrate

Albuterol Sulfate:

'- [tert-butylamino-methyl] -4-hydroxy-m-xilene--'-diol sulfate (2:1) (salt)

**INTENDED USE:** Pharmaceutical product used as bronchodilator

### **SECTION 2: HAZARD(S) IDENTIFICATION**

ROUTE OF ENTRY: Inhalation, ingestion, eyes/skin contact.

TARGET ORGANS: Liver, GI tract, adrenals, male reproductive organs and eyes.

POTENTIAL HEALTH HAZARDS

Contraindications: Although rare, this product can cause immediate hypersensitivity in patient. Therefore, this product should not be used by patients who have had a previous allergic reaction to ipratropium bromide, albuterol sulfate or its derivatives.

Carcinogenicity: (NTP) No (IARC) No (OSHA) No

Chronic Effects: Possible hypersensitization (development of abnormal sensitivity).

### **SECTION 3: COMPOSITON / INFORMATION ON INGREDIENTS**

Ipratropium Bromide, 0.5 mg/ Albuterol Sulfate, 3.0 mg Inhalation Solution, USP NAME:

CAS#: 66985-17-9/51022-70-9

Other Limits: Not Established NAME: Water for Injection

CAS#: 7732-18-5

### **SECTION 4: FIRST AID MEASURES**

If In Eyes: Remove contact lenses if necessary. Flush with large amounts of cool water for at least 15 minutes.

Obtain medical attention if blurred vision or sensitivity to light occurs.

If On Skin: Wash affected areas with soap and water after removing contaminated clothing. Obtain medical attention

if contamination is significant and/or a skin reaction is evident.

Ipratropium Bromide, 0.5 mg/ Albuterol Sulfate, 3.0 mg Inhalation Solution, USP

If Inhaled: May cause irritation and hypersensitivity (anaphylactic) in some individuals. Inhalation of a liquid

preparation is not likely. Evaporation is minimal at controlled room temperatures.

If not breathing, give artificial respiration or CPR. If breathing is difficult, give oxygen. Obtain medical

attention and remove to fresh air.

If Ingested: Move affected person to a well-ventilated area and get immediate medical attention. If breathing becomes

difficult, give oxygen. If breathing stops, give artificial respiration and seek medical attention.

### **SECTION 5: FIRE FIGHTING MEASURES**

FLASH POINT/TEST METHOD:

LEL/UEL:

Unknown.

SPECIAL PROPERTIES RELATED TO FIRE HAZARD:

None.

STORAGE OR HANDLING CONDITIONS TO BE AVOIDED: Extreme Heat.

EXTINGUISHING MEDIA: Water Spray, Multipurpose Dry Chemical.

FIRE-FIGHTING PROCEDURES: Wear full protective clothing and use self-contained

breathing apparatus (SCBA).

### SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILL RESPONSE PROCEDURES (Liquid, Solid, Gas/Vapor):

Protective equipment may be necessary for spills, (See Section 8, "Exposure Controls / Personal Protection" for guidance).

For small quantities associated with normal therapeutic use, collect spillage and transfer to a closed waste container for disposal. For large or bulk quantities, collect spillage by carefully sweeping or wiping and place in a labeled, sealed container for disposal.

ACCIDENTAL RELEASE: Clean up spills immediately, observing precautions in Section 8 - "Exposure Controls / Personal Protection". Remove or decontaminate all residues in accordance with federal, state and local regulations.

### **SECTION 7: HANDLING AND STORAGE**

HANDLING: Avoid contact with eyes, skin, and clothing.

STORAGE: Store between 36° and 77° F. Discard if solution becomes discolored.

### **SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

ENGINEERING CONTROLS: No special ventilation required.

PERSONAL PROTECTION:

Respiratory: Not required under normal conditions of therapeutic use. See Section 5 " Fire-

Fighting Measures" for respiratory protection in the event of a fire.

Eye: Not required for recommended dosage and administration. Workers should wear adequate eye

protection if splash hazard exists.

Clothing: Adequate protective clothing should be worn to prevent occupational skin contact.

Gloves: When routine handling or spill cleanup may result in skin contact, impermeable (e.g., latex)

gloves should be worn.

Work Practices: Special care should be taken to ensure that contaminated clothing, equipment and work surfaces

are properly cleaned after use. Wash hands and other areas of skin contact thoroughly after

handling this material. Contaminated clothing should be cleaned or disposed of.

Ipratropium Bromide, 0.5 mg/ Albuterol Sulfate, 3.0 mg Inhalation Solution, USP

### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE AND ODOR: Clear, aqueous solution with a little or no odor.

PHYSICAL STATE: Liquid.

MELTING POINT: Not determined.

BOILING POINT: Not determined.

SOLUBILITY/MISCIBILITY (%w/v): Not determined.

### **SECTION 10: STABILITY AND REACTIVITY**

CHEMICAL STABILITY: Stable.

CONDITIONS TO AVOID: Not determined.

INCOMPATIBILITY WITH OTHER MATERIALS: Not determined. No known incompatibilities have been identified

for this product.

HAZARDOUS DECOMPOSITION PRODUCTS: Hazardous decomposition products have not been determined.

### **SECTION 11: TOXICOLOGICAL INFORMATION**

### THE RISK OF HEALTH HAZARDS MAY BE REDUCED WHEN HANDLED IN UNIT DOSAGE FORM.

PHARMACOLOGICAL ACTIVITY: The active component is albuterol sulfate. Albuterol sulfate is a β<sub>2</sub>-adrenergic

bronchodilator used for the therapeutic effect of bronchial smooth muscle relaxation. This product is used for the prevention and relief of bronchospasm in

patients with reversible obstructive airway disease (asthma) and for acute

attacks of bronchospasm.

OCCUPATIONAL EXPOSURE LIMITS: For products, the estimated safe working level is an eight-hour

time-weighted average (TWA) of 10 mcg/m<sup>3</sup>.

ACUTE TOXICITY: Overexposure to the drug in the occupational setting may result in the

same adverse effects which have been observed when albuterol sulfate is used medically. (See "Repeat Dose Toxicity" and "Clinical Safety", below). Albuterol sulfate may be absorbed following ingestion, inhalation, and to a limited extent,

through the skin.

REPEAT DOSE TOXICITY: When used medically the following adverse effects have been reported: fine

muscle tremors (especially the hands), muscle cramps, nausea or vomiting, headache, vertigo (dizziness), nervousness, heartburn, and rapid pulse, palpitations, and increased blood pressure. Hypersensitivity reactions (ranging from mild to life threatening) and provide a utilization (historical hypersensitivity).

from mild to life-threatening), such as urticaria (hives), skin rash, bronchospasm (constriction of the air passages in the lungs), and angioedema (swelling involving the skin and mucous membranes) have rarely occurred. In addition, albuterol sulfate may cause significant changes in blood pressure, extremely rapid heartbeat, seizures, low potassium levels, and may exacerbate the

symptoms of pre-existent cardiovascular (heart and blood vessel) conditions and

diabetes.

IRRITATION: Products can cause eye irritation; avoid contact with the eyes. Products

are irritating to the nose and throat.

SENSITIZATION: Rarely, exposure to albuterol sulfate can cause an allergic rash with redness and

itching of the skin. Exposure by inhalation can cause an allergic rash, difficultybreat

hing and swelling of the face and airways.

REPRODUCTIVE EFFECTS: Albuterol sulfate causes birth defects in mice. Rare reports of cleft palate and

limb defects have been received in offspring of patients being treated with albuterol sulfate. There are no adequate and well-controlled studies of the effects of albuterol sulfate in pregnant women. Albuterol sulfate should be used

Safety Data Sheet Page 3 of 5 Nephron Pharmaceuticals Corporation

Ipratropium Bromide, 0.5 mg/ Albuterol Sulfate, 3.0 mg Inhalation Solution, USP

during pregnancy only if the potential benefit justifies the potential risk to the fetus. For recommended dosage and administration, Albuterol Sulfate Inhalation Solution3.0mg is classified as "Pregnancy Category C". It is not known

whether this drug is excreted in human milk. A decision should be made whether to discontinue nursing or to discontinue using the drug, taking into account the importance of the drug to the mother. Precautions should be taken to limit the exposure to Albuterol Sulfate Inhalation Solution, 3.0mg while pregnant or nursing: medical evaluation of exposure and attention to compliance with standard operating procedures and/or other workplace health and safety

directives is advised.

GENOTOXICITY: There is no evidence that albuterol sulfate is mutagenic (causing changes in

genetic material) or impairs fertility in standard tests.

CARCINOGENICITY: Albuterol sulfate was not carcinogenic in standard tests with mice and hamsters.

Albuterol sulfate causes benign tumors to rats treated daily for 2 years with doses which are much greater than the recommended maximum dose for human

medical use. The relevance of this finding to humans is not known.

CLINICAL SAFETY: Individuals known to be hypersensitive to β-adrenergic agents like albuterol

sulfate should not be exposed. Persons with cardiovascular disorders (including coronary artery disease, heart rhythm abnormalities and high blood pressure), seizure disorders (epilepsy) hyperthyroidism, or diabetes may experience worsening of symptoms from occupational exposure. Also, persons using Albuterol Sulfate Inhalation Solution, 3.0mg or other medications in the same therapeutic class ( $\beta_2$ -adrenergic receptor agonists), or taking monoamine oxidase inhibitors or tricyclic antidepressants, may have increased sensitivity to

the effects of albuterol sulfate in the occupational setting.

### **SECTION 12: ECOLOGICAL INFORMATION**

ENVIRONMENTAL FATE: Albuterol compartmentalizes into the aquatic environment.

ENVIRONMENTAL EFFECTS: Albuterol is not readily biodegradable in water or soil and is unlikely to

bioaccumulate. It has toxicity to receptors in the aqueous environment at levels

greater than 83.2 mg/L.

ROUTINE Unused product should be disposed of at an approved facility in accordance with

federal, state and local regulations.

### **SECTION 14: TRANSPORT INFORMATION**

Component 1 or Formulation 1: Albuterol Sulfate Inhalation Solution, 3.0mg

**US Department of Transportation** 

Proper Shipping Name: Pharmaceutical for Interstate Commerce

IATA/ICAO

Proper Shipping Name: Not Regulated

IMDG

Proper Shipping Name: Not Regulated

RQ: None Marine Pollutant: No

### **SECTION 15: REGULATORY INFORMATION**

EC PACKAGING AND LABELING FOR SUPPLY: Not applicable.

OTHER LEGISLATION: Not regulated.

Ipratropium Bromide, 0.5 mg/ Albuterol Sulfate, 3.0 mg Inhalation Solution, USP

### **SECTION 16: OTHER INFORMATION**

**REVISION DATE: 02-09-2015** 

REVISION DATE: 07-22-2004 SUPERSEDES: 01-23-2003 REVISION DATE: 06-26-2014 SUPERSEDES: 07-22-2004

TO THE BEST OF OUR KNOWLEDGE THE INFORMATION CONTAINED HEREIN IS ACCURATE AS OF THE DATE HEREOF. ANY DETERMINATION AS TO THE SUITABILITY OF THE PRODUCT FOR ANY PARTICULAR PURPOSE, ITS SAFE USE OR DISPOSAL, SHALL BE THE RESPONSIBILITY OF THE USER. THE INFORMATION CONTAINED HEREIN IS IN NO WAY INTENDED TO SUPPLEMENT, MODIFY, OR SUPERSEDE THE INFORMATION PROVIDED IN THE PRODUCT PACKAGE INSERT WITH RESPECT TO THE USE OF THE PRODUCT FOR MEDICAL PURPOSES. PLEASE REFER TO THE PRODUCT PACKAGE INSERT FOR INFORMATION REGARDING THE USE OF THE PRODUCT FOR MEDICAL PURPOSES.

## **Safety Data Sheet**



1. IDENTIFICATION			
Product Information			
Product name	KENALOG®-10 and 40 mg/ml (triamcino	olone acetonide) Injectable Suspension	
Version	1.0, 24.02.2015		
Jurisdiction	This Safety Data Sheet was prepared in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) for the United States of America (USA) (CFR 1910.1200), European Union (EU) (EC 1272/2008) and United Nations (UN). The following countries utilize the UN GHS classification process: Mexico, Brazil, China, New Zealand, Canada, Japan, Korea and Australia.		
Active substance	Pregna-1,4-diene-3,20-dione, 9-fluoro-11,21-dihydroxy-16,17-[(1-methylethylidene)bis(oxy)]-, (11.beta.,16.alpha.)-		
Synonyms	Sterile Triamcinolone Acetonide Suspension USP; Kenalog-10 Injection; Kenalog-40 Injection; Albicort; Kenacort		
Intended Uses	This material is a finished drug product for patient use. This material is used to provide relief of inflammatory and pruritic skin conditions.		
Company/Undertaking Iden	ntification		
Address	USA Bristol-Myers Squibb Company P.O. Box 191 New Brunswick, New Jersey 08903 United States of America 1-800-332-2056	Ireland Bristol-Myers Squibb Company Swords Laboratories, Watery Lane Swords, Ireland MG-GBS-MSDS-Request@bms.com 353-1813-9456	
Emergency Phone No.	USA (also Canada, Puerto Rico and the Virgin Island): 1-800-424-9300	<u>Ireland</u> : 353-1813-9456	
	Other Countries: See "Section 16" for counCHEMTREC.	ntry-specific emergency phone numbers from	

2. HAZARDS IDENTIFICATION			
Classification and L	Classification and Labelling Common to All Jurisdictions		
Classification	Toxic To Reproduction - Reproductive Toxicity - Category 1A Toxic To Reproduction - Developmental Toxicity - Category 1A Effects On Or Via Lactation		
Symbol			
Signal Word	Danger		
Hazard Statements	May damage fertility (male reproductive toxicity, female reproductive toxicity).  May damage the unborn child (developmental toxicity).  May cause harm to breast-fed children.		
Precautionary	Do not breathe dust.		

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2. HAZARDS IDENTIFICATION		
Statements	Obtain special instructions before use.  Do not handle until all safety precautions have been read and understood.  Avoid contact during pregnancy/while nursing.  Use personal protective equipment as required.	
Classification and La	abelling for Specific Jurisdictions	
USA		
Classification	Specific Target Organ Systemic Toxicity (Repeated Exposure) - Category 1	
Hazard Statements	Causes damage to organs (adrenal glands, bone, muscle, gastrointestinal tract, immune system, eyes, nervous system, skin) through prolonged or repeated exposure.	
Precautionary Statements	Wash thoroughly after handling. Do not eat, drink or smoke when using this product.	
EU		
Classification	Specific Target Organ Systemic Toxicity (Repeated Exposure) - Category 2	
Hazard Statements	May cause damage to organs (adrenal glands, bone, muscle, gastrointestinal tract, immune system, eyes, nervous system, skin) through prolonged or repeated exposure.	
UN		
Classification	Specific Target Organ Systemic Toxicity (Repeated Exposure) - Category 1	
Hazard Statements	Causes damage to organs (adrenal glands, bone, muscle, gastrointestinal tract, immune system, eyes, nervous system, skin) through prolonged or repeated exposure.	
Precautionary Statements	Wash thoroughly after handling. Do not eat, drink or smoke when using this product.	

3. COMPOSITION/INFORMATION ON INGREDIENTS					
				EU only	
Components	Concentration	CAS No.	EC No./REACH Registration No.	Symbol(s)/ R-phrase(s)	H-code(s)
Hazardous components Triamcinolone Acetonide	1 - 4%	76-25-5	200-948-7	T: R60, R61, R64, R66	H360F H360D H362 H372
Benzyl Alcohol	<= 1 %	100-51-6	202-859-9	Xn: R20/22	H302 H332

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			Н335	Ì
Other ingredients				
Non-Hazardous Ingredients > 90 %	Not available		<b></b>	
Other information: Sodium hydroxide and/or hy	ydrochloric acid are	used for p	oH adjustment. See section 16 for	
Symbol, R-phrase and H-code text.				

4. FIRST AID MEASURES	
Eye contact	Rinse immediately with plenty of water for at least 15 minutes. Keep eye wide open while rinsing. If exposed or concerned: Get medical attention/advice.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Discard contaminated clothing or wash before re-use. If exposed or concerned: Get medical attention/advice.
Inhalation	Move to fresh air. Oxygen or artificial respiration if needed. If exposed or concerned: Get medical attention/advice.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If exposed or concerned: Get medical attention/advice.
Notes to Physician	Medical conditions aggravated include: diabetes, liver disorders, infection, immunodeficiency, hypertension, myasthenia gravis, osteoporosis, peptic ulcer, psychotic disorders, colitis, kidney disorders. This product has been reported to interact with the following medications: diuretic, cyclosporine, immunosuppressants, NSAID (non-steroidal antiinflammatory drugs), drugs metabolized by cytochrome P-450, drugs that cause hyperglycemia, oral hypoglycemic drugs, neuromuscular blocking agents, fluoroquinoline antibiotics, certain vaccines, drugs that inhibit cytochrome P-450. Refer to Section 11.
Medical Surveillance	The need for a pre-placement physical examination and history for employees with potential exposure to this compound is to be evaluated by a physician that is thoroughly knowledgeable about both the toxicity of this compound and the extent of work place exposure. Baseline testing would include: blood glucose test, a complete blood count with differential, a blood test for liver function, a blood test for kidney function. Based on opportunity for exposure and duration of exposure a periodic follow-up examination may be considered.  Employees who are pregnant, are breast-feeding, or who are concerned with other reproductive issues should be encouraged to consult with the occupational health physician monitoring worker's health.

5. FIRE-FIGHTING MEASURES		
Flammable Properties	Not available	
Extinguishing Media	Suitable extinguishing media: Dry chemical, Water spray, Foam Unsuitable extinguishing media: Do NOT use water jet.	
Protection of Firefighters	Specific hazards: Refer to HAZARDS IDENTIFICATION section for a description of hazards for this material.  Protective equipment: Use personal protective equipment. In the event of fire, wear self-contained breathing apparatus.  Hazardous Combustion Products: carbon oxides (COx), hydrogen halides  Further Information: HCl gas can form flammable or explosive mixtures with alcohols or metals. In the event of fire and/or explosion do not breathe fumes.	
Other information	Decontaminate protective clothing and equipment before reuse.	

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6. ACCIDENTAL RELEASI	6. ACCIDENTAL RELEASE MEASURES		
Personal precautions	Refer to protective measures listed in sections 7 and 8. Use personal protective equipment. Examples include tightly fitting safety goggles, lab coat and impervious gloves. Wear respiratory protection. Depending on the nature of the spill (quantity and extent of spill) additional protective clothing and equipment such as a self-contained breathing apparatus may be needed.		
Environmental precautions	Prevent release to drains and waterways. Prevent release to the environment.		
Containment Methods	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).		
Cleanup Methods	Contain and collect spillage and place in container for disposal according to local regulations (see Section 13). Clean area with detergent and water after spill pick-up, if appropriate. Handle waste materials, including gloves, protective clothing, contaminated spill cleanup material, etc., as appropriate for chemically and pharmacologically similar materials.		

7. HANDLING AND STORAGE	
Handling Precautions	Avoid exposure - obtain special instructions before use. Avoid inhalation of vapour or mist. Keep away from heat and sources of ignition. Prevent release to drains and waterways.
Container Requirements	Store in sturdy containers appropriate to maintain the integrity of this material for its intended use. Store in spill containment pallet or other device to confine spills.
Storage Conditions	Store at room temperature. Protect against light. Keep away from heat, sparks and flames. Store locked up.
Specific use(s)	Refer to Section 1

8. EXPOSURE CONTROLS / PERSONAL PROTECTION				
Exposure limit(s)	Company Guideline	ACGIH	Germany OEL	UK MEL
Triamcinolone Acetonide	1 μg/m3 8 hour-TWA			
	(Skin)			
Benzyl Alcohol				
Sodium Hydroxide		2 mg/m3 Ceiling		
Hydrochloric Acid		2 ppm Ceiling	5 ppm MAK 7.6 mg/m3 MAK 2 ppm TWA 3 mg/m3 TWA 4 ppm Peak 6 mg/m3 Peak 2 ppm MAK 3.0 mg/m3 MAK	5 ppm STEL 1 ppm TWA 2 mg/m3 TWA

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION	
Benzyl Alcohol	Occupational Exposure Limits have been established by: - Czech Republic - Poland - Latvia
Sodium Hydroxide	Occupational Exposure Limits have been established by: - Austria - Belgium - Switzerland - Czech Republic - Denmark - Estonia - Spain - Finland - France - Greece - Hungary - Ireland - Norway - Poland - Portugal - Sweden - Latvia
Hydrochloric Acid	Occupational Exposure Limits have been established by: - Austria - Belgium - Switzerland - Czech Republic - Denmark - Estonia - Spain - Finland - France - Greece - Hungary - Ireland - Italy - The Netherlands - Norway - Poland - Portugal - Sweden - Latvia
Recommended Industrial Hygiene Monitoring Methods	Contact the Bristol-Myers Squibb AIHA accredited Industrial Hygiene Laboratory at (USA) 732-227-6338.
naomornig naomous	General - The health hazard risk of handling this material is dependent on many factors, including physical form, % API in material being handled, duration and frequency of process task, and effectiveness of controls. If it is necessary to handle this compound outside of engineering controls, an exposure risk assessment should be conducted and procedures documented by a qualified EHS professional.
EXPOSURE CONTRO	DLS / PERSONAL PROTECTION FOR MATERIAL AS SUPPLIED
	ains an active pharmaceutical ingredient (API) with the guideline limit noted above. To keep the nended guideline, the material as supplied should be controlled during handling to limit total sure to: $25 \mu \text{g/m}^3$ .
Engineering Controls and Ventilation	FOR MANUFACTURING PROCESSES (BULK): Use process enclosures, containment technology, or other engineering controls to keep airborne levels below recommended exposure limit. When handling quantities up to 150 milligrams, a standard laboratory with general laboratory dilution ventilation (e.g. 6-12 air changes per hour) is appropriate. When handling quantities from 150 milligrams to 1 kilogram, work in a standard laboratory using a fume hood; biological safety cabinet(Class II, all types); and, approved vented enclosure. Quantities exceeding 1 kilogram should be handled in a designated laboratory using laminar flow/powder containment booth. When handling solutions with low energy operations (pipette transfers, pouring, low velocity stirring, fraction collection, etc.) use protective shielding to limit the spread of splash or splatter. For manufacturing and pilot plant operations, use direct coupling and closed transfer systems for all bulk transfers. Use dust tight valves as appropriate. HEPA filtration of local exhaust ventilation (LEV) is required. FOR CLINICAL SETTING USE (DRUG PRODUCT): When handling small quantities in a clinical setting, good room ventilation is desirable. Specific engineering controls should not be needed.
Respiratory protection	Use and selection of respiratory protection is based upon engineering controls in use and potential for aerosol generation. When engineering controls are not sufficient control exposure, wear an approved respirator with NIOSH Class 100 or high efficiency particulate (HEPA) filters or cartridges (EN 140/EN 136) when exposures are up to 10 times the exposure control guideline. Wear a loose-fitting (Tyvek or helmet type) HEPA powered-air purifying respirator (PAPR) (EN 12941) when exposures are 10-25 times the exposure control guideline. Wear a full facepiece negative pressure respirator with Class 100 or HEPA filters (EN 136) when exposures are 25-50 times the exposure control guideline. Wear a tight-fitting, full facepiece HEPA PAPR (EN 12942) when exposures are 50-100 times the exposure control guideline. Wear a hood-shroud HEPA PAPR (EN 12941) or full facepiece supplied air respirator (EN 139) operated in a pressure demand or other positive pressure mode when exposures are 100-1000 times the exposure control guideline.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION	
Eye protection	Safety glasses with side-shields are recommended (EN 166). Face shields or chemical safety goggles (EN 166) may be required if splash potential exists or if corrosive materials are present. Note: Choice of eye protection may be influenced by the type of respirator which is selected.
Hand protection	Impervious nitrile, rubber and latex gloves are recommended (EN 420, EN 374). If material is handled in solution, the solvent should also be considered when selecting protective clothing material. Please note that employees who are allergic to natural rubber latex should use nitrile gloves.
Skin and body protection	Wear a laboratory coat (EN 340) when handling quantities up to 1 kilogram. For quantities over 1 kilogram, wear laboratory coat(EN 340)or coverall of low permeability (EN 1149-1). For manufacturing operations, wear coverall of low permeability (EN 465/1149-1). For manufacturing operations, wear coverall of low permeability.
Hygiene	Wash hands and face before breaks and immediately after handling the product.
Environmental exposure controls	Prevent release to drains and waterways.

9. PHYSICAL AND CHEMICAL PROPERTIES	
General Information	
Appearance	
Physical State	liquid
Color	white to off-white
Form	suspension
Odour	
Odour	Not remarkable.
Odor Threshold	Not available
рН	5 - 7
Other information	
Bulk density	Not available
Evaporation rate	Not available
Molecular formula	Not applicable
Hydrolysis/Photolysis	Not available
Hygroscopicity	Not available
Molecular Weight	Not applicable
Log Octanol/Water Partition	Not available
Coefficient [log Kow]	
Surface Tension	Not available
pKa	Not available
Particle Size	Not available
Solubility, Water	soluble
Specific Gravity/ Relative density	1.015
Viscosity, dynamic	similar to water
Viscosity, kinematic	Not available
% Volatile	Not available

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9. PHYSICAL AND CHEMICAL PROPERTIES		
Thermal/Stability properties		
Autoignition temperature	Not available	
Boiling Point	100 °C	
Thermal decomposition	Not available	
Explosive Limits, LEL	Not available	
Explosive limits, UEL	Not available	
Explosiveness	Not available	
Flammability	Not available	
Flash point	Not available	
Melting Point	0 °C	
Oxidizing Potential	Not available	
Vapor Properties		
Vapor Density	(Air =1): If adequate temperatures caused material to volatize, its vapor	
	density would be much greater than 1. (Heavier than air)	
Vapor Pressure	Not available	
Saturated Vapor Concentration	Not available	

10. STABILITY AND REACTIVITY		
Stability		
Chemical Stability	Stable under normal conditions.	
Conditions to avoid	Not available	
Materials to avoid	Not available	
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions.: carbon oxides (COx), hydrogen halides	
Hazardous reactions	Not available	
Sensitivity to static di	Sensitivity to static discharge/Dust exp.	
Summary Statements	not applicable	

11. TOXICOLOGICAL INFORMATION	
Routes of Entry	Ingestion, inhalation, Eye contact, Skin contact
Eye Irritation	Triamcinolone Acetonide Mildly and/or transiently irritating to eyes  Benzyl Alcohol Irritating to eyes.
Skin Irritation	Triamcinolone Acetonide

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11. TOXICOLOGICA	L INFORMATION
	Repeated exposure may cause skin dryness or cracking. skin thinning
	Benzyl Alcohol Mildly irritating to skin
Respiratory Irritation	Triamcinolone Acetonide  May cause irritation of respiratory tract.
	Benzyl Alcohol Irritating to respiratory tract.
Sensitization	Triamcinolone Acetonide  Not a dermal sensitizer Allergic contact dermatitis is quite rare but has been reported.
	<u>Benzyl Alcohol</u> Several studies were conducted. The results were negative and positive. Only rare mild cutaneous sensitization reactions have been observed in adults.
Acute Toxicity Study	Acute Oral Triamcinolone Acetonide LD50 (mouse): 5,000 mg/kg
	Benzyl Alcohol LD50 (rat): 1,230 mg/kg LD50 (mouse): 1,360 mg/kg LD50 (rabbit): 1,040 mg/kg LD50 (guinea pig): 2,500 mg/kg
	Acute Dermal Benzyl Alcohol LD50 (rabbit): 2,000 mg/kg
	Acute inhalation toxicity  Benzyl Alcohol  LC50 (rat): 8.8 mg/l/4 H
	Acute toxicity (other routes of administration)  Triamcinolone Acetonide  LD50 (rat, subcutaneous): 13.1 mg/kg  LD50 (mouse, subcutaneous): 132 mg/kg  LD50 (mouse, intraperitoneal): 105 mg/kg
Repeated Dose Toxicity	Benzyl Alcohol 16 D - 24 months oral (daily) rat, mouse study (males and females): LOAEL = 200 mg/kg; High dose effects include: irregular respiration, lethargy, abnormal gait, decreased weight gain, mortality. High dose microscopic effects include: kidney, brain, muscle, thymus.

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11.	IOXICOL	OGICAL IN	FORMATION
	•		

### Genetic Toxicity

### Triamcinolone Acetonide

### In vitro

Ames reverse-mutation assay -- negative Forward gene mutation assay -- negative

### **Mutagenicity Assessment**

Several studies were conducted. The weight of evidence demonstrates that this material is not genotoxic.

### Benzyl Alcohol

### **Mutagenicity Assessment**

The weight of evidence demonstrates that this material is not genotoxic.

### Carcinogenicity

### Triamcinolone Acetonide

- 2 years oral (daily) rat study : Tumor NOAEL = 0.001 mg/kg No treatment-related tumors were observed.
- 2 years oral (daily) mouse study : Tumor NOAEL = 0.003 mg/kg No treatment-related tumors were observed.
- 2 years drinking water (daily) rat study: Tumor LOAEL = 0.0048 mg/kg [tumor organs: liver]

### **Carcinogenicity Assessment**

Not classifiable as to its carcinogenicity to humans.

### Benzyl Alcohol

- 2 Years oral (5/week) rat study : Tumor NOAEL = 400 mg/kg (males and females). No treatment-related tumors were observed.
- 2 Years oral (5/week) mouse study: Tumor NOAEL = 200 mg/kg (males and females). No treatment-related tumors were observed.

### **Carcinogenicity Assessment**

This material did not show carcinogenic potential in animal studies.

Carcinogenicity	ACGIH	IARC	NTP
Triamcinolone Acetonide			
Benzyl Alcohol			

## Reproductive Toxicity

### Triamcinolone Acetonide

### **Assessment Reproductive Toxicity**

Several studies were conducted. May impair fertility. Maternal effects include: menstrual irregularities . Paternal effects include: sperm abnormalities See "Human Experience". See also "Developmental Toxicity" for information on reproductive effects.

## Developmental Toxicity

### Triamcinolone Acetonide

### **Developmental Toxicity Assessment**

Several developmental studies were conducted. Birth defects were observed in animal studies. Compound may be toxic during early embryonic development. Teratogen This compound and/or its metabolites may be excreted into the milk. May cause harm to breastfed babies.

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### 11. TOXICOLOGICAL INFORMATION

### Benzyl Alcohol

### **Developmental Toxicity Assessment**

Limited data are available.

#### Human experience **Experiences with Human Exposure**

### Triamcinolone Acetonide

General effects therapeutic use low exposure - acute effects include: muscle weakness, muscle pain, bone fractures, infection, oedema, headache, difficulty sleeping, vertigo, restlessness, euphoria, mental disturbance, depression, anxiety, mood changes, seizure disorders, nosebleeds, cough, fever, nausea, anaphylaxis, vomiting, anorexia, gastrointestinal disturbance, sore throat, dry mouth, taste disturbance, speech difficulty, congestion, redness and swelling of eyes, vision changes, facial swelling, allergic reactions, skin thinning, acne, redness and swelling of skin, hives, bruising, superficial burning sensation, tingling, increase in blood pressure, Cushing's syndrome, electrolyte disturbance, hyperglycemia, adrenocortical insufficiency, withdrawal symptoms, osteoporosis, bone effects, menstrual irregularities, impaired spermatogenesis, cataracts, glaucoma, nose changes, otitis, peptic ulcer, psychiatric disorders, pancreatitis, changes in white blood cell parameters, alopecia, asthma, growth retardation, skin effects, injection site reactions, cardiac disorders, death.

### Benzyl Alcohol

See also symptoms below.

#### **Target Organs** Triamcinolone Acetonide

adrenal glands, bone, muscle, gastrointestinal tract, immune system, eyes, nervous system, skin, female reproductive organs, male reproductive organs

### Benzyl Alcohol

central nervous system

#### Symptoms Triamcinolone Acetonide

See "Human Experience".

### Benzyl Alcohol

nausea, vomiting, diarrhoea, CNS depression, dizziness, headache, vision changes, rash, redness and swelling of skin, vertigo, delirium

### Pharmacokinetics/

Triamcinolone Acetonide **Toxicokinetics** Absorption: Not available

Distribution: Not available Metabolism: Not available

Elimination: Half-life = 2 - 3 Hour(s) (Human).

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11. TOXICOLOGICAL INFORMATION		
Other Toxicity Information	Not available	
Other Information:	This SDS may contain toxicological and/or pharmacological information derived from either the specified product or from compounds in the same pharmacological class.	

### 12. ECOLOGICAL INFORMATION

### **Ecotoxicity effects**

### **Acute Toxicity to Fish**

Benzyl Alcohol

LC50 (Pimephales promelas, 96 H): 460 mg/l. LC50 (Lepomis macrochirus, 96 H): 10 mg/l.

### **Acute Toxicity to Aquatic Invertebrates**

Triamcinolone Acetonide

EC50 (Daphnia magna (Water flea), 48 H): > 100 mg/l.

Benzyl Alcohol

EC50 (water flea, 48 H): 23 mg/l.

### Toxicity to aquatic plants

Benzyl Alcohol

EC50 (Anabaena variabilis, 3 H): 35 mg/l

### **Toxicity to microorganisms**

Benzyl Alcohol

EC50 (Photobacterium phosphoreum, 30 Minute): 71.4 mg/l

### Mobility Not available

### Persistence and degradability

### Biodegradation

Triamcinolone Acetonide

Ultimate aerobic biodegradation (28 D): 3 %; Not Readily Biodegradable - unlikely to undergo rapid biodegradation in the environment

Benzyl Alcohol

Ready biodegradation (30 D): > 90 %; Readily biodegradable - rapidly biodegrades in the environment

### **Summary Statements**

### **Chemical Fate**

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Not readily biodegradable.

PBT and vPvB assessment Not available

13. DISPOSAL CONSIDERATIONS			
Advice On Disposal And Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements. This information presented only applies to the material as supplied.		
Other information	Disposal by incineration is recommended.		

### 14. TRANSPORT INFORMATION

This material is not a dangerous good for the purpose of transportation in all modes.

Bristol-Myers Squibb Company 000000000782

**Page** 12 of 14

### 15. REGULATORY INFORMATION

### **United States of America**

313 Toxic Release

Inventory

No components listed on the SARA 313 inventory.

TSCA Inventory

Not listed. Food, drug and cosmetic products are exempt from TSCA.

### EU Directive 1999/45/EC

### **BULK MATERIAL**

Symbol(s) T: Toxic

R-phrase(s) R60: May impair fertility.

R61: May cause harm to the unborn child. R64: May cause harm to breastfed babies.

S-phrase(s) S23: Do not breathe gas/fumes/vapour/spray.

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection. S38: In case of insufficient ventilation, wear suitable respiratory equipment.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show label

where possible).

Not available

S53: Avoid exposure - obtain special instructions before use.

### **DRUG PRODUCT**

Classification Medicinal products are exempt from classification and labeling requirements under EU

Preparations Directive 1999/45/EC.

Regulatory

Authorizations and

16. OTHER INFORMATION

SDS preparation information

Restrictions:

Text of Symbol(s), R-phrase(s) and H-code	e(s) mentioned in Section 3			
H302	H302 Harmful if swallowed.			
H332	Harmful if inhaled.			
H335	May cause respiratory irritation.			
H360D	H360D May damage the unborn child			
H360F	May damage fertility			
H362				
H372	H372 Causes damage to organs through prolonged or repeated exposure.			
R20/22	Harmful by inhalation and if swallowed.			
R60	May impair fertility.			
R61	R61 May cause harm to the unborn child.			
R64	R64 May cause harm to breastfed babies.			
R66	R66 Repeated exposure may cause skin dryness or cracking.			
T	T Toxic			
Xn	Harmful			
Recommended Restrictions for Use:				
Not avails	able			

KENALOG®-10 and 40 mg/ml (triamcinolone acetonide) Injectable Suspension	Bristol-Myers Squibb Company 00000000782	<b>Page</b> 13 of 14
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Prepared by	Research and Development Environment, Health and Safety 1-732-227-7380		
Prepared on	24.02.2015 DD/MM/YYYY		
	This Safety Data Sheet was reformatted in accordance with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS) for the United States of America (USA) (CFR 1910.1200), European Union (EU) (EC 1272/2008) and United Nations (UN).		
Other information			
HMIS	Health	2*	
	Flammability	Not Determined (ND)	
	Reactivity	Not Determined (ND)	
	Personal protective equipment	See Section 8.	
NFPA	Health 2 Fire ND Reactivity ND Special ND	ND ND ND	

# Bristol-Myers Squibb Company 000000000782

**Page** 14 of 14

Country- Specific Emergen	сy
Phone Numbers	

CHEMTREC  In-Country Dial Numbers	Local & Provided in Country	Tall Free in Country*	Greeting Language
CHEMTREC South Africa*		0-800-983-611	English
CHEMTREC Argentina (Buenos Aires)	+(54)-1159839431		Latin American Spanish
CHEMTREC Brazil (Rio De Janeiro)	+(55)-2139581449		Portuguese
CHEMTREC Chile (Santiago)	+(56)-25814934		Latin American Spanish
CHEMTREC Colombia *		01800-710-2151	Latin American Spanish
CHEMTREC Mexico*		01-800-681-9531	Latin American Spanish
CHEMTREC Peru (Lima)	+(51)-17071295		Latin American Spanish
CHEMTREC China*	4001-204937		Mandarin
CHEMTREC Hong Kong (Hang Kong)*		800-968-793	Cantonese
CHEMTREC India *		000-800-100-7141	Hindi
CHEMTREC Indonesia*		001-803-017-9114	Indonesian
CHEMTREC Japan (Tokyo)	+(81)-345209637		Japanese
CHEMTREC Malaysia *		1-800-815-308	Malay
CHEMTREC Philippines *		1-800-1-116-1020	Tagalog
CHEMTREC Singapore*		800-101-2201	Mandarin
CHEMTREC Singapore	+(65)-31581349		Mandarin
CHEMTREC South Korea*		00-308-13-2549	Korean
CHEMTREC Taiwsm*		00801-14-8954	Mandarin
CHEMTREC Thailand *		001-800-13-203- 9987	Thai
CHEMTREC Vietnam (Ho Chi Minh City)	+(84)-838012435		Vietnamese
CHEMTREC Australia (Sydney)	+(61)-290372994		English
CHEMTREC Belgium (Brussels)	+(32)-28083237		French and Flemish
CHEMTREC Czech Republic (Prazue)	+(420)-228880039		Czech
CHEWTREC France	+(33)-975181407		French
CHEMTREC Germany *		0800-181-7059	German
CHEMTREC Hungary (Budapest)	e(36)-18088475		Hungarian
CHEMITREC Italy *		800-789-767	Italian
CHEMTREC Italy (Milan)	+(39)-0245557031		Italian
CHEMITREC Netherlands	+(31)-858880596		Dutch
CHEMTREC Poland (Warsaw)	+(48)-223988029		Polish
CHEMTREC Spain!"		900-868538	European Spanish
CHEMITREC Sweden (Stockhalm)	+(46)-852503403		Swedish
CHEMTREC Switzerland (Zurich)	+(+1)-435016715		German
CHEMTREC UK (Landon)	+(44)-870-8200418		English
CHEMTREC Bahrain (Bahrain)	+(973)-16199372		Arabic
CHEMTREC (srael (Tel Aviv)	+(972)-37630639		Hebrew

The information contained in this SDS is believed to be accurate and represents the best information reasonably available at the time of preparation. However, we make no warranty, express or implied, with respect to such information, and we assume no liability from its use.

Page 1 of 10



### **SAFETY DATA SHEET**

Revision date: 26-Jul-2017 Version: 1.1

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

**Product Identifier** 

Material Name: Lidocaine Hydrochloride Injection (Hospira, Inc.)

Trade Name:
Synonyms:
Chemical Family:
Lignocaine Injection
Lidocaine
Not determined

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Intended Use: Pharmaceutical product anesthetic agent

**Details of the Supplier of the Safety Data Sheet** 

Hospira, A Pfizer Company 275 North Field Drive Lake Forest, Illinois 60045

1-800-879-3477

Hospira UK Limited

Horizon Honey Lane Hurley

Maidenhead, SL6 6RJ United Kingdom

**Emergency telephone number:** 

International CHEMTREC (24 hours): +1-703-527-3887

Emergency telephone number:

CHEMTREC (24 hours): 1-800-424-9300
Contact E-Mail: pfizer-MSDS@pfizer.com

### 2. HAZARDS IDENTIFICATION

**Classification of the Substance or Mixture** 

GHS - Classification Not classified as hazardous

**Label Elements** 

Signal Word: Not Classified

Hazard Statements: Not classified in accordance with international standards for workplace safety.

Other Hazards An Occupational Exposure Value has been established for one or more of the ingredients (see

Section 8).

Note: This document has been prepared in accordance with standards for workplace safety, which

requires the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warning included may not apply in all cases.

Your needs may vary depending upon the potential for exposure in your workplace.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

### Hazardous

Material Name: Lidocaine Hydrochloride Injection (Hospira, Page 2 of 10

Inc.)

Revision date: 26-Jul-2017 Version: 1.1

Ingredient	CAS Number	EU EINECS/ELINCS	GHS Classification	%
		List		
_idocaine Hydrochloride	73-78-9	200-803-8	Acute Tox.4 (H302)	1-2
Sodium chloride	7647-14-5	231-598-3	Not Listed	*
SODIUM HYDROXIDE	1310-73-2	215-185-5	Skin Corr. 1A (H314)	**
HYDROCHLORIC ACID	7647-01-0	231-595-7	Skin Corr.1B (H314)	**
			STOT SE 3 (H335)	

Ingredient	CAS Number	EU EINECS/ELINCS	GHS Classification	%
		List		
Water for injection	7732-18-5	231-791-2	Not Listed	*

Additional Information: \* Proprietary

\*\* to adjust pH

Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety. In accordance with 29 CFR 1910.1200, the exact percentage composition of this

mixture has been withheld as a trade secret.

For the full text of the CLP/GHS abbreviations mentioned in this Section, see Section 16

### 4. FIRST AID MEASURES

**Description of First Aid Measures** 

Eye Contact: Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention

immediately.

**Skin Contact:** Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek

medical attention.

Ingestion: Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not

induce vomiting unless directed by medical personnel. Seek medical attention immediately.

**Inhalation:** Remove to fresh air and keep patient at rest. Seek medical attention immediately.

Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms and Effects of For information on potential signs and symptoms of exposure, See Section 2 - Hazards

**Exposure:** Identification and/or Section 11 - Toxicological Information.

Medical Conditions None known

Aggravated by Exposure:

Indication of the Immediate Medical Attention and Special Treatment Needed

Notes to Physician: None

### 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** Extinguish fires with CO2, extinguishing powder, foam, or water.

Special Hazards Arising from the Substance or Mixture

**Hazardous Combustion** Formation of toxic gases is possible during heating or fire.

**Products:** 

Fire / Explosion Hazards: Fine particles (such as dust and mists) may fuel fires/explosions.

Material Name: Lidocaine Hydrochloride Injection (Hospira, Page 3 of 10

Inc.)

Revision date: 26-Jul-2017 Version: 1.1

### **Advice for Fire-Fighters**

During all fire fighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.

#### **Environmental Precautions**

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

### Methods and Material for Containment and Cleaning Up

Measures for Cleaning / Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean spill

Collecting: area thoroughly.

**Additional Consideration for** 

Contain the source of the spill or leak if it is safe to do so. Collect spill with a non-combustible Large Spills:

absorbent material and transfer to labeled container for disposal.

### 7. HANDLING AND STORAGE

### **Precautions for Safe Handling**

Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. When handling, use appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. Releases to the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of process emissions of this material to the atmosphere should be controlled with dust collectors, HEPA filtration systems or other equivalent controls.

### Conditions for Safe Storage, Including any Incompatibilities

Store as directed by product packaging. Storage Conditions:

Specific end use(s): Pharmaceutical drug product

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Control Parameters**

Refer to available public information for specific member state Occupational Exposure Limits.

### Sodium chloride

Latvia OEL - TWA 5 mg/m<sup>3</sup> Lithuania OEL - TWA 5 mg/m<sup>3</sup>

### SODIUM HYDROXIDE

2 mg/m<sup>3</sup> **ACGIH Ceiling Threshold Limit:** 2 mg/m<sup>3</sup> **Australia PEAK** 2 mg/m<sup>3</sup> Austria OEL - MAKs 2.0 mg/m<sup>3</sup> **Bulgaria OEL - TWA** 1 mg/m<sup>3</sup> Czech Republic OEL - TWA 1 mg/m<sup>3</sup> **Estonia OEL - TWA** France OEL - TWA 2 mg/m<sup>3</sup> **Greece OEL - TWA** 2 mg/m<sup>3</sup>  $2 \text{ mg/m}^3$ **Hungary OEL - TWA** 2 mg/m<sup>3</sup> Japan - OELs - Ceilings Latvia OEL - TWA 0.5 mg/m<sup>3</sup> **OSHA - Final PELS - TWAs:** 2 mg/m<sup>3</sup>

Material Name: Lidocaine Hydrochloride Injection (Hospira, Page 4 of 10

Inc.)

Revision date: 26-Jul-2017 Version: 1.1

8. EXPOSURE CONTROLS / PERSONAL PROTECTION			
Poland OEL - TWA	0.5 mg/m <sup>3</sup>		
Slovakia OEL - TWA	2 mg/m <sup>3</sup>		
Slovenia OEL - TWA	2 mg/m <sup>3</sup>		
Sweden OEL - TWAs	1 mg/m <sup>3</sup>		
Switzerland OEL -TWAs	2 mg/m <sup>3</sup>		
	•		
HYDROCHLORIC ACID			
ACGIH Ceiling Threshold Limit:	2 ppm		
Australia PEAK	5 ppm 7.5 mg/m³		
Austria OEL - MAKs	5 ppm 8 mg/m³		
Belgium OEL - TWA	5 ppm 8 mg/m <sup>3</sup>		
Bulgaria OEL - TWA	5 ppm		
-	8.0 mg/m <sup>3</sup>		
Cyprus OEL - TWA	5 ppm		
On the Daniella OFL TIMA	8 mg/m <sup>3</sup>		
Czech Republic OEL - TWA Estonia OEL - TWA	8 mg/m³		
EStoria GEL - TWA	5 ppm 8 mg/m³		
Germany - TRGS 900 - TWAs	2 ppm 3 mg/m <sup>3</sup>		
Germany (DFG) - MAK	2 ppm		
	3.0 mg/m <sup>3</sup>		
Greece OEL - TWA	5 ppm 7 mg/m³		
Hungary OEL - TWA	8 mg/m <sup>3</sup>		
Ireland OEL - TWAs	5 ppm		
	8 mg/m <sup>3</sup>		
Italy OEL - TWA	5 ppm 8 mg/m³		
Japan - OELs - Ceilings	2 ppm		
	3.0 mg/m <sup>3</sup>		
Latvia OEL - TWA	5 ppm 8 mg/m³		
Lithuania OEL - TWA	5 ppm		
Littidailla OEL - I WA	8 mg/m <sup>3</sup>		
Luxembourg OEL - TWA	5 ppm		
	8 mg/m <sup>3</sup>		
Malta OEL - TWA	5 ppm		
	8 mg/m <sup>3</sup>		
Netherlands OEL - TWA	8 mg/m <sup>3</sup>		
Poland OEL - TWA	5 mg/m <sup>3</sup>		
Portugal OEL - TWA	5 ppm 8 mg/m³		
Romania OEL - TWA	5 ppm		
Slovakia OEL TWA	8 mg/m <sup>3</sup>		
Slovakia OEL - TWA	5 ppm 8.0 mg/m³		
Slovenia OEL - TWA	5 ppm		
C.OTOING OLL TITA	8 mg/m <sup>3</sup>		
	<b>▼</b>		

Material Name: Lidocaine Hydrochloride Injection (Hospira, Page 5 of 10

Inc.)

Revision date: 26-Jul-2017 Version: 1.1

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Spain OEL - TWA 5 ppm

7.6 mg/m<sup>3</sup>

Switzerland OEL -TWAs 2 ppm 3.0 mg/m³

Vietnam OEL - TWAs 5 mg/m<sup>3</sup>

Lidocaine Hydrochloride

Pfizer Occupational Exposure OEB 2 (control exposure to the range of 100ug/m<sup>3</sup> to < 1000ug/m<sup>3</sup>)

Band (OEB):

Sodium chloride

Pfizer Occupational Exposure OEB 1 (control exposure to the range of 1000ug/m³ to 3000ug/m³)

Band (OEB):

**Exposure Controls** 

**Engineering Controls:** Engineering controls should be used as the primary means to control exposures. General

room ventilation is adequate unless the process generates dust, mist or fumes. Keep airborne

Refer to applicable national standards and regulations in the selection and use of personal

contamination levels below the exposure limits listed above in this section.

**Personal Protective** 

**Equipment:** protective equipment (PPE). Contact your safety and health professional or safety equipment

supplier for assistance in selecting the correct protective clothing/equipment based on an assessment of the workplace conditions, other chemicals used or present in the workplace and

specific operational processes.

**Hands:** Impervious gloves (e.g. Nitrile, etc.) are recommended if skin contact with drug product is

possible and for bulk processing operations. (Protective gloves must meet the standards in

accordance with EN374, ASTM F1001 or international equivalent.)

**Eyes:** Wear safety glasses or goggles if eye contact is possible. (Eye protection must meet the

standards in accordance with EN166, ANSI Z87.1 or international equivalent.)

**Skin:** Impervious protective clothing is recommended if skin contact with drug product is possible and

for bulk processing operations. (Protective clothing must meet the standards in accordance

with EN13982, ANSI 103 or international equivalent.)

Respiratory protection: Under normal conditions of use, if the applicable Occupational Exposure Limit (OEL) is

exceeded, wear an appropriate respirator with a protection factor sufficient to control exposures to below the OEL (e.g. particulate respirator with a half mask, P3 filter). (Respirators must meet the standards in accordance with EN140, EN143, ASTM F2704-10 or international

**Molecular Weight:** 

Mixture

equivalent.)

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:SolutionColor:Clear, colorlessOdor:No data available.Odor Threshold:No data available.

Molecular Formula: Mixture

Solvent Solubility: No data available Water Solubility: No data available

nH: 5-

Melting/Freezing Point (°C):

Boiling Point (°C):

No data available.

No data available.

Partition Coefficient: (Method, pH, Endpoint, Value)

Lidocaine Hydrochloride

No data available

Material Name: Lidocaine Hydrochloride Injection (Hospira, Page 6 of 10

Inc.)

Revision date: 26-Jul-2017 Version: 1.1

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Water for injection
No data available
Sodium chloride
No data available
HYDROCHLORIC ACID

No data available

**SODIUM HYDROXIDE**No data available

**Decomposition Temperature (°C):** No data available.

Evaporation Rate (Gram/s):

Vapor Pressure (kPa):

Vapor Density (g/ml):

Relative Density:

No data available

Flammablity:

Autoignition Temperature (Solid) (°C):

Flammability (Solids):

Flash Point (Liquid) (°C):

Upper Explosive Limits (Liquid) (% by Vol.):

Lower Explosive Limits (Liquid) (% by Vol.):

No data available

No data available

No data available

### 10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use.

Possibility of Hazardous Reactions

Oxidizing Properties: No data available

**Conditions to Avoid:** Fine particles (such as dust and mists) may fuel fires/explosions. **Incompatible Materials:** As a precautionary measure, keep away from strong oxidizers

Hazardous Decomposition No data available

Products:

### 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

**General Information:** There are no data for this formulation. The information included in this section describes the

potential hazards of the individual ingredients.

Short Term: Harmful if swallowed May cause mild eye irritation. May cause slight skin irritation. (based on

components) Drugs of this class have been associated with rare, but potentially serious cardiac events. These events have not been observed from occupational exposures, however, those with preexisting cardiovascular illnesses may be at increased risk from exposure.

Known Clinical Effects:

Adverse effects associated with therapeutic use include dizziness, nervousness, agitation, drowsiness, apprehension, euphoria, blurred/double vision, slurred speech, tremors,

convulsions, and seizure. Respiratory depression and arrest may follow. Other, more serious

Minusions, and seizure. Respiratory depression and arrest may follow. Other, more sen-

effects seen with IV use of this drug, particularly when it is administered rapidly, are cardiovascular collapse, central nervous system depression, and/or hypotension.

Acute Toxicity: (Species, Route, End Point, Dose)

Lidocaine Hydrochloride

Material Name: Lidocaine Hydrochloride Injection (Hospira, Page 7 of 10

Inc.)

Revision date: 26-Jul-2017 Version: 1.1

### 11. TOXICOLOGICAL INFORMATION

Oral LD50 317 mg/kg Rat Para-periosteal LD50 25mg/kg LD50 133mg/kg Rat Intraperitoneal Mouse Oral LD50 292mg/kg 19.5mg/kg Mouse Intravenous LD50

### Sodium chloride

Rat Oral LD50 3000 mg/kg Mouse Oral LD50 4000 mg/kg

### HYDROCHLORIC ACID

Rat Oral LD 50 238-277 mg/kg

Irritation / Sensitization: (Study Type, Species, Severity)

### Lidocaine Hydrochloride

Eye Irritation Rabbit Mild Skin Irritation Rabbit Mild

### Sodium chloride

Eye Irritation Rabbit Moderate Skin Irritation Rabbit Mild

### Reproduction & Developmental Toxicity: (Study Type, Species, Route, Dose, End Point, Effect(s))

### Lidocaine Hydrochloride

Embryo / Fetal Development Subcutaneous 30 mg/kg Rat NOAEL Not teratogenic Embryo / Fetal Development 56 mg/kg Not Teratogenic Rat Intraperitoneal NOAEL Embryo / Fetal Development Rat 72 mg/kg/day NOAEL Not Teratogenic Intraperitoneal Embryo / Fetal Development Rat Intravenous 500 mg/kg/day LOAEL Fetotoxicity Embryo / Fetal Development Intraperitoneal 6 mg/kg LOAEL Developmental toxicity

### Genetic Toxicity: (Study Type, Cell Type/Organism, Result)

### Lidocaine Hydrochloride

Bacterial Mutagenicity (Ames) Salmonella , E. coli Negative
In Vitro Chromosome Aberration Human Lymphocytes Negative
In Vivo Micronucleus Mouse Negative

### HYDROCHLORIC ACID

Bacterial Mutagenicity (Ames) Salmonella Negative

In Vivo Micronucleus Rat Negative

Carcinogen Status: None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

HYDROCHLORIC ACID

IARC: Group 3 (Not Classifiable)

Material Name: Lidocaine Hydrochloride Injection (Hospira, Page 8 of 10

Inc.)

Revision date: 26-Jul-2017 Version: 1.1

### 12. ECOLOGICAL INFORMATION

**Environmental Overview:** Environmental properties have not been thoroughly investigated. Releases to the environment

should be avoided.

Toxicity: No data available

Persistence and Degradability: No data available

Bio-accumulative Potential: No data available

Mobility in Soil: No data available

### 13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Dispose of waste in accordance with all applicable laws and regulations. Member State

specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental

releases. This may include destructive techniques for waste and wastewater.

### 14. TRANSPORT INFORMATION

The following refers to all modes of transportation unless specified below.

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

### 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Lidocaine Hydrochloride

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Not

Sodium chloride

231-791-2

5000 lb

Material Name: Lidocaine Hydrochloride Injection (Hospira, Page 9 of 10

Inc.)

Revision date: 26-Jul-2017 Version: 1.1

15. REGULATORY INFO	RMATION
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CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Eisted

Not

#### Water for injection

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

REACH - Annex IV - Exemptions from the obligations of Register:

### **SODIUM HYDROXIDE**

**EU EINECS/ELINCS List** 

**CERCLA/SARA 313 Emission reporting** Not Listed **CERCLA/SARA Hazardous Substances** 1000 lb and their Reportable Quantities: 454 kg **California Proposition 65** Not Listed Inventory - United States TSCA - Sect. 8(b) Present Present Australia (AICS): Standard for the Uniform Scheduling Schedule 5 for Drugs and Poisons: Schedule 6 **EU EINECS/ELINCS List** 215-185-5

### HYDROCHLORIC ACID

CERCLA/SARA 313 Emission reporting 1.0 %
CERCLA/SARA Hazardous Substances 5000 lb
and their Reportable Quantities: 2270 kg
CERCLA/SARA - Section 302 Extremely Hazardous 500 lb

**TPQs** 

**CERCLA/SARA - Section 302 Extremely Hazardous** 

**Substances EPCRA RQs** 

California Proposition 65
Inventory - United States TSCA - Sect. 8(b)
Australia (AICS):
Standard for the Uniform Scheduling
for Drugs and Poisons:
Schedule 6
EU EINECS/ELINCS List

Not Listed
Not Listed
Present
Schedule 5
Schedule 5
Schedule 6
231-595-7

### 16. OTHER INFORMATION

### Text of CLP/GHS Classification abbreviations mentioned in Section 3

Acute toxicity, oral-Cat.4; H302 - Harmful if swallowed Skin corrosion/irritation-Cat.1A; H314 - Causes severe skin burns and eye damage Specific target organ toxicity, single exposure; Respiratory tract irritation-Cat.3; H335 - May cause respiratory irritation

**Data Sources:** Publicly available toxicity information. Pfizer proprietary drug development information. Safety data sheets for individual ingredients.

Material Name: Lidocaine Hydrochloride Injection (Hospira, Page 10 of 10

Inc.)

Prepared by:

Revision date: 26-Jul-2017 Version: 1.1

**Reasons for Revision:** Updated Section 1 - Identification of the Substance/Preparation and the Company/Undertaking.

Updated Section 16 - Other Information.

Revision date: 26-Jul-2017

Product Stewardship Hazard Communication
Pfizer Global Environment, Health, and Safety Operations

Pfizer Inc believes that the information contained in this Material Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

**End of Safety Data Sheet** 

## SAFETY DATA SHEET



Lysol® Brand III Disinfectant Spray, All Scents

## 1. Product and company identification

Product name : Lysol® Brand III Disinfectant Spray, All Scents

Distributed by : Reckitt Benckiser LLC.

Morris Corporate Center IV

399 Interpace Parkway (P.O. Box 225) Parsippany, New Jersey 07054-0225

+1 973 404 2600

**Emergency telephone** 

number (Medical)

: 1-800-338-6167

Emergency telephone

: 1-800-424-9300 (U.S. & Canada) CHEMTREC

number (Transport)

Outside U.S. and Canada (North America), call Chemtrec:703-527-3887

Website: : http://www.rbnainfo.com

Product use : Disinfectant.

This SDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is greater potential for large-scale or prolonged exposure, in accordance with the requirements of USDOL Occupational Safety and Health Administration.

This SDS is not applicable for consumer use of our products. For consumer use, all precautionary and first aid language is provided on the product label in accordance with the applicable government regulations, and shown in Section 15 of this SDS.

**SDS** # : D0224478 v8.0

Formulation #: : 1338-022 (0175933 v1.0) Original

1338-022 (8083521 v1.0) Original 1338-019 (0175919 v1.0) Country 1338-019 (8080039 v1.0) Campestre 1338-016 (0175935 v1.0) Summer Breeze

1338-018 (0175934 v1.0) Green Apple / Green Apple Breeze

1338-017 (0175927 v1.0) Kitchen (Citrus) 1338-021 (0175938 v1.0) Crisp Berry 1338-020 (0175932 v1.0) Garden Mist

1338-020 (8089468 v1.0) Bebe

1338-015 (0175918 v1.0) Spring Waterfall 1338-015 (0258756 v1.0) Blr Swf Ext Prd 1178-172 (0175917 v1.0) Crisp Linen 1178-172 (8089462 v1.0) Frescura 1178-172 (0242193 v1.0) Blr C/L Ext Prd 1338-026 (0175929 v1.0) Early Morning Breeze 1314-032 (0175926 v1.0) Citrus Meadows 1544-074 (0175943 v2.0) Vanilla & Blossoms 1314-038 (0175920 v1.0) Jasmine & Rain / Lavender

1314-038 (0175920 v1.0) Jasmine & Rain / Lavender e0002-161 (8159483 v1.0) Pomegranate Crush 1784-045A (0346500 v1.0) Crisp Mountain Air

1325-133 (0222651 v1.0) Amphyl

1338-023 (0175940 v1.0) Fresh / Oxygen

**EPA ID No.** : 777-99

Code # : D0224478\_US GHS SDS # : D0224478 v8.0 Date of issue : 26/06/2015. 1/14

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## 1. Product and company identification

: Sizes: 6 oz., 12 oz., 12.5 oz. and 19 oz. (Tin plate steel cans). **UPC Code / Sizes** 

### 2. Hazards identification

Classification of the substance or mixture : FLAMMABLE AEROSOLS - Category 2

**GHS** label elements

**Hazard pictograms** 



Signal word : Warning

**Hazard statements** : Flammable aerosol.

Pressurized container: may burst if heated.

**Precautionary statements** 

General : Keep out of reach of children. If medical advice is needed, have product container or

label at hand.

**Prevention** : Wear eye or face protection. Keep away from heat, sparks, open flames and hot

surfaces. - No smoking. Pressurized container: may burst if heated. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Wash

hands thoroughly after handling.

: Not applicable. Response

: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. **Storage** 

**Disposal** : Not applicable. Supplemental label : None known.

elements

Hazards not otherwise : None known.

classified

## 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
Ethyl alcohol	30 - 60	64-17-5
butane	1-5	106-97-8
propane	<2.5	74-98-6

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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### 4. First aid measures

### **Description of necessary first aid measures**

**Eye contact**: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not

breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial

respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects

persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar,

tie, belt or waistband.

**Skin contact**: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes.

Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes

thoroughly before reuse.

**Ingestion**: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and

keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

### Potential acute health effects

**Eye contact**: May cause eye irritation upon direct contact with eyes.

Inhalation : No known significant effects or critical hazards.
 Skin contact : No known significant effects or critical hazards.
 Ingestion : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

irritation redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact : No specific data.

Ingestion : No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may

be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

### See toxicological information (Section 11)

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### 5. Fire-fighting measures

### **Extinguishing media**

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

: None known.

Specific hazards arising from the chemical

: Flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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## 6. Accidental release measures

## Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## 7. Handling and storage

## Precautions for safe handling

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.

Conditions for safe storage, : including any incompatibilities

Do not store above the following temperature: 50°C (122°F). Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination.

## 8. Exposure controls/personal protection

#### Control

## Occupational exposure limits

ngredient name	Exposure limits
Ethyl alcohol	ACGIH TLV (United States, 6/2013).
	STEL: 1000 ppm 15 minutes.
	OSHA PEL 1989 (United States, 3/1989).
	TWA: 1000 ppm 8 hours.
	TWA: 1900 mg/m³ 8 hours.
	NIOSH REL (United States, 10/2013).
	TWA: 1000 ppm 10 hours.
	TWA: 1900 mg/m³ 10 hours.
	OSHA PEL (United States, 2/2013).
	TWA: 1000 ppm 8 hours.
	TWA: 1900 mg/m³ 8 hours.
utane	OSHA PEL 1989 (United States, 3/1989).
	TWA: 800 ppm 8 hours.
	TWA: 1900 mg/m³ 8 hours.
	NIOSH REL (United States, 10/2013).
	TWA: 800 ppm 10 hours.
	TWA: 1900 mg/m³ 10 hours.
	ACGIH TLV (United States, 6/2013).
	STEL: 1000 ppm 15 minutes.
propane	OSHA PEL 1989 (United States, 3/1989).

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## 8. Exposure controls/personal protection

TWA: 1000 ppm 8 hours. TWA: 1800 mg/m<sup>3</sup> 8 hours.

NIOSH REL (United States, 10/2013).

TWA: 1000 ppm 10 hours. TWA: 1800 mg/m³ 10 hours. OSHA PEL (United States, 2/2013).

TWA: 1000 ppm 8 hours. TWA: 1800 mg/m<sup>3</sup> 8 hours.

## Appropriate engineering controls

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

## **Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

# Skin protection Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

## **Body protection**

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

## Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### **Respiratory protection**

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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## 9. Physical and chemical properties

**Appearance** 

**Physical state** : Liquid. [Aerosol.]

Color : Clear.

Odor : Characteristic. : Not available. **Odor threshold** 

pН : 10.5 to 11.8 [Conc. (% w/w): 100%]

**Melting point** : Not available. **Boiling point** : Not available.

Flash point : Closed cup: 25.6°C (78.1°F)

**Evaporation rate** : Not available. : Not available. Flammability (solid, gas) Lower and upper explosive

(flammable) limits

: Not available.

: Not available. Vapor pressure Vapor density : Not available.

: 0.8667 to 0.8967 g/cm³ [20 to 25°C] **Relative density** 

**Solubility** : Easily soluble in the following materials: cold water and hot water.

Partition coefficient: n-

octanol/water

Not available.

**Auto-ignition temperature** : Not available. **Decomposition temperature** : Not available. **Viscosity** : Not available.

**Aerosol product** 

Type of aerosol : Spray **Heat of combustion** : 17.99 kJ/g **Ignition distance** <45.72 cm

## 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** The product is stable.

**Possibility of hazardous** 

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

: Avoid all possible sources of ignition (spark or flame). **Conditions to avoid** 

Incompatible materials : No specific data.

**Hazardous decomposition** 

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

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## 11. Toxicological information

## Information on toxicological effects

## **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Ethyl alcohol	LC50 Inhalation Vapor	Rat	124700 mg/m <sup>3</sup>	4 hours
-	LD50 Oral	Rat	7 g/kg	-
*Lysol® Brand III Disinfectant	LC50 Inhalation Vapor	Rat	>2.12 mg/l	4 hours
Spray, All Scents (Aerosol)				Maximum
				attainable
				concentration

Conclusion/Summary

: Not classified Harmful. \* Information is based on toxicity test result of the concentrate of a similar product.

## **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Ethyl alcohol	Eyes - Moderate irritant	Rabbit	-	0.066666667 minutes 100 milligrams	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	100 microliters	-
	Eyes - Severe irritant	Rabbit	-	500 milligrams	-
	Skin - Mild irritant	Rabbit	-	400 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
*Lysol® Brand III Disinfectant Spray, All Scents (Aerosol)	Eyes - Cornea opacity	Rabbit	< 1	72 hours	4 days
,	Skin - Primary dermal irritation index (PDII)	Rabbit	0.3	4 hours	72 hours

## **Conclusion/Summary**

Skin

: Slightly irritating to the skin. \*Information is based on toxicity test result of the concentrate of a similar product.

**Eyes** 

: Moderately irritating to eyes. \*Information is based on toxicity test result of the concentrate of a similar product.

## **Sensitization**

Not available.

## **Mutagenicity**

Not available.

## **Carcinogenicity**

Not available.

## **Classification**

Product/ingredient name	OSHA	IARC	NTP
Ethyl alcohol	-	1	-

## **Reproductive toxicity**

Not available.

#### **Teratogenicity**

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## 11. Toxicological information

Not available.

## Specific target organ toxicity (single exposure)

Not available.

## Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on the likely

routes of exposure

: Not available.

## Potential acute health effects

**Eye contact**: May cause eye irritation upon direct contact with eyes.

Inhalation : No known significant effects or critical hazards.
 Skin contact : No known significant effects or critical hazards.
 Ingestion : No known significant effects or critical hazards.

## Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

irritation redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact : No specific data.

Ingestion : No specific data.

## Delayed and immediate effects and also chronic effects from short and long term exposure

## **Short term exposure**

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

### Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

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## 11. Toxicological information

**Numerical measures of toxicity** 

**Acute toxicity estimates** 

Not available.

## 12. Ecological information

## **Toxicity**

Product/ingredient name	Result	Species	Exposure
Ethyl alcohol	Acute EC50 17.921 mg/l Marine water	Algae - Ulva pertusa	96 hours
•	Acute EC50 2000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 25500 μg/l Marine water	Crustaceans - Artemia franciscana - Larvae	48 hours
	Acute LC50 42000 μg/l Fresh water Chronic NOEC 4.995 mg/l Marine water Chronic NOEC 0.375 ul/L Fresh water	Fish - Oncorhynchus mykiss Algae - Ulva pertusa Fish - Gambusia holbrooki - Larvae	4 days 96 hours 12 weeks

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Ethyl alcohol	-0.35	-	low

## **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

## 13. Disposal considerations

## **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

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## 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	UN1950	Aerosols, flammable	2.1	-	$\Diamond$	Limited quantity
TDG Classification	UN1950	Aerosols, flammable	2.1	-	<b>\rightarrow</b>	Limited quantity
Mexico Classification	UN1950	Aerosols, flammable	2.1	-	<b>\rightarrow</b>	Limited quantity
IMDG Class	UN1950	Aerosols, flammable	2.1	-	<b>\rightarrow</b>	Limited quantity
IATA-DGR Class	UN1950	Aerosols, flammable	2.1	-	2	See DG List

PG\*: Packing group

## 15. Regulatory information

U.S. Federal regulations : TSCA 8(a) PAIR: 2-methylpropan-2-ol

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted.

Clean Water Act (CWA) 311: ammonia

Clean Air Act (CAA) 112 regulated flammable substances: butane; propane

Clean Air Act Section 112

(b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602

**Class I Substances** 

: Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals

(D. Clerificals

: Not listed

(Precursor Chemicals) **DEA List II Chemicals** 

: Not listed

(Essential Chemicals)

**SARA 302/304** 

## **Composition/information on ingredients**

No products were found.

SARA 304 RQ : Not applicable.

**SARA 311/312** 

Classification : Fire hazard

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## 15. Regulatory information

## Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Ethyl alcohol	30 - 60	Yes.	No.	No.	Yes.	No.

#### **State regulations**

Massachusetts : The following components are listed: ETHYL ALCOHOL; BUTANE; PROPANE

New York : None of the components are listed.

New Jersey : The following components are listed: ETHYL ALCOHOL; ALCOHOL; BUTANE;

**PROPANE** 

Pennsylvania: The following components are listed: DENATURED ALCOHOL; BUTANE; PROPANE

**Label elements** 

Signal word: : CAUTION

Hazard statements : Causes moderate eye irritation

**Precautionary measures**: Do not get in eyes, on skin, or on clothing. Wash with soap and water.

Keep out of the reach of children.

CONTENTS UNDER PRESSURE. Do not puncture or incinerate container. Do not expose to heat or store at temperatures above 120 °F. Keep away from heat, sparks,

open flames and hot surfaces. - No smoking.

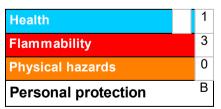
Hazard statements



Flammable

## 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

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## 16. Other information



### NFPA (30B) aerosol Flammability Level 1

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

Date of issue : 26/06/2015.

Date of previous issue : 09/04/2015.

Version : 8

Prepared by : Reckitt Benckiser LLC.

**Product Safety Department** 

1 Philips Parkway

Montvale, New Jersey 07646-1810 USA.

FAX: 201-476-7770

Revision comments : Revision as per US GHS. Correction to NFPA 30B level.

▼ Indicates information that has changed from previously issued version.

#### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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## 16. Other information



RB is a member of the CSPA Product Care Product Stewardship Program.

Code # : D0224478\_US GHS SDS # : D0224478 v8.0 Date of issue : 26/06/2015. 14/14



This safety data sheet complies with the requirements of 29CFR1910.1200.

## 1.0 IDENTIFICATION

PRODUCT NAME: McKesson Alcohol Prep Pads MFR #: 58-204, 58-404, 16-527, 16-528

DISTRIBUTED BY: McKesson Medical-Surgical Inc.

9954 Mayland Drive, Suite 4000 Richmond, Virginia 23233

INFORMATION LINE: 1-800-777-4908

Monday - Friday 8:00 a.m. - 6:00 p.m. EST

EMERGENCY PHONE: 1-800-451-8346 (3E Company) Day or Night

PRODUCT DESCRIPTION: McKesson Alcohol Prep Pads

## 2.0 HAZARDS IDENTIFICATION

## **CLASSIFICATION**

## **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Physical HazardsFlammable SolidsCategory 1Health HazardsSerious eye damage/eye irritationCategory 2A

Environmental Hazards Not determined OSHA defined hazards None additional

#### **Label Elements**

**Pictograms** 









#### **Hazard Statements**

Flammable solid.

Causes serious eye irritation.

#### **Precautionary Statements - Prevention**

Keep away from heat/spark/open flames/hot surfaces.

No smoking.

Use only in a well ventilated area.

#### **Precautionary Statements - Response**

If case of fire: use appropriate media to extinguish.

If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. Immediately call a poison control center.

If inhaled: remove victim to fresh air and keep comfortable for breathing.

#### Precautionary Statement - Disposal

Dispose of waste and residues in accordance with local authority requirements.

#### Hazards not otherwise classified (HNOC)

Not applicable

#### Other information

Not know.

## 3.0 COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms None

**Substance: Mixture** 

CHEMICAL NAME	CAS NO.	WEIGHT (%)
Isopropyl Alcohol	67-63-0	70
Purified Water	7732-18-5	30

#### **4.0 FIRST AID MEASURES**

## **DESCRIPTION OF FIRST AID MEASURES**

#### **General Advice**

Keep victim warm and quiet. Monitor for systemic secondary effects on liver and kidney. Ensure that medical personnel are aware o the material (s) involved and take precautions to protect themselves.



**Eye Contact** Immediately flush with plenty of water. After initial flushing

remove any contact lenses and continue flushing for at least

15 minutes. Seek immediate medical attention/advice.

**Skin Contact** In case of skin irritation, discontinue use of product. Wash off

with soap and water. Get medical attention if irritation

develops and persists.

Inhalation If breathing is difficult, remove to fresh air and keep at rest in

a position comfortable for breathing. Call a physician if

symptoms develop or persist.

Ingestion If swallowed, contact a Poison Control Center immediately.

> Immediately rinse mouth out with water. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by

mouth if victim is unconscious or is convulsing.

#### MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

**Symptoms** May include stinging, tearing, redness, swelling and blurred

## INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Provide general supportive measures and treat asymptomatically.

#### **5.0 FIRE-FIGHTING MEASURES**

#### **SUITABLE EXTINGUISHING MEDIA**

Use foam, dry chemical or carbon dioxide. Be aware of possibility of re-ignition. Keep containers and surroundings cool with water spray.

Unsuitable extinguishing media: None

## SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

During fire, gases hazardous to health may be formed.

#### **Explosion data**

Sensitivity to Mechanical Impact None Sensitivity to Static Discharge None



#### PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection.

In case of fire of explosion, do not breather fumes. In the event of fire, use water spray to cool fire exposed surfaces and to protect personnel. Shut off fuel to the fire. If a leak or spill has not ignited, use water spray to disperse the vapors.

#### **6.0 ACCIDENTAL RELEASE MEASURES**

## PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Personal Precautions Wear appropriate protective equipment and clothing during

clean up.

**Other Information** Eliminate all sources of ignition.

For Emergency Responders

Use personal protective equipment as required. Vapors can

accumulate in low areas. Consider need for evacuation.

**ENVIRONMENTAL PRECAUTIONS**Collect spillage. Prevent material from entering water

courses.

#### METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

**Methods for Containment**Contain and absorb using earth, sand or inert materials.

Transfer into suitable containers for recovery ordisposal.

Methods for Cleaning up N/A

### 7.0 HANDLING AND STORAGE

#### PRECAUTIONS FOR SAFE HANDLING

Advice on Safe Handling Do not handle near open flame or heat sources. Do not use

with electrocautery procedures. Use according to package label instructions. Discard after single use. Avoid inhaling

vapor and contact with eyes.



## **CONDITIONS FOR SAFE STORAGE**

**Storage Conditions** Keep container closed. Store in a cool, dry, well ventilated

place. Keep away from sources of ignition.

Incompatible Materials N/A

## **8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **CONTROL PARAMETERS**

**Exposure Guidelines** 

OSHA PEL Limits for Air contaminants Isopropanol 980 mg/m3, 400 ppm

US ACGIH Threshold Limit Values Isopropanol STEL 400 ppm

Isopropanol TWA 200 ppm

US NIOSH Isopropanol STEL 1225 mg/m3, 500 ppm

Isopropanol TWA 980 mg/m3, 400 ppm

**Biological Limit Values** 

**ACGIH Biological Exposure Indices** 

Isopropanol 40mg/l, Acetone, Urine

<u>APPROPRIATE ENGINEERING CONTROLS</u> Ventilation systems. Eyewash stations. Showers.

## INDIVIDUAL PROTECTION MEASURES, SUCH AS PPE

**Eye/Face Protection** Wear gear deemed necessary.

**Skin and Body Protection** Wear gear as deemed necessary.

**Respiratory Protection** Wear positive pressure self contained breathing apparatus

(SCBA)

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety

practice. Wash hands before breaks and immediately after handling the product. When using, do not smoke. When using

do not eat or drink.

## 9.0 PHYSICAL AND CHEMICAL PROPERTIES



## **INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES**

Physical State Liquid

Appearance Clear, Colorless

**Form** Pre-moistened towelette

Color N/A

**Odor** Alcohol odor

Odor Threshold No information available

Property	Values	Remarks
pH (1-3% aqueous solution)	Not applicable	
Melting point/freezing point	- C	
Boiling point/boiling range	Between 82 and 83 C	
Flash point	12 C	
Evaporation rate	2.5	
Flammability (solid, gas)	Not applicable	
Flammability Limit in Air	LEL/UEL 2.0/12.7 vol %	Not Flammable
<ul> <li>Upper flammability limit</li> </ul>		
<ul> <li>Lower flammability limit</li> </ul>		
Vapor pressure	33 mmHg	
Vapor density	Not applicable	
Specific Gravity	0.785	
Water solubility	Not applicable	
Solubility in water	100%	
Partition coefficient	Not applicable	
Autoignition temperature	399 C	
Decomposition temperature	Not applicable	
Kinematic viscosity	Not applicable	
Dynamic viscosity	Not applicable	
Explosive properties	Not applicable	
Oxidizing properties	Not applicable	
Softening point	Not applicable	
Molecular weight	Not applicable	
VOC Content (%)	Not applicable	
Density	Not applicable	
Bulk Density	0.9g/cc	

## **10.0 STABILITY AND REACTIVITY**

**CHEMICAL STABILITY** Stable under normal condition of handling, use and transport.

**POSSIBILITY OF HAZARDOUS REACTIONS**None under normal processing.

Hazardous polymerization Does not occur.



**CONDITIONS TO AVOID** Heat, flames and sparks. Avoid temperatures exceeding flash

point.

**INCOMPATIBLE MATERIALS** Strong oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS** May include but are not limited to oxides of carbon.

#### 11.0 TOXICOLOGICAL INFORMATION

## **INFORMATION ON LIKELY ROUTES OF EXPOSURE**

**Product Information** Available toxicological data for individual ingredients are

summarized below.

**Inhalation** Vapors have a narcotic effect and may cause headache,

fatigue, dizziness and nausea. Health injuries are not known

or expected under normal use.

**Eye Contact** Causes serious eye irritation.

**Skin Contact**Not expected to be a primary skin irritant.
Ingestion
Not applicable under normal conditions of use.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LD50
Isopropanol	5045 mg/kg	Eye 12800 mg/kg	16970
67-63-0	(rat)	(rabbit)	mg/l/4h

#### INFORMATION ON TOXICOLOGICAL EFFECTS

No information available.

## DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritationCauses serious irritation to the eyeRespiratory or skin sensitizationNot expected to cause skin sensitization.SensitizationNo sensitization responses were observed.Germ cell mutagenicityNot expected to have chronic health effects.

**Carcinogenicity** This product does not contain any carcinogens or potential

carcinogens as listed by OSHA, IARC, ACGHI or NTP.

US OSHA Specifically Regualted Substances Not listed

**Reproductivity Toxicity** Finished product not expected to have chronic health effects.

STOT - single exposure

STOT - repeated exposure

Chronic Toxicity

Sub-chronic Toxicity

No known effect.

No known effect.

No known effect.

No known effect.

Not applicable.



#### **NUMERICAL MEASURES OF TOXICITY**

Not available.

## 12.0 ECOLOGICAL INFORMATION

#### **ECOTOXICITY**

Chemical Name	Algae/Aquatic Plants	Fish	Crustacea
Isopropanol	IC 50 100mg/L, 72 hours	LC 50 Bluegill > 1400 ml/l, 96	EC 50 13299 mg/L: 72 h Daphnia
67-63-0		hours	magna

Persistence and degradability No data available.

**Bioaccumulation** No data available.

Partition coefficient n-octanol/water (log Kow) Isopropanol 0.05

MobilityNo data available.Other adverse effectsNone expected.

## 13.0 DISPOSAL CONSIDERATIONS

## **WASTE TREATEMENT METHODS**

**DISPOSAL OF WASTE**Dispossal should be in accordance with applicable regional,

national and local laws and regulations. Dispose of

contents/containers in accordance with local regulations. This material, as supplied, is not a hazardous waste according to

state and federal regulations (40 CFR 61).

Contaminated packaging Following warning label.

State of California Hazardous Waste Status Isopropanol (67-63-0) Listed

### 14.0 TRANSPORT INFORMATION

#### NOTE: THIS MATERIAL LIS NOT SUBJECT TO REGULATION AS A DANGEROUS GOOD.

DOT Not regulated
TDG Not regulated
MEX Not regulated
ICAO Not regulated
IATA Not regulated
IMDG Not regulated
RID Not regulated

ADR Not regulated. European requirement only.



**AND** 

Not regulated. European requirement only.

#### **15.0 REGULATORY INFORMATION**

#### **INTERNATIONAL INVENTORIES**

OSHA Specifically regulated substances Not listed

#### **LEGEND**

TSCA – United States Toxic Substances ControlAct Section 8b Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS – European Inventory of Existing chemical Substances/European List of Notified Chemical

**ENCS** – Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS – Phillipines Inventory of Chemicals and ChemicalSubstances

**AICS** – Australian Inventory of Chemical Substances

#### **US FEDERAL REGULATION**

## SARA

**Hazard categories** Immediate Hazard – Yes

Delayed Hazard – No Fire Hazard – Yes Pressure Hazard – No Reactivity Hazard - No

SARA 302 Extremely Hazardous Substances No

SARA 311/312 Hazard Categories

Acute Health Hazard No
Chronic Health Hazard No
Fire Hazard No
Sudden release of pressure hazard No
Reactive Hazard No

SARA 313 (TRI Reporting)

Isopropanol (67-63-0) 40-70% by weight

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).



FDA Regulated as a drug.

CERCLA Isopropanol (67-63-0) Listed

## **US STATE REGULATIONS**

## **CALIFORNIA PROPOSITION 65**

This product does not contain any Proposition 65 chemicals.

## **US RIGHT TO KNOW REGULATIONS**

Isopropanol (67-63-0) Listed California (Hazardous Substances (Director's), Illinois,

Lousiana, Minnesota, New Jersey, Massachusetts,

Pennsylvania, Rhode Island

Country(s) of Origin United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory On inventory? Yes

US EPA LABEL INFORMATION Not applicable.

## **16.0 OTHER INFORMATION**

#### **NFPA**

Health Hazards 1
Flammability 3
Reactivity/Instability 0

## **HMIS**

Health Hazards 1
Flammability 3
Physical Hazards 0
Personal Protection X

## Prepared by

Cypress Medical Products, LLC Quality Assurance

## Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The



information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

---End of Document---



## **\*SAFETY DATA SHEET\***

McKesson Skin Wipe McKesson Individual Packet BZK (Benzalkonium Chloride) Unscented

SECTION 1- PRODUCT	AND CO	MPANY IDENTIFICATION	ON			
PRODUCT CODE		269	DESCRIPTION: M	DESCRIPTION: McKesson Benzalkonium Chloride Towelette		
Recommended Use:		Disinfecting & Cleaning				
DISTRIBUTED BY:		McKesson Medical-Surgical Inc. 9954 Mayland Drive, Suite 4000 Richmond, Virginia 23233  1-800-777-4908 (Monday – Friday 8:00 a.m. – 6:00 p.m. EST)				
EMERGENCY PHONE			1-800-451-8346 (3E Company)			
			Day or Night			
SECTION 2 - COMPOSI	ITION / IN	FORMATION ON INGR	EDIENTS			
HAZARDOUS COMPON	NENTS	(Specific Chemical Identi	ity: Common Names)	CAS#		
	Benzal	konium Chloride		63449-41-2		
	Sodiu	m Bicarbonate		144-55-8		
		Water		7732-18-5		
SECTION 3 - HAZARDS	DENTIF	CATION (Potential He	alth Effects)			
EYE:			,	Irritating, and will injure eye tissue if not removed promptly.		
SKIN:	• Frequent or p		Low order of toxic     Frequent or prolo discomfort and dern	prolonged contact may defat and dry the skin, leading to		
INHALATION (BREATHING):		Vapor concentrations above recommended exposure levels may be irritating to the eyes and the respiratory tract, may cause headaches and dizziness, could be anesthetic and may have other central nervous system effects				
INGESTION (SWALLOWING):		Small amount of liquid aspirated into the respiratory system during ingestion or from vomiting may cause man pneumonia or pulmonary edema.				
SIGNS AND SYMPTOMS:		Take by mouth may cause nausea, vomiting, stomach pains, diarrhea, coma or death				
CANCER:			N/A			
TARGET ORGANS:			N/A			
DEVELOPMENTAL:			N/A			
OTHER COMMENTS:			N/A			
PRE-EXISTING MEDICAL CONDITIONS:		N/A				
SECTION 4 - FIRST AID	MEASUR	ES				
Eyes:	Immediately flush eyes with large amount of water for at least 15 minutes. Get prompt medium attention.					
SKIN:	Flush with large amounts of water; use available soap.     Remove grossly contaminated clothing, including shoes, and launder before reuse.					
INHALATION (BREATHING):	Using proper respiratory protection, immediately remove the affected victim from exposure, Administrator artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.					
INGESTION (SWALLOWING):	If swallowed, induce vomiting. Keep at rest. Get prompt medical attention.					



## \*SAFETY DATA SHEET\*

McKesson Skin Wipe McKesson Individual Packet BZK (Benzalkonium Chloride) Unscented

NOTE TO PHYSICIANS:	Keep victim warm and quiet.			
Protection of First-aiders  • Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.				
SECTION 5 - FIREFIGHTING ME	ASURES			
FLAMMABLE PROPERTIES:		N/A		
UNUSUAL FIRE & EXPLOSION HAZ	ARDS:	N/A		
EXTINGUISHING MEDIA:		Water spray, foam dry chemical or carbon dioxide		
FIREFIGHTING INSTRUCTIONS:		<ul> <li>Use water spray to cool fire exposed surfaces and to protect personnel. Shut off fuel" to fire. If a leak or spill has not ignited, use water spray to disperse the vapors and to protect men attempting to stop a look.</li> <li>Either allow fire to burn under controlled conditions or extinguish with alcohol type foam or dry chemical. Try to cover liquid spills with foam.</li> <li>Spill fires may be extinguished by flooding with large amounts of water.</li> </ul>		
SECTION 6- ACCIDENTAL REL	EASE MEASU	RES		
IF SPILLED/RELEASED:	hazard. Pr	te sources of ignition. Warn occupants of downwind areas of fire and explosion revent liquid from entering sewers, watercourses, or low areas.		
SECTION 7- HANDLING AND ST	ORAGE			
HANDLING & STORAGE:	pressure r     Do not r ignition. Pr     This ma procedure Do not product re	pressurize, cut, heat, or weld containers. Empty product contain ers may contain		
SECTION 8 - EXPOSURE CONT				
ENGINEERING CONTROLS:		The use of mechanical dilation ventilation is recommended whenever this product is used in a confined space, is heated above ambient temperatures or otherwise to maintain ambient concentration below the recommended threshold exposure limited. Use explosion-proof ventilation equipment.		
RESPIRATORY PROTECTION:		Where concentrations in air may exceed the limits given in this section, it is recommended to use a half face filter mask to protect from overexposure by inhalation. Suitable filter material depends on the amount and type of chemicals being handled in the workplace, but filter material of type "A" or similar may be considered for use.		
SKIN PROTECTION:		The use and choice of personal protection equipment is related to the hazard of the product, the workplace, and the way the product is handled. In general, we recommend as a minimum safety precaution that safety glasses with side shields		
		and work clothes protecting arms, legs and body be used. In addition, any person visiting an area where this product is handled at processed should at least wear safety glasses with side-shields.		
EYE/FACE PROTECTION:		When handling this product, it is recommended to wear splash resistant goggles.		
OTHER PROTECTIVE EQUIPMENT:		No smoking, keep good health habits		



## \*SAFETY DATA SHEET\*

McKesson Skin Wipe McKesson Individual Packet BZK (Benzalkonium Chloride) Unscented

#### SECTION 9 - PHYSICAL / CHEMICAL PROPERTIES Note: Unless otherwise stated, values are determined at 20 degrees Celsius (68 degrees Fahrenheit) and 760 mm Hg (1 atm) FLASH POINT: Not available Not available FLAMMABLE/EXPLOSIVE LIMITS (%): **AUTO IGNITION TEMPERATURE:** Not available Not available APPEARANCE: PHYSICAL STATE: Not available ODOR: Characterized Odor pH: Not available VAPOR PRESSURE (kPa): Not available BOILING POINT: Not available FREEZING/MELTING POINT: Not available SOLUBILITY IN WATER: Not available SPECIFIC GRAVITY: Not available **EVAPORATION RATE (nBuAc=1):** Not available **SECTION 10 - STABILITY & REACTIVITY** Stable CHEMICAL STABILITY: CONDITIONS TO AVOID: N/A INCOMPATIBLE MATERIALS: Strong Oxidizing agents, acids, acid anhydride, halogen HAZARDOUS DECOMPOSITION PRODUCTS: N/A HAZARDOUS POLYMERIZATION: N/A

## **SECTION 11 - TOXICOLOGICAL INFORMATION**

Oral (rat) LD50: Not available Skin (rabbit): Not available

## SECTION 12 - ECOLOGICAL INFORMATION

**ENVIRONMENTAL MOBILITY** 

· This product is water soluble and is expected to remain primarily in water.

ENVIRONMENTAL DEGRADABILITY

- This product biodegrades rapidly and is "readily" biodegradable according to OECD guidelines.
- · This substance is expected to be removed in a waste water treatment facility.

ECOTOXICITY AND BIOACCUMULATION

· Low acute toxicity to aquatic organisms is expected.

## **SECTION 13 - DISPOSABLE CONSIDERATIONS**

The following advice only applies to the product as supplied.

Combination with other material may well indicate another route or disposal. If in doubt, contact the local Authorities. Empty packaging should be taken for recycling, recovery or disposal through a suitably qualitied or licensed contractor. Care should in any case be taken to ensure compliance with national and local regulations.

This product is NOT suitable for disposal by either landfill or via municipal powers, drains, natural streams or rivers. This product is ash less and can be burned directly in appropriate equipment.



## \*SAFETY DATA SHEET\*

McKesson Skin Wipe McKesson Individual Packet BZK (Benzalkonium Chloride) Unscented

## **SECTION 14 - TRANSPORT INFORMATION** Dangerous goods code: Not available UN code: Not available Packaging groups Not available **SECTION 15 - REGULATORY INFORMATION** COMPONENT GOVERNING DIRECTIVE Dangerous Substances Directive 67/548/EC, as modified Warning: S07/09 Keep container tightly closed and in a well ventilated place Keep away from sources of ignition-No Smoking S24/25 Avoid contact with skin and eyes In case of contact with eyes, flush immediately with plenty of water and seek medical advice Take precautionary measures against static discharges S33 In case of fire, use sand, earth, chemical powder or alcohol type foam **SECTION 16 - OTHER INFORMATION** This information relates onto to the specific material designated and may not be valid for such material used in combination with any other materials or in any DISCLAIMER OF EXPRESSED AND IMPLIED process. The information and recommendations contained herein are to the WARRANTIES best of the manufacturer's knowledge and belief accurate and reliable as of the date indicated. No representation warranty or guarantee, however, is made with regards to accuracy, reliability or completeness. Conditions of use of the material are under the control of the user; therefore, it is the user's responsibility to satisfy itself as to the suitability and completeness of such information for its own particular use. Appropriate warnings and safe-handling procedures should be provided to handlers and users.

\*END SDS\*



## \*SAFETY DATA SHEET\*

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: McKesson Hydrogen Peroxide, 3%

MFR #: 23-A0013, 23-D0012, 23-F0010

DISTRIBUTED BY: McKesson Medical-Surgical Inc.

9954 Mayland Drive, Suite 4000 Richmond, Virginia 23233

INFORMATION LINE: 1-800-777-4908

Monday - Friday 8:00 a.m. - 6:00 p.m. EST

EMERGENCY PHONE: 1-800-451-8346 (3E Company)

Day or night

PRODUCT DESCRIPTION: McKesson Hydrogen Peroxide, 3%

#### SECTION 2: HAZARDS IDENTIFICATION

ROUTES OF ENTRY: N/A

POTENTIAL HEALTH EFFECTS:

EYES: Eye Dam. 1;H318 Causes serious eye damage.

SKIN: Skin Corr. 1B;H314 Causes severe skin burns and eye damage.

INGESTION: N/A
INHALATION: N/A

ACUTE HEALTH HAZARDS: N/A
CHRONIC HEALTH HAZARDS: N/A

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N/A

CARCINOGENICITY

DSHA: TWA 1 ppm (1.4mg/m3) ACGIH: TWA: 1ppm NTP: N/A IARC: N/A

OTHER: NIOSH: TWA 1ppm (1.4mg/m3)

SECTION 2 NOTES:

CAS No.	Ingredient	Source	Value
0007722-84-1	Hydrogen peroxide	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No;



#### **Label elements**

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows. 001 - Hydrogen Peroxide 3% USP



H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

#### [Prevention]:

P260 Do not breathe mist / vapors / spray.

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection / face protection.

#### [Response]:

P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Stay at rest.

P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.

P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P310 Immediately call a POISON CENTER or doctor / physician.

P363 Wash contaminated clothing before reuse.

## [Storage]:

P405 Store locked up.

### [Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

#### SECTION 3: COMPOSITION/INFORMATION OF INGREDIENTS

### **SECTION 3 NOTES:**

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Hydrogen peroxide CAS Number: 0007722- 84-1		Ox. Liq. 1;H271 Acute Tox. 4;H332 Acute Tox. 4;H302 Skin Corr. 1A:H314	[1][2]



Substance classified with a health or environmental hazard. Substance with a workplace exposure limit. PBT-substance or vPVP-substance.

\*The full text of the phrases are shown in Section 16.

#### **SECTION 4: FIRST-AID MEASURES**

EYES: Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

SKIN: Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

INGESTION: If swallowed do NOT induce vomiting and obtain immediate medical attention.

INHALATION: Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration.

If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

#### NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: N/A

**SECTION 4 NOTES:** In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

#### Most important symptoms and effects, both acute and delayed

Overview Inhalation of vapors and mists irritate the nose and throat. Minimally irritating to the eyes and mildly

irritating to the skin. See section 2 for further details.

**Eyes** Causes serious eye damage.

**Skin** Causes severe skin burns and eye damage.

## **SECTION 5: FIRE-FIGHTING MEASURES**

FLAMMABLE LIMITS IN AIR, UPPER: N/A (% BY VOLUME) LOWER: N/A

FLASH POINT: N/A METHOD USED: N/A

**AUTOIGNITION TEMPERATURE: N/A** 

NFPA HAZARD CLASSIFICATION

HEALTH: N/A FLAMMABILITY: N/A REACTIVITY: N/A OTHER: N/A

**HMIS HAZARD CLASSIFICATION** 

HEALTH: N/A FLAMMABILITY: N/A REACTIVITY: N/A PERSONAL: N/A

**EXTINGUISHING MEDIA:** Recommended extinguishing media: flood with water spray or water fog.

**SPECIAL FIRE FIGHTING PROCEDURES:** Do not breathe mist/vapors/spray.

UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxygen which supports combustion.

SECTION 5 NOTES: Firefighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

**ACCIDENTAL RELEASE MEASURES: N/A** 

**SECTION 6 NOTES:** 

Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).



#### **Environmental precautions**

Biodegradable, non-hazardous to environment.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing before reuse

#### Methods and material for containment and cleaning up.

Flush with water: wear fubber boots, rubber apron and goggles.

#### **SECTION 7: HANDLING AND STORAGE**

**HANDLING:** See section 2 for further details. - [Prevention]:

**STORAGE:** Handle containers carefully to prevent damage and spillage.

Incompatible materials: Reducing agents, combustible materials.

Store in a cool, dark place. Avoid extreme heat. See section 2 for further details. - [Storage]:

OTHER PRECAUTIONS: N/A

**SECTION 7 NOTES:** N/A

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** N/A

**VENTILATION:** 

**RESPIRATORY PROTECTION:** If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

**EYE PROTECTION:** Protective goggles if desired.

SKIN PROTECTION: Rubber or vinyl gloves.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: N/A

**WORK HYGIENIC PRACTICES:** Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove solied clothing and wash thoroughly before reuse.

#### **EXPOSURE GUIDELINES:**

**SECTION 8 NOTES: N/A** 

### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE & ODOR: Clear, colorless, odorless liquid

PHYSICAL STATE: N/A

pH AS SUPPLIED: N/A pH (Other): N/A BOILING POINT: 212°F MELTING POINT: N/A FREEZING POINT: N/A

VAPOR PRESSURE (mmHg): 23

@ N/A

DENSITY (lb/gal): N/A

@ N/A

SPECIFIC GRAVITY (H2O = 1): 1.1



@ N/A

**EVAPORATION RATE:** >1

**BASIS (=1):** N/A

**SOLUBILITY IN WATER:** Complete

PERCENT SOLIDS BY WEIGHT: N/A

**PERCENT VOLATILE: N/A** 

BY WT/ N/A BY VOL @ N/A

**VOLATILE ORGANIC COMPOUNDS (VOC): N/A** 

WITH WATER: N/A LBS/GAL WITHOUT WATER: N/A LBS/GAL

**MOLECULAR WEIGHT: N/A** 

VISCOSITY: N/A

**SECTION 9 NOTES:** 

Heavy Metals: 5 ppm maximum Limit of Preservative: NMT 50 mg Hydrogen Peroxide Assay: 2.5-3.5%

## **SECTION 10: STABILITY AND REACTIVITY**

## **STABLE**

**UNSTABLE** 

**STABILITY:** Stable under normal conditions.

**CONDITIONS TO AVOID (STABILITY):** Extreme heat and combustion.

INCOMPATIBILITY (MATERIAL TO AVOID): Reducing agents, combustible materials.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Oxygen, which supports combustion.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID (POLYMERIZATION): N/A

SECTION 10 NOTES: N/A

### SECTION 11: TOXICOLOGICAL INFORMATION

## TOXICOLOGICAL INFORMATION:

Acute Toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LD50, mg/L/4hr	Inhalation Dust/Mist LD50, mg/L/4hr	Inhalation Gas LD50, ppm
Hydrogen peroxide - (7722-84-1)	801.00, Rat - <u>Category:</u> <u>4</u>	2,000.00, Rat - <u>Category:</u> 4	2.00, Rat - <u>Category:</u> <u>2</u>	No data <u>available</u>	No data <u>available</u>

Note: When no toute specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).



Classification	Category	Hazard Description
Acute toxicity (oral)		Not Applicable
Acute toxicity (dermal)		Not Applicable
Acute toxicity (inhalation)		Not Applicable
Skin corrosion/irritation	1B	Causes severe skin burns and eye damage.
Serious eye damage/irritation	1	Causes serious eye damage.
Respiratory sensitization		Not Applicable
Skin sensitization		Not Applicable
Germ cell mutagenicity		Not Applicable
Carcinogenicity		Not Applicable
Reproductive toxicity		Not Applicable
STOT-single exposure		Not Applicable
STOT-repeated exposure		Not Applicable
Aspiration hazard		Not Applicable

SECTION 11 NOTES: N/A

## **SECTION 12: ECOLOGICAL INFORMATION**

## **ECOLOGICAL INFORMATION:**

Toxicity: No additional information provided for this product. See section 3 for chemical specific data.

**Aquatic Ecotoxicity** 

Ingredient	96 hr LC50 fish,	48 hr EC50 crustacea,	ErC50 algae,
	mg/l	mg/l	mg/l
Hydrogen peroxide - (7722-84-1)	22.00, Oncorhynchus <u>mykiss</u>	2.32, Daphnia magna	0.71 (72 hr), Microcystis pulverea <b>ssp.</b> incerta

## Persistence and degradability

There is no data available on the preparation itself.

#### **Bioaccumulative potential**

Not Measured

## Mobility in soil

No data available.

#### Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

## Other adverse effects

No data available.

#### SECTION 12 NOTES: N/A

## SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Observe all federal, state and local regulations when disposing of this substance.



RCRA HAZARD CLASS: N/A
SECTION 13 NOTES: N/A

#### **SECTION 14: TRANSPORT INFORMATION**

U.S. DEPARTMENT OF TRANSPORTATION: Not regulated.

PROPER SHIPPING NAME: N/A
HAZARD CLASS: N/A
DOT SHIPPING ID NUMBER: N/A
DOT PACKING GROUP: N/A
DOT HAZARD CLASS: N/A
DOT LABEL STATEMENT: N/A

WATER TRANSPORTATION

PROPER SHIPPING NAME: N/A

HAZARD CLASS: N/A
ID NUMBER: N/A
PACKING GROUP: N/A
LABEL STATEMENTS: N/A

**AIR TRANSPORTATION** 

PROPER SHIPPING NAME: N/A

HAZARD CLASS: N/A
ID NUMBER: N/A
PACKING GROUP: N/A
LABEL STATEMENTS: N/A

SECTION 14 NOTES: N/A

#### **SECTION 15: REGULATORY INFORMATION**

#### **U.S. FEDERAL REGULATIONS**

TSCA (TOXIC SUBSTANCE CONTROL ACT): All components of this material are either listed or exempt from listing on the TSCA

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): N/A

EPCRA 301 Extremely Dangerous: Hydrogen Peroxide

**SARA 311/312 HAZARD CATEGORIES:** To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**SARA 313 REPORTABLE INGREDIENTS:** Contains NO hazardous ingredients subject to reporting requirements of Section 313 of SARA Title II.

## **STATE REGULATIONS:**

New Jersey RTK Substances (>1%):

Hydrogen peroxide

Pennsylvania RTK Substances (>1%):

Hydrogen peroxide

Proposition 65 - Carcinogens (>0.0%):

No chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):

No chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):

No chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):



No chemicals at levels which require reporting under this statute.

SDS DATE: 10/29/15

**INTERNATIONAL REGULATIONS: N/A** 

SECTION 15 NOTES: N/A

**SECTION 16: OTHER INFORMATION** 

**OTHER INFORMATION: N/A** 

**PREPARATION INFORMATION: N/A** 

**DISCLAIMER:** This information relates onto to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. The information and recommendations contained herein are to the best of the manufacturer's knowledge and belief accurate and reliable as of the date indicated. No representation warranty or guarantee, however, is made with regards to accuracy, reliability or completeness. Conditions of use of the material are under the control of the user; therefore, it is the user's responsibility to satisfy itself as to the suitability and completeness of such information for its own particular use. Appropriate warnings and safe-handling procedures should be provided to handlers and users.



SDS DATE: 8/7/2015

## \*SAFETY DATA SHEET\*

#### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: McKesson Isopropyl Rubbing Alcohol 70%

MFR #: 23-D0022, 23-D0024

DISTRIBUTED BY: McKesson Medical-Surgical Inc.

9954 Mayland Drive, Suite 4000 Richmond, Virginia 23233

INFORMATION LINE: 1-800-777-4908

Monday - Friday 8:00 a.m. - 6:00 p.m. EST

EMERGENCY PHONE: 1-800-451-8346 (3E Company)

Day or night

PRODUCT DESCRIPTION: Alcohol, Isopropyl 70%

## SECTION 2: HAZARDS IDENTIFICATION

ROUTES OF ENTRY: N/A

POTENTIAL HEALTH EFFECTS: N/A

EYES: N/A

SKIN: N/A

INGESTION:N/A

INHALATION: N/A

ACUTE HEALTH HAZARDS: N/A

CHRONIC HEALTH HAZARDS: N/A

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N/A

CARCINOGENICITY

OSHA: No ACGIH: N/A NTP: No IARC: Group 1: No, Group 2a: No, Group 2b:

No, Group 3: Yes, Group 4: No

OTHER: N/A

SECTION 2 NOTES:

Classification of the substance or mixture Flam. Liq. 3;H226 Flammable liquid and vapor. Eye Irrit. 2;H319 Causes serious eye irritation. STOT SE 3;H336 May cause drowsiness or dizziness.

Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

# **MCKESSON**

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#### Warning

H226 Flammable liquid and vapor.

H319 Causes serious eye irritation.

H336 May cause drowsiness and dizziness.

#### **Prevention**

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.

P235 Keep cool.

P240 Ground / bond container and receiving equipment.

P241 Use explosion-proof electrical / ventilating / light / equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves / eye protection / face protection.

#### Response

P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.

P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and

easy to do - continue rinsing.

P337+313 If eye irritation persists: Get medical advice / attention.

P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P370+378 In case of fire: Use extinguishing media listed in section 5 of SDS for extinction.

#### Storage

P403+233 Store in a well ventilated place. Keep container tightly closed.

P405 Store locked up.

#### **Disposal**

P501 Dispose of contents / container in accordance with local / national regulations.

## **SECTION 3: COMPOSITION/INFORMATION OF INGREDIENTS**

 INGREDIENT
 CAS NO.
 %
 Exposure Limits

 Isopropyl Alcohol
 67-63-0
 50-75
 OSHA TWA 400 ppm (980mg/m3)ST

OSHA TWA 400 ppm (980mg/m3)STEL 500 ppm ACGIH TWA: 200 ppm STEL: 400 ppm Revised 2003.

NIOSH TWA 400 ppm (980 mg/m3) ST 500 ppm (1225 mg/m3)

### **SECTION 3 NOTES:**

GHS Classification: Flam. Liq. 2;H225 Eye Irrit. 2;H319 STOT SE 3;H336

Substance classified with a health or environmental hazard.



Substance with a workplace exposure limit. PBT-substance or vPvB-substance.

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## **SECTION 4: FIRST-AID MEASURES**

**EYES:** Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

**SKIN:** Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

INGESTION: If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

**INHALATION:** Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

#### **NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:**

#### **SECTION 4 NOTES: N**

General: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

### Most important symptoms and effects, both acute and delayed

Overview Signs and Symptoms of Exposure: Giddiness, headache, dizziness and nausea.

Medical Conditions Generally Aggravated by Exposure: Pre-existing and respiratory disorders, may be aggravated by exposure.

Health Hazards (Acute and Chronic): Generally used as a rubdown. Vapor irritates eyes.

High concentration of vapor can irritate respiratory tract, is anesthetic and may cause CNS depression.

Not a carcinogen.

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage. See section 2 for further details.

Inhalation May cause drowsiness or dizziness.

**Eyes** Causes serious eye irritation.

#### **SECTION 5: FIRE-FIGHTING MEASURES**

FLAMMABLE LIMITS IN AIR, UPPER: 12
(% BY VOLUME) LOWER: 2

FLASH POINT: 77 F METHOD USED: TCC

**AUTOIGNITION TEMPERATURE: N/A** 

NFPA HAZARD CLASSIFICATION

HEALTH: N/A FLAMMABILITY: N/A REACTIVITY: N/A OTHER: N/A

HMIS HAZARD CLASSIFICATION



SDS DATE: 8/7/2015
HEALTH: N/A FLAMMABILITY: N/A REACTIVITY: N/A PERSONAL: N/A

**EXTINGUISHING MEDIA:** 

Recommended extinguishing media; alcohol resistant foam, CO2, water fog. Do not use; water jet.

**SPECIAL FIRE FIGHTING PROCEDURES:** 

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** 

**HAZARDOUS DECOMPOSITION PRODUCTS:** 

**SECTION 5 NOTES:** 

Special hazards arising from the substance or mixture

Hazardous decomposition: Burning may produce carbon monoxide and carbon dioxide contamination. Keep away from heat / sparks / open flames / hot surfaces - No smoking.

Avoid breathing dust / fume / gas / mist / vapors / spray.

**Advice for fire-fighters** 

Dilution of burning liquid with water will affect extinguishment.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

#### **ACCIDENTAL RELEASE MEASURES:**

**SECTION 6 NOTES:** 

Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

**Environmental precautions** 

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Methods and material for containment and cleaning up

Eliminate all sources of ignition. Small spills should be flushed with large quantities of water, larger spills should be collected for disposal. Atomize into an incinerator where permitted under appropriate federal, state, and local regulations.

## **SECTION 7: HANDLING AND STORAGE**

HANDLING: Do NOT take internally. Flammable liquid. Keep away from heat, sparks and open flames. Keep container closed.

**STORAGE:** Handle containers carefully to prevent damage and spillage. Naked flames and smoking should not be permitted in storage areas. It is recommended that fork lift trucks and electrical equipment are protected to the appropriate standard. Incompatible materials: Anyhydride, isocyanate, monomer and organo-metallic.

OTHER PRECAUTIONS: N/A

SECTION 7 NOTES: N/A

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### **ENGINEERING CONTROLS:**

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

## **VENTILATION:**



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RESPIRATORY PROTECTION: If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

**EYE PROTECTION:** Protective goggles if desired.

**SKIN PROTECTION:** Rubber or vinyl gloves if desired.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT: N/A** 

#### **WORK HYGIENIC PRACTICES:**

Ensure showers and eyewash stations are available. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiledclothing and wash thoroughly before reuse.

**EXPOSURE GUIDELINES: N/A** 

**SECTION 8 NOTES:** 

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE & ODOR:** Colorless Liquid, Characteristic

**PHYSICAL STATE:** 

pH AS SUPPLIED: Not Measured

pH (Other): N/A **BOILING POINT: 87°F** 

**MELTING POINT:** Not Measured FREEZING POINT: Not Measured VAPOR PRESSURE (mmHg): 33

@ N/A

DENSITY (lb/gal): 2.07

@ N/A

SPECIFIC GRAVITY (H2O = 1): 0.88

@ N/A

**EVAPORATION RATE: 2.3** 

**BASIS (=1):** N/A

**SOLUBILITY IN WATER:** Complete

**PERCENT SOLIDS BY WEIGHT: N/A** 

**PERCENT VOLATILE: N/A** 

BY WT/ N/A BY VOL @ N/A

**VOLATILE ORGANIC COMPOUNDS (VOC): N/A** 

WITH WATER: N/A LBS/GAL WITHOUT WATER: N/A LBS/GAL

**MOLECULAR WEIGHT: N/A VISCOSITY: Not Measured** 

**SECTION 9 NOTES: N/A** 

## **SECTION 10: STABILITY AND REACTIVITY**

**STABLE UNSTABLE** 

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID (STABILITY): Avoid hheat, sparks and open flame.



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INCOMPATIBILITY (MATERIAL TO AVOID): Anhydride, isocyanate, monomer and organo-metallic

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Burning may product carbon monoxide and carbon dioxide contamination.

**HAZARDOUS POLYMERIZATION: N/A** 

**CONDITIONS TO AVOID (POLYMERIZATION): N/A** 

#### **SECTION 10 NOTES:**

#### Reactivity

Hazardous Polymerization will not occur.

#### SECTION 11: TOXICOLOGICAL INFORMATION

## TOXICOLOGICAL INFORMATION:

#### **Acute toxicity**

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

Ingredient Isopropyl Alcohol (67-63-0)

Oral LD50 mg/kg , 4,710.00, Rat – Category 5 Skin LD50 mg/kg, 12,800.00, Rat – Category N/A Inhalation Vapor mg/l/4hr, 72.60, Rat – Category N/A Inhalation Dust/Mist LD50 mg/l/4h – No data available Inhalation Gas LD50 ppm – No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

## **Classification Category Hazard Description**

Acute toxicity (oral) --- Not Applicable
Acute toxicity (dermal) --- Not Applicable
Acute toxicity (inhalation) --- Not Applicable
Skin corrosion/irritation --- Not Applicable
Serious eye damage/irritation 2 Causes serious eye irritation.
Respiratory sensitization --- Not Applicable
Skin sensitization --- Not Applicable
Germ cell mutagenicity --- Not Applicable
Carcinogenicity --- Not Applicable
Reproductive toxicity --- Not Applicable
STOT-single exposure 3 May cause drowsiness or dizziness.
STOT-repeated exposure --- Not Applicable
Aspiration hazard --- Not Applicable

## **SECTION 11 NOTES:**

## SECTION 12: ECOLOGICAL INFORMATION

## **ECOLOGICAL INFORMATION:**

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and GHS and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment.

Ingredient Isopropyl Alcohol (67-63-0)

96 hr LC50Fish, mg/l, 1400.00 Lepomis macrochirus 48 hr EC50 crustacea, mg/l, 100.00 Daphnnia magna ErC50 algae mg/l, 100.00 (72 hr) Soenedesmus subspicatus

#### **SECTION 12 NOTES:**

Persistence and degradability:There is no data available on the preparation itself. Bioaccumulative potential: Not Measured Mobility in soil:No data available.



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Results of PBT and vPvB assessment: This product contains no PBT/vPvB chemicals. Other adverse effects: No data available.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL METHOD: Observe all federal, state and local regulations when disposing of this product.

RCRA HAZARD CLASS: N/A
SECTION 13 NOTES: N/A

#### SECTION 14: TRANSPORT INFORMATION

#### **U.S. DEPARTMENT OF TRANSPORTATION**

PROPER SHIPPING NAME: ISOPROPANOL

HAZARD CLASS: N/A

**DOT SHIPPING ID NUMBER:** UN 1219

DOT PACKING GROUP: II
DOT HAZARD CLASS: 3
DOT LABEL STATEMENT: N/A

#### WATER TRANSPORTATION

PROPER SHIPPING NAME: ISOPROPANOL

HAZARD CLASS: 3 ID NUMBER: UN 1219 PACKING GROUP: II LABEL STATEMENTS: N/A

## **AIR TRANSPORTATION**

PROPER SHIPPING NAME: ISOPROPANOL

HAZARD CLASS: 3 ID NUMBER: UN 1219 PACKING GROUP: II LABEL STATEMENTS: N/A

**SECTION 14 NOTES:** EMS-No: F-E, S-D Small quantity Exception: 49CFR173.4

Execmption for US Ground Transportation: Limited Quantity

## **SECTION 15: REGULATORY INFORMATION**

## **U.S. FEDERAL REGULATIONS**

**TSCA (TOXIC SUBSTANCE CONTROL ACT**): All components of this material are either listed or exempt from listing on the TSCA inventory.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): N/A

SARA 311/312 HAZARD CATEGORIES: No chemicals at levels which require reporting under this statute.

SARA 313 REPORTABLE INGREDIENTS: Isopropyl Alcohol

## **STATE REGULATIONS:**

Proposition 65 - Carcinogens (>0.0%):

No chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):

No chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):

No chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):

No chemicals at levels which require reporting under this statute.

New Jersey RTK Substances (>1%):

Isopropyl Alcohol

Pennsylvania RTK Substances (>1%):

Isopropyl Alcohol



INTERNATIONAL REGULATIONS: WHMIS: B2 D2B

SDS DATE: 8/7/2015

## **SECTION 15 NOTES:**

EPCRA 302 Extremely Hazardous: No chemicals at levels which require reporting under this statute.

## **SECTION 16: OTHER INFORMATION**

**OTHER INFORMATION: N/A** 

PREPARATION INFORMATION: N/A

**DISCLAIMER:** This information relates onto to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. The information and recommendations contained herein are to the best of the manufacturer's knowledge and belief accurate and reliable as of the date indicated. No representation warranty or guarantee, however, is made with regards to accuracy, reliability or completeness. Conditions of use of the material are under the control of the user; therefore, it is the user's responsibility to satisfy itself as to the suitability and completeness of such information for its own particular use. Appropriate warnings and safe-handling procedures should be provided to handlers and users.



## \*SAFETY DATA SHEET\*

## **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: McKesson Lubricating Jelly

MFR #: 119-8919. 119-8942. 119-8946

McKesson Medical-Surgical Inc. DISTRIBUTED BY:

9954 Mayland Drive, Suite 4000 Richmond, Virginia 23233

**INFORMATION LINE:** 1-800-777-4908

Monday - Friday 8:00 a.m. - 6:00 p.m. EST

1-800-451-8346 (3E Company) **EMERGENCY PHONE:** 

Day or night

PRODUCT DESCRIPTION: Personal/Professional (clinical) lubricant

#### **SECTION 2: HAZARDS IDENTIFICATION**

**ROUTES OF ENTRY: N/A** 

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE: The product does not need classification according to OSHA HazCom Standard 29 CFR paragraph (d) of §1910.1200(g) and GHS Rev 03.

#### **POTENTIAL HEALTH EFFECTS:**

EYES: N/A SKIN: N/A

INGESTION: N/A

INHALATION: N/A

**ACUTE HEALTH HAZARDS: N/A** 

**CHRONIC HEALTH HAZARDS: N/A** 

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N/A

**CARCINOGENICITY** 

OSHA: ACGIH: N/A NTP: N/A IARC: N/A N/A OTHER:

SECTION 2 NOTES: N/A

#### **SECTION 3: COMPOSITION/INFORMATION OF INGREDIENTS**

## **CHEMICAL CHARACTERIZATION: Mixtures**

N/A

**DESCRIPTION:** Mixture of substances listed below with nonhazardous additions.

**INGREDIENT Exposure Limits** CAS NO. 7732-18-5 (RTECS: ZC 0110000) 60-90% Water, distilled, conductivity or of similar purity N/A 57-55-6 (RTECS: TY 2000000) 5-10% Propylene Glycol N/A Hydroxypropyl Methylcellulose, Combustible dust

9004-65-3

SECTION 3 NOTES: N/A

N/A

≤2.5%



#### **SECTION 4: FIRST-AID MEASURES**

EYES: Flush eyes with plenty of 1% physiological saline solution. If no saline is available, flush with copious amounts of water.

**SKIN:** Generally the product does not irritate the skin.

**INGESTION:** If swallowed and symptoms occur, consult a doctor.

INHALATION: Not a normal route of entry.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: N/A

SECTION 4 NOTES: N/A

## **SECTION 5: FIRE-FIGHTING MEASURES**

FLAMMABLE LIMITS IN AIR, UPPER: N/A (% BY VOLUME) LOWER: N/A

FLASH POINT: N/A METHOD USED: N/A

**AUTOIGNITION TEMPERATURE: N/A** 

NFPA HAZARD CLASSIFICATION

HEALTH: N/A FLAMMABILITY: N/A REACTIVITY: N/A OTHER: N/A

**HMIS HAZARD CLASSIFICATION** 

HEALTH: N/A FLAMMABILITY: N/A REACTIVITY: N/A PERSONAL: N/A

**EXTINGUISHING MEDIA:** CO<sub>2</sub> , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam

SPECIAL FIRE FIGHTING PROCEDURES: If involved in a fire, the packaging materials may produce poisonous gas.

**UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A** 

**HAZARDOUS DECOMPOSITION PRODUCTS: N/A** 

**SECTION 5 NOTES:** As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin andeyes.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

## **ACCIDENTAL RELEASE MEASURES:**

Personal precautions, protective equipment and emergency procedures Product is slippery when spilled.

**Environmental precautions:** No special measures required.

**Methods and material for containment and cleaning up:** Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13.

### Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 6 NOTES: N/A

## SECTION 7: HANDLING AND STORAGE

HANDLING: No special measures required.



STORAGE: No special measures required.

OTHER PRECAUTIONS: N/A
SECTION 7 NOTES: N/A

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** No further data; see section 7.

**VENTILATION: N/A** 

**RESPIRATORY PROTECTION: N/A** 

EYE PROTECTION: Goggles recommended during refilling.

**SKIN PROTECTION: N/A** 

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: N/A

WORK HYGIENIC PRACTICES: The usual precautionary measures for handling chemicals should be followed.

**EXPOSURE GUIDELINES:** 

Components with occupational exposure limits:

57-55-6 Propylene Glycol

WEEL Long-term value: 10 mg/m<sup>3</sup>

**SECTION 8 NOTES: N/A** 

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE & ODOR: Translucent, Odorless

PHYSICAL STATE: Gel

**pH AS SUPPLIED:** 5.6 – 6.7

pH (Other): N/A BOILING POINT: °F MELTING POINT: N/A FREEZING POINT: N/A

VAPOR PRESSURE (mmHg): N/A

@ N/A

**DENSITY (20DegC, 68DegF):** 1.01 g/cm³ (8.428lbs/gal)

@ N/A

SPECIFIC GRAVITY (H2O = 1): N/A

@ N/A

**EVAPORATION RATE:** N/A

BASIS (=1): N/A

**SOLUBILITY IN WATER:** Soluble

**PERCENT SOLIDS BY WEIGHT: N/A** 

PERCENT VOLATILE: N/A

BY WT/ N/A BY VOL @ N/A

**VOLATILE ORGANIC COMPOUNDS (VOC): N/A** 

WITH WATER: N/A LBS/GAL WITHOUT WATER: N/A LBS/GAL

MOLECULAR WEIGHT: N/A



VISCOSITY: N/A

SECTION 9 NOTES: N/A

## **SECTION 10: STABILITY AND REACTIVITY**

STABLE UNSTABLE

**STABILITY:** Stable under normal conditions

CONDITIONS TO AVOID (STABILITY): If involved in a fire, the packaging materials may produce poisonousgas.

**INCOMPATIBILITY (MATERIAL TO AVOID):** 

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** 

**HAZARDOUS POLYMERIZATION: N/A** 

**CONDITIONS TO AVOID (POLYMERIZATION): N/A** 

SECTION 10 NOTES: N/A

## SECTION 11: TOXICOLOGICAL INFORMATION

#### **TOXICOLOGICAL INFORMATION:**

#### **ACUTE TOXICITY:**

LD/LC50 values that are relevant for classification:

57-55-6 Propylene Glycol

 Oral
 LD50
 20000 mg/kg (rat)

 Oral
 LD50
 20800 mg/kg (rabbit)

 Inhalative
 LC50/96 hours Intravenous
 52930 mg/l (Pimephales)

 6630 mg/kg (mouse)

6423 mg/kg (rat) 6500 mg/kg (rabbit)

**SECTION 11 NOTES:** The product is not subject to classification according to internally approved calculation methods for preparations: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

## **SECTION 12: ECOLOGICAL INFORMATION**

**ECOLOGICAL INFORMATION:** 

AQUATIC TOXICITY: 57-55-6 Propylene Glycol EC500 >1000 mg/l (daphnia)

PERSISTENCE ANE DEGRADABILITY: No further relevant information available.

BIOACCUMULATIVE POTENTIAL: No further relevant information available.

**MOBILITY IN SOIL:** No further relevant information available. **GENERAL NOTES:** Not known to be hazardous to water.

**RESULTS AND PBT AND vPvB ASSESSMENT:** 

**PBT:** Not applicable. **vPvB:** Not applicable.

OTHER ADVERSE EFFECTS: No further relevant information available.

SECTION 12 NOTES: N/A

## SECTION 13: DISPOSAL CONSIDERATIONS



WASTE DISPOSAL METHOD: Recommendation: Small quantities can be disposed of with household waste.

**UNCLEANED PACKAGINGS:** Recommendation: Disposal must be made according to official regulations.

RCRA HAZARD CLASS: N/A

SECTION 13 NOTES: N/A

#### **SECTION 14: TRANSPORT INFORMATION**

#### U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: N/A

HAZARD CLASS: N/A

DOT SHIPPING ID NUMBER: N/A
DOT PACKING GROUP: N/A
DOT HAZARD CLASS: N/A
DOT LABEL STATEMENT:
N/A

WATER TRANSPORTATION

PROPER SHIPPING NAME: N/A

HAZARD CLASS: N/A ID NUMBER: N/A PACKING GROUP: N/A LABEL STATEMENTS:

N/A

AIR TRANSPORTATION

PROPER SHIPPING NAME: N/A HAZARD CLASS: N/A ID NUMBER: N/A

ID NUMBER: N/A
PACKING GROUP: N/A
LABEL STATEMENTS: N/A

SECTION 14 NOTES: ADR: Regulated

## **SECTION 15: REGULATORY INFORMATION**

U.S. FEDERAL REGULATIONS: The product is subject to be classified according with the latest version of the regulations onhazardous substances.

TSCA (TOXIC SUBSTANCE CONTROL ACT): N/A

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): N/A

SARA 311/312 HAZARD CATEGORIES: N/A

**SARA 313 REPORTABLE INGREDIENTS:** Contains NO hazardous ingredients subject to reporting requirements of Section 313 of SARA Title II.

STATE REGULATIONS: N/A

INTERNATIONAL REGULATIONS: N/A

SECTION 15 NOTES: N/A

### **SECTION 16: OTHER INFORMATION**

**OTHER INFORMATION:** The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose. A Chemical Safety Assessment has not been carried out.

PREPARATION INFORMATION: N/A



WASTE DISPOSAL METHOD: Recommendation: Small quantities can be disposed of with household waste.

ABBREVIATIONS AND ACRONYMS:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

# **MCKESSON**

SDS DATE: 11/12/15

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

**DISCLAIMER:** This information relates onto to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. The information and recommendations contained herein are to the best of the manufacturer's knowledge and belief accurate and reliable as of the date indicated. No representation warranty or guarantee, however, is made with regards to accuracy, reliability or completeness. Conditions of use of the material are under the control of the user; therefore, it is the user's responsibility to satisfy itself as to the suitability and completeness of such information for its own particular use. Appropriate warnings and safe-handling procedures should be provided to handlers and users.



## **SAFETY DATA SHEET**

## Section 1. Product And Company Identification

Product Name: MetriWash™

Product Use: Instrument Detergent.

Manufacturer: METREX™ RESEARCH

1717 W. Collins Ave. Orange, CA 92867

U.S.A.

**Information Phone Number**: 1-800-841-1428 (Customer Service)

<u>Chemical Emergency Phone Number (Chemical Spills, Leaks, Fire, Exposure or Accident only):</u>

CHEMTREC 1-800-424-9300 (in the US) 1-703-527-3887 (Outside the US)

SDS Date Of Preparation/Revision: 12/16/14

## Section 2. Hazards Identification

## GHS / HAZCOM 2012 Classification:

Eye Damage Category 1 Skin Irritation Category 2

**Label Elements** 

## Danger!



## **Hazard Phrases**

Causes skin irritation.

Causes serious eye damage.

## Precautionary Phrases:

Wash thoroughly after handling.

Wear protective gloves, eye protection and face protection.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical attention.

Take off contaminated clothing and wash it before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

Immediately call a POISON CENTER or doctor.



## Section 3. Composition/Information On Ingredients

Component	CAS No.	Amount
Water and non-hazardous ingredients	Mixture	30-60%
Nonionic Surfactants	Proprietary	10-20%

#### Section 4. First Aid Measures

**Inhalation**: Move to fresh air if effects occur. Seek medical attention if symptoms develop and persist.

**Skin Contact**: Wash thoroughly with soap and water for several minutes. Seek medical attention if irritation develops and persists. Remove and launder contaminated clothing.

**Eye Contact**: Hold eye open and rinse slowly and gently with water for 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Seek immediate medical attention.

**Ingestion**: If the victim is alert, have them rinse their mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Do not attempt to give anything by mouth to an unconscious person. Seek medical advice by calling a Poison Center or doctor.

**Most important symptoms and effects, acute and delayed:** Causes severe eye irritation or burns. Permanent damage may occur. Causes skin irritation. Inhalation of mists may cause irritation of the mucous membranes and upper respiratory tract.

**Indication of immediate medical attention and special treatment, if needed:** If eye contact occurs, get immediate medical attention.

## **Section 5. Fire Fighting Measures**

**Suitable (and Unsuitable) Extinguishing Media:** Use any extinguishing media that is appropriate for the surrounding fire. Cool fire exposed containers with water.

**Specific Hazards Arising from the Chemical:** After water boils off, combustion of residue may produce carbon monoxide, carbon dioxide, nitrogen oxides, and hydrocarbons.

**Special Protective Equipment and Precautions for Fire-fighters:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored.

## **Section 6: Accidental Release Measures**

**Personal precautions, Protective equipment, and Emergency procedures:** Wear appropriate protective clothing and equipment.

**Environmental Precautions:** Avoid release to the environment. Report spill as required by local and federal regulations.

**Methods and Materials for Containment and Cleaning up:** Collect material with an inert absorbent material and place in appropriate, labeled container for disposal.



## Section 7. Handling and Storage

**Precautions for Safe Handling:** Prevent contact with eyes. Avoid contact with skin and clothing. Avoid generating and breathing mists. Wear appropriate eye protection and gloves when handling (see Section 8). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

**Conditions for Safe Storage, Including any Incompatibilities:** Store at room temperature. Keep containers closed.

## Section 8. Exposure Controls / Personal Protection

## **Exposure Limits**

Chemical	Exposure Limit	
Nonionic Surfactants	None Established	

**Appropriate Engineering Controls:** General ventilation should be adequate for normal use. For operations where exposure are excessive, mechanical ventilation such as local exhaust may be needed to minimize exposure.

**Respiratory Protection**: None under normal use conditions with adequate ventilation. For operations where the exposures are excessive, a NIOSH approved dust/mist respirator is recommended. Equipment selection depends on contaminant type and concentration. Select in accordance with 29 CFR 1910.134 and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.

**Hand protection:** Impervious gloves such as neoprene are recommended.

**Eye Protection**: Safety goggles are recommended for operations where eye contact is possible.

**Skin Protection:** Wear protective clothing as needed to avoid skin contact.

**Hygiene measures:** Suitable eye wash and washing facilities should be available in the work area.

## Section 9. Physical and Chemical Properties

Appearance: Blue liquid. Odor: Odorless Not available **Odor Threshold:** pH: 6.6-8.4 Melting/Freezing Not available **Boiling** 100°C / 212°F Point: Point/Range: Flash Point: Not flammable **Evaporation Rate:** Not available **Flammability** Flammability: (Solid, Not applicable Not applicable Limits: Gas) Vapor Pressure: Same as water Vapor Density: Same as water **Relative Density:** Solubilities: 1.008 Complete (water) **Partition Coefficient: Autoignition** Not available Not flammable (N-Octanol/Water) Temperature: **Decomposition** Not available Viscosity: Not available Temperature:



## Section 10. Stability and Reactivity

Reactivity: None known.
Chemical Stability: Stable.

Possibility of Hazardous Reactions: None known.

Conditions to avoid: Avoid excessive heat.

Incompatible Materials: Strong oxidizing agents, strong acids and bleach.

Hazardous decomposition products: Thermal decomposition may produce carbon monoxide and

carbon dioxide.

## **Section 11. Toxicological Information**

## **Potential Health Effects:**

**Inhalation**: May cause irritation of the nose, throat and upper respiratory tract. Inhalation of mists may cause an allergic reaction.

**Skin Contact:** Causes irritation with redness and pain.

**Eye Contact**: Causes irritation with tearing, redness and pain. Permanent damage may occur.

**Ingestion**: Ingestion may cause gastrointestinal disturbances.

Chronic Hazards: None currently known.

**Carcinogen**: None of the components is listed as a carcinogen or potential carcinogen by IARC, NTP, ACGIH, or OSHA.

**Reproductive Toxicity:** None of the components have been shown to cause reproductive or developmental toxicity.

Mutagenic Toxicity: None of the components have been shown to cause mutagenic activity.

**Acute Toxicity Values:** No toxicity data is available for the product. Acute Toxicity Estimate (ATE):

10505 mg/kg

Nonionic Surfactants: Oral rat LD50 1300 mg/kg; Dermal rabbit LS50 >2000 mg/kg

## **Section 12. Ecological Information**

**Toxicity:** No toxicity data available for product.

Nonionic Surfactants: 96 hr EC50 Lepomis macrochirus 1-1.8 mg/L; 48 hr EC0 daphnia magna 12.2 mg/L

Persistence and degradability: Nonionic surfactants are readily biodegradable.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other Adverse Effects: None known



## **Section 13. Disposal Considerations**

**Solution Disposal:** For unused solution, flush thoroughly with large quantities if water into sewage disposal system in accordance with Federal, State, and local regulations. For used solution, the waste solution must be characterized by the generator and disposed of in accordance with Federal, State, and local regulations.

**Container Disposal**: Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. If recycling is not available, discard in trash.

## **Section 14. Transport Information**

	UN Number	UN Proper Shipping Name	Hazard Class(s)	Packing Group	Environmental Hazards
US DOT	None	Not Regulated			None
Canada TDG	None	Not Regulated			None
IMDG	None	Not Regulated			None
IATA/ICAO	None	Not Regulated			None

## **Section 15. Regulatory Information**

## **U.S. Federal Regulations:**

EPA SARA 311/312 Hazard Classification: Acute Health

**EPA SARA 313**: This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

**Protection Of Stratospheric Ozone**: This product is not known to contain or to have been manufactured with ozone depleting substances as defined in 40 CFR Part 82, Appendix A to Subpart A.

**CERCLA SECTION 103**: This product is not subject to CERCLA reporting requirements; however, many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**California Proposition 65:** This product contains a chemical known to the State of California to cause cancer or reproductive toxicity.

## **Canadian Regulations**

**National Pollutant Release Inventory (NPRI)**: This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements NPRI: None

WHMIS Classification: Class D-2-B

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all the information required by the *Controlled Products Regulations*.



**US EPA TSCA Inventory:** All of the components of this product are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory or exempt.

**Canadian Environmental Protection Act:** All of the components in this product are listed on the Domestic Substances List (DSL) or exempt.

**Australia:** All of the components in this product are listed on the Australian Inventory of Chemical Substances (AICS) or exempt.

**China:** All of the components in this product are listed on the Inventory of Existing Chemical Substances in China (IECSC) or exempt.

European Union: All the components in this product are listed on the EINECS inventory or exempt.

**Korea:** All of the components in this product are listed on the Korean Existing Chemicals List (KECL) or exempt.

**New Zealand:** All of the components in this product are listed on the New Zealand Inventory of Chemicals (NZIoC) or exempt.

**Philippines:** All of the components of this product are listed on the Philippines Inventory of Chemicals and Chemical Substances (PICCS) or exempt.

## **Section 16. Other Information**

NFPA Rating: Fire: 0 Health: 3 Instability: 0

**Effective Date:** 12/16/2014

Supersedes Date: 12/18/2012

Revision Summary: All sections. Converted to GHS format

The information and recommendations set forth herein are taken from sources believed to be accurate as of the date of preparation, however, METREX™ RESEARCH makes no warranty with respect to the accuracy or suitability of the recommendations, and assumes no liability to any use thereof.



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fuctive" This SDS conforms to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

Date of issue: 01/01/1979 Revision date: 10/21/2016 Supersedes: 10/03/2014

## SECTION: 1. Product and company identification

#### 1.1. Product identifier

Product form : Substance

Name : Nitrogen, refrigerated liquid

CAS No : 7727-37-9
Formula : N2

Other means of identification : Nitrogen (cryogenic liquid), Nitrogen, Medipure Liquid Nitrogen

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Medical applications

Industrial use Food applications

## 1.3. Details of the supplier of the safety data sheet

Praxair, Inc. 10 Riverview Drive

Danbury, CT 06810-6268 - USA

T 1-800-772-9247 (1-800-PRAXAIR) - F 1-716-879-2146

www.praxair.com

#### 1.4. Emergency telephone number

Emergency number : Onsite Emergency: 1-800-645-4633

CHEMTREC, 24hr/day 7days/week

- Within USA: 1-800-424-9300, Outside USA: 001-703-527-3887

(collect calls accepted, Contract 17729)

## **SECTION 2: Hazard identification**

## 2.1. Classification of the substance or mixture

#### **GHS-US** classification

Refrigerated liquefied gas H281

## 2.2. Label elements

## **GHS-US** labeling

Hazard pictograms (GHS-US)



GHS04

Signal word (GHS-US) : WARNING

Hazard statements (GHS-US) : H281 - CONTAINS REFRIGERATED GAS; MAY CAUSE CRYOGENIC BURNS OR INJURY

OSHA-H01 - MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION

Precautionary statements (GHS-US) : P202 - Do not handle until all safety precautions have been read and understood

P271+P403 - Use and store only outdoors or in a well-ventilated place

P282 - Wear cold insulating gloves/face shield/eye protection. cold insulating gloves, face

shield, eye protection

CGA-PG05 - Use a back flow preventive device in the piping CGA-PG24 - DO NOT change or force fit connections CGA-PG06 - Close valve after each use and when empty CGA-PG23 - Always keep container in upright position

## 2.3. Other hazards

Other hazards not contributing to the : Asphyxiant in high concentrations

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classification

Contact with liquid may cause cold burns/frostbite.

**Unknown acute toxicity (GHS US)** 2.4.

No data available

## **SECTION 3: Composition/Information on ingredients**

#### **Substance**

Name	Product identifier	%
Nitrogen, refrigerated liquid (Main constituent)	(CAS No) 7727-37-9	100

#### 3.2. **Mixture**

Not applicable

#### **SECTION 4: First aid measures**

#### **Description of first aid measures**

First-aid measures after inhalation

Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.

First-aid measures after skin contact

The liquid may cause frostbite. For exposure to liquid, immediately warm frostbite area with warm water not to exceed 105°F (41°C). Water temperature should be tolerable to normal skin. Maintain skin warming for at least 15 minutes or until normal coloring and sensation have returned to the affected area. In case of massive exposure, remove clothing while showering with warm water. Seek medical evaluation and treatment as soon as possible.

First-aid measures after eye contact

Immediately flush eyes thoroughly with water for at least 15 minutes. Hold the eyelids open and away from the eyeballs to ensure that all surfaces are flushed thoroughly. Contact an

ophthalmologist immediately.. Get immediate medical attention.

First-aid measures after ingestion

: Ingestion is not considered a potential route of exposure.

#### 4.2. Most important symptoms and effects, both acute and delayed

No additional information available

#### 4.3. Indication of any immediate medical attention and special treatment needed

None.

## **SECTION 5: Firefighting measures**

## **Extinguishing media**

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

#### 5.2. Special hazards arising from the substance or mixture

Reactivity : No reactivity hazard other than the effects described in sub-sections below.

#### 5.3. **Advice for firefighters**

Firefighting instructions

DANGER! Extremely cold liquid and gas under pressure. Take care not to direct spray onto vents on top of container. Do not discharge sprays directly into liquid; cryogenic liquid can freeze water rapidly

Evacuate all personnel from the danger area. Use self-contained breathing apparatus (SCBA) and protective clothing. Immediately cool containers with water from maximum distance. Stop flow of gas if safe to do so, while continuing cooling water spray. Remove ignition sources if safe to do so. Remove containers from area of fire if safe to do so. On-site fire brigades must comply with OSHA 29 CFR 1910.156 and applicable standards under 29 CFR 1910 Subpart L-Fire Protection.

Protection during firefighting

Compressed gas: asphyxiant. Suffocation hazard by lack of oxygen.

Special protective equipment for fire fighters

Use self-contained breathing apparatus. Standard protective clothing and equipment (Self

Contained Breathing Apparatus) for fire fighters.



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Specific methods

: Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat radiation may cause gas containers to rupture. Cool endangered containers with water spray jet from a protected position. Prevent water used in emergency cases from entering sewers and drainage systems

Exposure to fire may cause containers to rupture/explode

Stop flow of product if safe to do so

Use water spray or fog to knock down fire fumes if possible

If leaking do not spray water onto container. Water surrounding area (from protected position) to contain fire.

Other information

: Cryogenic liquid causes severe frostbite, a burn-like injury. Heat of fire can build pressure in a closed container and cause it to rupture. Venting vapors may obscure visibility. Air will condense on surfaces such as vaporizers or piping exposed to liquid or cold gas. Nitrogen, which has a lower boiling point than oxygen, evaporates first, leaving an oxygen-enriched condensate

Containers are equipped with a pressure relief device. (Exceptions may exist where authorized by DOT.).

## **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

General measures

: Evacuate area. Ensure adequate air ventilation. Wear self-contained breathing apparatus when entering area unless atmosphere is proven to be safe. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Stop leak if safe to do so.

#### 6.1.1. For non-emergency personnel

No additional information available

## 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

Try to stop release.

## 6.3. Methods and material for containment and cleaning up

No additional information available

#### 6.4. Reference to other sections

See also sections 8 and 13.

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Precautions for safe handling

Wear leather safety gloves and safety shoes when handling cylinders. Protect cylinders from physical damage; do not drag, roll, slide or drop. While moving cylinder, always keep in place removable valve cover. Never attempt to lift a cylinder by its cap; the cap is intended solely to protect the valve. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Never insert an object (e.g, wrench, screwdriver, pry bar) into cap openings; doing so may damage the valve and cause a leak. Use an adjustable strap wrench to remove over-tight or rusted caps. Slowly open the valve. If the valve is hard to open, discontinue use and contact your supplier. Close the container valve after each use; keep closed even when empty. Never apply flame or localized heat directly to any part of the container. High temperatures may damage the container and could cause the pressure relief device to fail prematurely, venting the container contents. For other precautions in using this product, see section 16.



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#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store in a cool, well-ventilated place. Store and use with adequate ventilation. Store only where temperature will not exceed 125°F (52°C). Firmly secure containers upright to keep them from falling or being knocked over. Install valve protection cap, if provided, firmly in place by hand. Store full and empty containers separately. Use a first-in, first-out inventory system to prevent storing full containers for long periods

OTHER PRECAUTIONS FOR HANDLING, STORAGE, AND USE: When handling product under pressure, use piping and equipment adequately designed to withstand the pressures to be encountered. Never work on a pressurized system. Use a back flow preventive device in the piping. Gases can cause rapid suffocation because of oxygen deficiency; store and use with adequate ventilation. If a leak occurs, close the container valve and blow down the system in a safe and environmentally correct manner in compliance with all international, federal/national, state/provincial, and local laws; then repair the leak. Never place a container where it may become part of an electrical circuit.

#### 7.3. Specific end use(s)

None.

## **SECTION 8: Exposure controls/personal protection**

#### **Control parameters** 8.1.

Nitrogen, refrigerated liquid (7727-37-9)		
ACGIH	Not established	
USA OSHA	Not established	

#### **Exposure controls**

Appropriate engineering controls

: Oxygen detectors should be used when asphyxiating gases may be released. Systems under pressure should be regularly checked for leakages. Provide adequate general and local exhaust ventilation. Consider work permit system e.g. for maintenance activities.

Hand protection

: Wear working gloves when handling gas containers.

Eye protection

Wear safety glasses with side shields. Wear goggles and a face shield when transfilling or breaking transfer connections.

Respiratory protection

Self contained breathing apparatus (SCBA) or positive pressure airline with mask are to be used in oxygen-deficient atmospheres.

Thermal hazard protection

Wear cold insulating gloves. Wear cold insulating gloves when transfilling or breaking transfer connections.

Environmental exposure controls

None necessary.

Other information

: Wear safety shoes while handling containers.

## **SECTION 9: Physical and chemical properties**

## Information on basic physical and chemical properties

Physical state : Gas

Appearance Colorless liquid. Molecular mass 28 g/mol Color Colorless liquid.

Odor No odor warning properties.

Odor threshold No data available Not applicable. Relative evaporation rate (butyl acetate=1) : No data available Relative evaporation rate (ether=1) : Not applicable. Melting point -210 °C

Freezing point No data available

Boiling point -195.8 °C Flash point : No data available

Critical temperature -149 9 °C



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Auto-ignition temperature : Not applicable. Decomposition temperature : No data available Flammability (solid, gas) No data available Vapor pressure : Not applicable. Critical pressure 3390 kPa

Relative vapor density at 20 °C No data available

Relative density : 0.8

Density : 808.5 kg/m³ Liquid density at boiling point and 1 atm

Relative gas density : 0.97

Solubility Water: 20 mg/l Log Pow Not applicable. Log Kow Not applicable. Viscosity, kinematic Not applicable. Viscosity, dynamic Not applicable. Explosive properties : Not applicable.

Oxidizing properties : None.

**Explosion limits** No data available

9.2. Other information

Gas group : Refrigerated liquefied gas

Additional information Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground

level

## **SECTION 10: Stability and reactivity**

## Reactivity

No reactivity hazard other than the effects described in sub-sections below.

#### 10.2. **Chemical stability**

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

None.

#### 10.4. **Conditions to avoid**

Avoid high temperatures, exposure to Lithium (Li), Neodymium (Nd), Titanium (Ti), Magnesium.

#### 10.5. Incompatible materials

None.

#### 10.6. **Hazardous decomposition products**

Under certain conditions, nitrogen can react violently with lithium, neodymium, titanium (above 1472°F/800°C), and magnesium to form nitrides. At high temperature, it can also combine with oxygen and hydrogen.

## **SECTION 11: Toxicological information**

## Information on toxicological effects

: Not classified Acute toxicity

Skin corrosion/irritation : Not classified

> pH: Not applicable. Not classified

Serious eye damage/irritation pH: Not applicable.

Respiratory or skin sensitization Not classified Germ cell mutagenicity Not classified Carcinogenicity Not classified

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Reproductive toxicity : Not classified Specific target organ toxicity (single exposure) : Not classified Specific target organ toxicity (repeated : Not classified

exposure)

Aspiration hazard : Not classified

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : No ecological damage caused by this product.

## 12.2. Persistence and degradability

Nitrogen, refrigerated liquid (7727-37-9)		
Persistence and degradability	No ecological damage caused by this product.	

## 12.3. Bioaccumulative potential

Nitrogen, refrigerated liquid (7727-37-9)		
Log Pow	Not applicable.	
Log Kow	Not applicable.	
Bioaccumulative potential	No ecological damage caused by this product.	

#### 12.4. Mobility in soil

Nitrogen, refrigerated liquid (7727-37-9)	
Mobility in soil	No data available.
Ecology - soil	No ecological damage caused by this product.

## 12.5. Other adverse effects

Other adverse effects : Can cause frost damage to vegetation.

Effect on ozone layer : None

Effect on the global warming : No known effects from this product

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/container in accordance with local/regional/national/international

regulations. Contact supplier for any special requirements.

## **SECTION 14: Transport information**

In accordance with DOT

Transport document description : UN1977 Nitrogen, refrigerated liquid (cryogenic liquid), 2.2

UN-No.(DOT) : UN1977

Proper Shipping Name (DOT) : Nitrogen, refrigerated liquid

cryogenic liquid

Class (DOT) : 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115

Hazard labels (DOT) : 2.2 - Non-flammable gas





Safety Data Sheet P-4630

This SDS conforms to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

Date of issue: 01/01/1979 Revision date: 10/21/2016 Supersedes: 10/03/2014

DOT Special Provisions (49 CFR 172.102)

345 - "Nitrogen, refrigerated liquid (cryogenic liquid), UN1977" transported in open cryogenic receptacles with a maximum capacity of 1 L are not subject to the requirements of this subchapter. The receptacles must be constructed with glass double walls having the space between the walls vacuum insulated and each receptacle must be transported in an outer packaging with sufficient cushioning and absorbent materials to protect the receptacle from damage

346 - "Nitrogen, refrigerated liquid (cryogenic liquid), UN1977" transported in accordance with the requirements for open cryogenic receptacles in §173.320 and this special provision are not subject to any other requirements of this subchapter. The receptacle must contain no hazardous materials other than the liquid nitrogen which must be fully absorbed in a porous material in the receptacle

T75 - When portable tank instruction T75 is referenced in Column (7) of the 172.101 Table, the applicable refrigerated liquefied gases are authorized to be transported in portable tanks in accordance with the requirements of 178.277 of this subchapter

TP5 - For a portable tank used for the transport of flammable refrigerated liquefied gases or refrigerated liquefied oxygen, the maximum rate at which the portable tank may be filled must not exceed the liquid flow capacity of the primary pressure relief system rated at a pressure not exceeding 120 percent of the portable tank's design pressure. For portable tanks used for the transport of refrigerated liquefied helium and refrigerated liquefied atmospheric gas (except oxygen), the maximum rate at which the tank is filled must not exceed the liquid flow capacity of the pressure relief device rated at 130 percent of the portable tank's design pressure. Except for a portable tank containing refrigerated liquefied helium, a portable tank shall have an outage of at least two percent below the inlet of the pressure relief device or pressure control valve, under conditions of incipient opening, with the portable tank in a level attitude. No outage is required for helium

#### **Additional information**

Emergency Response Guide (ERG) Number : 121 (UN1066);120 (UN1977)

Other information : No supplementary information available.

Special transport precautions : Avoid transport on vehicles where the load space is not separated from the driver's

compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers:
- Ensure there is adequate ventilation. - Ensure that containers are firmly secured. - Ensure cylinder valve is closed and not leaking. - Ensure valve outlet cap nut or plug (where provided) is correctly fitted. - Ensure valve protection device (where provided) is correctly fitted.

## Transport by sea

UN-No. (IMDG) : 1977

Proper Shipping Name (IMDG) : NITROGEN, REFRIGERATED LIQUID Class (IMDG) : 2.2 - Non-flammable, non-toxic gases

MFAG-No : 120

Air transport

UN-No. (IATA) : 1977

Proper Shipping Name (IATA) : NITROGEN, REFRIGERATED LIQUID

Class (IATA) : 2

Civil Aeronautics Law : Gases under pressure/Gases nonflammable nontoxic under pressure

## **SECTION 15: Regulatory information**

## 15.1. US Federal regulations

Nitrogen, refrigerated liquid (7727-37-9)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
SARA Section 311/312 Hazard Classes Immediate (acute) health hazard Sudden release of pressure hazard		

All components of this product are listed on the Toxic Substances Control Act (TSCA) inventory.



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> This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

## 15.2. International regulations

#### **CANADA**

## Nitrogen, refrigerated liquid (7727-37-9)

Listed on the Canadian DSL (Domestic Substances List)

## **EU-Regulations**

## Nitrogen, refrigerated liquid (7727-37-9)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### 15.2.2. National regulations

## Nitrogen, refrigerated liquid (7727-37-9)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

## 15.3. US State regulations

Nitrogen, refrigerated liquid(7727-37-9)	
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	No
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	No
State or local regulations	U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm



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## **SECTION 16: Other information**

Other information

: When you mix two or more chemicals, you can create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an industrial hygienist or other trained person when you evaluate the end product. Before using any plastics, confirm their compatibility with this product

Praxair asks users of this product to study this SDS and become aware of the product hazards and safety information. To promote safe use of this product, a user should (1) notify employees, agents, and contractors of the information in this SDS and of any other known product hazards and safety information, (2) furnish this information to each purchaser of the product, and (3) ask each purchaser to notify its employees and customers of the product hazards and safety information

The opinions expressed herein are those of qualified experts within Praxair, Inc. We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and the conditions of use are not within the control of Praxair, Inc, it is the user's obligation to determine the conditions of safe use of the product

Praxair SDSs are furnished on sale or delivery by Praxair or the independent distributors and suppliers who package and sell our products. To obtain current SDSs for these products, contact your Praxair sales representative, local distributor, or supplier, or download from www.praxair.com. If you have questions regarding Praxair SDSs, would like the document number and date of the latest SDS, or would like the names of the Praxair suppliers in your area, phone or write the Praxair Call Center (Phone: 1-800-PRAXAIR/1-800-772-9247; Address: Praxair Call Center, Praxair, Inc, P.O. Box 44, Tonawanda, NY 14151-0044)

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NFPA health hazard : 3 - Short exposure could cause serious temporary or

residual injury even though prompt medical attention was

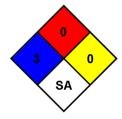
given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.

NFPA specific hazard : SA - This denotes gases which are simple asphyxiants.



## **HMIS III Rating**

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is

given

Flammability : 0 Minimal Hazard
Physical : 2 Moderate Hazard

SDS US (GHS HazCom 2012) - Praxair

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.



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## IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

**Product Identifier** 

Material Name: Nitroglycerin Tablets (0.4, and 0.6 mg)

Trade Name: NITROSTAT; VERNIES

Chemical Family: Mixture

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Intended Use: Pharmaceutical product for the treatment of angina pectoris

**Details of the Supplier of the Safety Data Sheet** 

Pfizer Inc Pfizer Pharmaceuticals Group 235 East 42nd Street New York, New York 10017 1-800-879-3477

Emergency telephone number:
CHEMTREC (24 hours): 1-800-424-9300
Contact E-Mail: pfizer-MSDS@pfizer.com

Pfizer Ltd Ramsgate Road Sandwich, Kent CT13 9NJ United Kingdom +00 44 (0)1304 616161

Emergency telephone number:

International CHEMTREC (24 hours): +1-703-527-3887

## 2. HAZARDS IDENTIFICATION

## **Classification of the Substance or Mixture**

**GHS - Classification** 

Acute Oral Toxicity: Category 4

Acute Toxicity - Dusts and Mists: Category 4

Specific target organ systemic toxicity (repeated exposure): Category 2

## **Label Elements**

Signal Word: Warning

Hazard Statements: H304 - May be fatal if swallowed and enters airways

H332 - Harmful if inhaled

H373 - May cause damage to organs through prolonged or repeated exposure: cardiovascular

Precautionary Statements: P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P264 - Wash hands thoroughly after handling

P270 - Do not eat, drink or smoke when using this product P271 - Use only outdoors or in a well-ventilated area

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing

P301+ P312 - IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel

unwell

P312 - Call a POISON CENTRE/doctor/physician if you feel unwell

P501 - Dispose of contents/container in accordance with all local and national regulations

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Other Hazards Note:

No data available

This document has been prepared in accordance with standards for workplace safety, which require the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warnings included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your workplace.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### Hazardous

Tidzai dous						
Ingredient	CAS Number	EU EINECS/ELINCS List	GHS Classification	%		
Nitroglycerin	55-63-0	200-240-8	Acute Tox. 2 (H300) Acute Tox. 2 (H310) STOT RE 2 (H373) Aquatic Chronic 2 (H411) Acute Tox. 2 (H330) Unst. Expl. (H200)	1.14 - 1.5		
Glyceryl monostearate	31566-31-1	250-705-4	Not Listed	*		
Silicon dioxide, colloidal NF	7631-86-9	231-545-4	Not Listed	*		
Calcium stearate	1592-23-0	216-472-8	Not Listed	*		
Starch, pregelatinized	9005-25-8	232-679-6	Not Listed	*		

Ingredient	CAS Number	EU EINECS/ELINCS List	GHS Classification	%
Lactose NF, monohydrate	64044-51-5	Not Listed	Not Listed	*

Additional Information:

\* Proprietary

Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety. In accordance with 29 CFR 1910.1200, the exact percentage composition of this

mixture has been withheld as a trade secret.

## For the full text of the CLP/GHS abbreviations mentioned in this Section, see Section 16

## 4. FIRST AID MEASURES

**Description of First Aid Measures** 

Eye Contact: Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention

immediately.

Skin Contact: Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek

medical attention.

**Ingestion:** Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not

induce vomiting unless directed by medical personnel. Seek medical attention immediately.

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**Inhalation:** Remove to fresh air and keep patient at rest. Seek medical attention immediately.

Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms and Effects of For information on potential signs and symptoms of exposure, See Section 2 - Hazards

**Exposure:** Identification and/or Section 11 - Toxicological Information.

Medical Conditions None known

Aggravated by Exposure:

Indication of the Immediate Medical Attention and Special Treatment Needed

Notes to Physician: None

## 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** Use carbon dioxide, dry chemical, or water spray.

Special Hazards Arising from the Substance or Mixture

**Hazardous Combustion** Formation of toxic gases is possible during heating or fire.

**Products:** 

Fire / Explosion Hazards: Not applicable

**Advice for Fire-Fighters** 

During all fire fighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment and Emergency Procedures

Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.

## **Environmental Precautions**

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

## Methods and Material for Containment and Cleaning Up

**Measures for Cleaning /** 

Collecting:

Contain the source of spill if it is safe to do so. Collect spilled material by a method that controls dust generation. A damp cloth or a filtered vacuum should be used to clean spills of

dry solids. Clean spill area thoroughly.

Additional Consideration for

Large Spills:

Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Clean up operations should only be undertaken by trained personnel.

## 7. HANDLING AND STORAGE

## **Precautions for Safe Handling**

Minimize dust generation and accumulation. If tablets or capsules are crushed and/or broken, avoid breathing dust and avoid contact with eyes, skin, and clothing. When handling, use appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. Releases to the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of process emissions of this material to the atmosphere should be controlled with dust collectors, HEPA filtration systems or other equivalent controls.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Store as directed by product packaging.

Specific end use(s): Pharmaceutical product

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Control Parameters**

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Refer to available public information for specific member state Occupational Exposure Limits.

**Nitroglycerin** 

**ACGIH Threshold Limit Value (TWA)** mag 20.0

**ACGIH - Skin Absorption Designation** Skin - potential significant contribution to overall exposure by the

cutaneous route

**Australia TWA** 0.05 ppm 0.46 mg/m<sup>3</sup>

0.05 ppm

Austria OEL - MAKs

0.5 mg/m<sup>3</sup> 0.05 ppm

**Belgium OEL - TWA** 

0.47 mg/m<sup>3</sup> 0.5 mg/m<sup>3</sup>

Czech Republic OEL - TWA

0.03 ppm

Estonia OEL - TWA

0.3 mg/m<sup>3</sup>

0.03 ppm

**Finland OEL - TWA** 

0.3 mg/m<sup>3</sup> 0.1 ppm

France OEL - TWA

 $1 \text{ mg/m}^3$ 

Germany - TRGS 900 - TWAs

0.01 ppm 0.094 mg/m<sup>3</sup>

Germany (DFG) - MAK

0.01 ppm

0.094 mg/m<sup>3</sup>  $0.5 \mu g/L$ 

**Germany - Biological Exposure Limit:** 

0.2 ppm

**Greece OEL - TWA** 

2 mg/m<sup>3</sup>

**Hungary OEL - TWA** 

0.5 mg/m<sup>3</sup> 0.05 ppm

**Ireland OEL - TWAs** 

0.5 mg/m<sup>3</sup>

Japan - OELs - Ceilings

0.05 ppm

0.46 mg/m<sup>3</sup>

Lithuania OEL - TWA

0.03 ppm  $0.3 \text{ mg/m}^{3}$ 

**OSHA - Final PELs - Skin Notations:** 

prevent or reduce skin absorption

Poland OEL - TWA

 $0.5 \text{ mg/m}^{3}$ 

Portugal OEL - TWA

0.05 ppm

Romania OEL - TWA

0.006 ppm 0.05 mg/m<sup>3</sup>

Slovakia OEL - TWA

0.05 ppm

0.47 mg/m<sup>3</sup> 0.05 ppm

Slovenia OEL - TWA

0.47 mg/m<sup>3</sup>

Spain OEL - TWA

0.05 ppm 0.5 mg/m<sup>3</sup>

Sweden OEL - TWAs

0.03 ppm 0.3 mg/m<sup>3</sup>

**Switzerland OEL -TWAs** 

0.01 ppm

0.094 mg/m<sup>3</sup>

**UK - Biological Exposure Limit:** 

Vietnam OEL - TWAs

15 µmol/mol creatinine 0.5 mg/m<sup>3</sup>

Glyceryl monostearate

**ACGIH Threshold Limit Value (TWA)** 

10 mg/m<sup>3</sup>

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EVENCUEE CONTROLS / DEDCONAL PROTECTION

8. EXPOSURE CONTROLS / PERSONAL PRO Lithuania OEL - TWA	5 mg/m <sup>3</sup>
Sweden OEL - TWA	5 mg/m <sup>3</sup>
Sweden OEL - TWAS	5 mg/m
Silicon dioxide, colloidal NF	
Australia TWA	2 mg/m <sup>3</sup>
Austria OEL - MAKs	4 mg/m <sup>3</sup>
	0.3 mg/m <sup>3</sup>
Czech Republic OEL - TWA	0.1 mg/m <sup>3</sup>
	4.0 mg/m <sup>3</sup>
Estonia OEL - TWA	2 mg/m³
Finland OEL - TWA	5 mg/m <sup>3</sup>
Germany - TRGS 900 - TWAs	4 mg/m <sup>3</sup>
Germany (DFG) - MAK	4 mg/m <sup>3</sup>
Ireland OEL - TWAs	6 mg/m <sup>3</sup>
	2.4 mg/m <sup>3</sup>
Latvia OEL - TWA	1 mg/m³
OSHA - Final PELs - Table Z-3 Mineral D:	20 mppcf Listed
Slovakia OEL - TWA	4.0 mg/m <sup>3</sup>
Switzerland OEL -TWA	4.0 mg/m <sup>3</sup>
Switzerianu OEL - I WAS	4 mg/m <sup>3</sup>
	o.o mg/m
Calcium stearate	
ACGIH Threshold Limit Value (TWA)	10 mg/m <sup>3</sup>
Lithuania OEL - TWA	5 mg/m <sup>3</sup>
Sweden OEL - TWAs	5 mg/m <sup>3</sup>
Starch, pregelatinized	40
ACGIH Threshold Limit Value (TWA)	10 mg/m³
Australia TWA	10 mg/m <sup>3</sup>
Belgium OEL - TWA	10 mg/m³ 10.0 mg/m³
Bulgaria OEL - TWA Czech Republic OEL - TWA	4.0 mg/m <sup>3</sup>
Greece OEL - TWA	4.0 mg/m <sup>3</sup>
Greece OEL - I WA	5 mg/m <sup>3</sup>
Ireland OEL - TWAs	10 mg/m³
ii Gialiu OLL - I WAS	4 mg/m <sup>3</sup>
OSHA - Final PELS - TWAs:	15 mg/m <sup>3</sup>
Portugal OEL - TWA	10 mg/m <sup>3</sup>
Slovakia OEL - TWA	4 mg/m³
Spain OEL - TWA	10 mg/m <sup>3</sup>
Switzerland OEL -TWAs	3 mg/m <sup>3</sup>
OTTLETICITY OFF -1 11/10	o mg/m

**Exposure Controls** 

Hands:

Engineering controls should be used as the primary means to control exposures. General **Engineering Controls:** 

room ventilation is adequate unless the process generates dust, mist or fumes. Keep airborne

contamination levels below the exposure limits listed above in this section.

**Personal Protective** 

Refer to applicable national standards and regulations in the selection and use of personal

**Equipment:** 

protective equipment (PPE).

Impervious gloves are recommended if skin contact with drug product is possible and for bulk

processing operations.

Eyes: Wear safety glasses or goggles if eye contact is possible.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Skin: Impervious protective clothing is recommended if skin contact with drug product is possible and

for bulk processing operations.

**Respiratory protection:** If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate

respirator with a protection factor sufficient to control exposures to below the OEL.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Tablet Color: White

Odor: No data available. Odor Threshold: No data available.

Molecular Formula: Mixture Molecular Weight: Mixture

Solvent Solubility:

Water Solubility:

PH:

No data available

No data available

No data available.

No data available.

No data available.

No data available

No data available.

No data available.

Partition Coefficient: (Method, pH, Endpoint, Value)

Calcium stearate
No data available
Glyceryl monostearate
No data available

Lactose NF, monohydrate

No data available **Nitroglycerin** No data available

Silicon dioxide, colloidal NF

No data available **Starch, pregelatinized** No data available

**Decomposition Temperature (°C):** No data available.

Evaporation Rate (Gram/s):

Vapor Pressure (kPa):

Vapor Density (g/ml):

Relative Density:

No data available

Flammablity:

Autoignition Temperature (Solid) (°C):No data availableFlammability (Solids):No data availableFlash Point (Liquid) (°C):No data availableUpper Explosive Limits (Liquid) (% by Vol.):No data available

Lower Explosive Limits (Liquid) (% by Vol.): No data available The active ingredient in this formulation is highly

explosive. However, based on the amount of active ingredient contained in this product it is not expected to pose an explosion

risk.

Polymerization: Will not occur

## 10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions of use.

Possibility of Hazardous Reactions

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## 10. STABILITY AND REACTIVITY

Oxidizing Properties: No data available

Conditions to Avoid: Avoid direct sunlight, conditions that might generate heat, and sources of ignition.

Incompatible Materials: As a precautionary measure, keep away from strong oxidizers

Hazardous Decomposition None known

**Products:** 

## 11. TOXICOLOGICAL INFORMATION

## **Information on Toxicological Effects**

General Information: The inf

The information included in this section describes the potential hazards of the individual

ingredients.

Short Term: May be absorbed through the skin and cause systemic effects. Chest pain, acute myocardial

infarction, and sudden death have occurred during temporary withdrawal of organic nitrates

from industrial workers exposed for long periods of time.

Known Clinical Effects: Headache, which may be severe and persistent, may occur immediately after use. Vertigo,

dizziness, weakness, palpitation, and other manifestations of postural hypotension may develop occasionally. Flushing, drug rash, and exfoliative dermatitis have been reported in

patients receiving nitrate therapy.

## Acute Toxicity: (Species, Route, End Point, Dose)

#### Glyceryl monostearate

Mouse IP LD50 200 mg/kg

## Nitroglycerin

Rat Oral LD50 105 mg/kg

Mouse Oral LD50 115mg/kg

Rabbit Dermal LD50 > 280mg/kg

Rat Dermal LD50 > 29mg/kg

Rat IV LD50 23.2mg/kg

**Acute Toxicity Comments:** 

A greater than symbol (>) indicates that the toxicity endpoint being tested was not achievable

at the highest dose used in the test.

#### Reproduction & Development Toxicity: (Duration, Species, Route, Dose, End Point, Effect(s))

## Nitroglycerin

Fertility and Embryonic Development Rat Oral434 mg/kg/day NOAEL Negative Embryo / Fetal Development Rabbit Oral 240 mg/kg/day NOAEL Not Teratogenic

#### Genetic Toxicity: (Study Type, Cell Type/Organism, Result)

#### Nitroglycerin

Bacterial Mutagenicity (Ames) Salmonella Positive In Vivo Dominant Lethal Assay Rat Negative In Vitro Cytogenetics Rat Negative

#### Carcinogenicity: (Duration, Species, Route, Dose, End Point, Effect(s))

#### **Nitroglycerin**

2 Year(s) Rat Oral 434 mg/kg/day LOAEL Liver, Male reproductive system

2 Year(s) Mouse Oral 1058 mg/kg/day NOAEL Not carcinogenic

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## 11. TOXICOLOGICAL INFORMATION

Carcinogen Status: None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

Silicon dioxide, colloidal NF

IARC: Group 3 (Not Classifiable)

## 12. ECOLOGICAL INFORMATION

Environmental Overview: Based on the concentration of the active ingredient in the formulation, No harmful effects to

aquatic organisms are expected.

**Toxicity:** 

Aquatic Toxicity: (Species, Method, End Point, Duration, Result)

Nitroglycerin

Lepomis macrochirus (Bluegill Sunfish) LC50 96 Hours 1.91 mg/L

Midge LC50 48 Hours 20 mg/L

Persistence and Degradability: No data available

Bio-accumulative Potential: No data available

Mobility in Soil: No data available

## 13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Dispose of waste in accordance with all applicable laws and regulations. Member State

specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental

releases. This may include destructive techniques for waste and wastewater.

Nitroglycerin

RCRA - P Series Wastes Listed

### 14. TRANSPORT INFORMATION

The following refers to all modes of transportation unless specified below.

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

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## 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

#### **Nitroglycerin**

1.0 % **CERCLA/SARA 313 Emission reporting CERCLA/SARA Hazardous Substances** 10 lb 4.54 kg and their Reportable Quantities: **California Proposition 65** Not Listed Inventory - United States TSCA - Sect. 8(b) Present Australia (AICS): Present Standard for the Uniform Scheduling Schedule 3 for Drugs and Poisons: Schedule 4 **EU EINECS/ELINCS List** 200-240-8

#### Glyceryl monostearate

**CERCLA/SARA 313 Emission reporting** Not Listed **California Proposition 65** Not Listed Inventory - United States TSCA - Sect. 8(b) Present Australia (AICS): Present 250-705-4 **EU EINECS/ELINCS List** 

#### Silicon dioxide, colloidal NF

**CERCLA/SARA 313 Emission reporting** Not Listed Not Listed **California Proposition 65** Present Inventory - United States TSCA - Sect. 8(b) Australia (AICS): Present **EU EINECS/ELINCS List** 231-545-4

## **Calcium stearate**

**CERCLA/SARA 313 Emission reporting** Not Listed **California Proposition 65** Not Listed Inventory - United States TSCA - Sect. 8(b) Present Australia (AICS): Present **EU EINECS/ELINCS List** 216-472-8

## Starch, pregelatinized

Not Listed **CERCLA/SARA 313 Emission reporting** Not Listed **California Proposition 65** Inventory - United States TSCA - Sect. 8(b) Present Present Australia (AICS): **REACH - Annex IV - Exemptions from the** Present obligations of Register:

**EU EINECS/ELINCS List** 232-679-6

### Lactose NF, monohydrate

**CERCLA/SARA 313 Emission reporting** Not Listed Not Listed **California Proposition 65** Present Australia (AICS):

Material Name: Nitroglycerin Tablets (0.4, and 0.6 mg)

Revision date: 28-Mar-2016

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Version: 3.3

version date. 25-mai-2010

## **15. REGULATORY INFORMATION**

REACH - Annex IV - Exemptions from the

Present

obligations of Register: EU EINECS/ELINCS List

Not Listed

## **16. OTHER INFORMATION**

#### Text of CLP/GHS Classification abbreviations mentioned in Section 3

Explosives-Unstable explsoives; H200 - Unstable explosive

Acute toxicity, oral-Cat.2; H300 - Fatal if swallowed

Acute toxicity, dermal-Cat.2; H310 - Fatal in contact with skin Acute toxicity, inhalation-Cat.2; H330 - Fatal if inhaled

Specific target organ toxicity, repeated exposure-Cat.2; H373 - May cause damage to organs through prolonged or repeated exposure

Hazardous to the aquatic environment, chronic toxicity-Cat.2; H411 - Toxic to aquatic life with long lasting effects

Reasons for Revision: Updated Section 2 - Hazard Identification. Updated Section 3 - Composition / Information on

Ingredients. Updated Section 16 - Other Information.

Revision date: 28-Mar-2016

Product Stewardship Hazard Communication

Prepared by: Pfizer Global Environment, Health, and Safety Operations

Pfizer Inc believes that the information contained in this Material Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

**End of Safety Data Sheet** 



# Safety Data Sheet

# OC-Auto® Sampling Bottles

Section 1 Identification		
Product name	OC-Auto® Sampling Bottles	
Catalog number	OCS1, OCS2, OCS3-KP, V-PZ25, V-PZ30	
Recommended use	Collection and storage of patient samples for use in OC-Auto testing	
Manufactured for	Polymedco Cancer Diagnostic Products, LLC.	
	510 Furnace Dock Road	
	Cortlandt Manor, NY 10567	
	www.polymedco.com	
Emergency number	(800) 431-2123 or (914) 739-5400	

Section 2 Hazards Identification	
Hazard classification	Does not present any particular physical, health, or environmental hazard
Signal word	Not applicable
Pictogram	Not applicable
Hazard statements	Not applicable
Precautionary statements	Not applicable
Any hazards not otherwise classified	Not applicable

Section 3 Composition and Information on Ingredients		
Chemical characterization	Contains no hazardous ingredients	
Chemical name	HEPES	
Synonyms	4-(2-Hydroxyethyl)piperazine-1-ethanesulfonic acid	
CAS number	7365-45-9	
Concentration	50 mM	

Section 4 First	Section 4 First Aid Measures	
IF IN EYES:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice / attention.	
IF ON SKIN:	Wash with plenty of soap and water. If skin irritation occurs: Get medical advice / attention.	
IF	Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor / physician if	
SWALLOWED:	you feel unwell.	
IF INHALED:	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor / physician.	



# Safety Data Sheet

# OC-Auto® Sampling Bottles

Section 5 Fire-Fighting Measures		
Flash point	Not applicable	
Flammable limits	Not applicable	
Auto-ignition temperature	Not applicable	
Extinguishing media	Use extinguishing media suitable for surrounding fire	
Special fire and explosion hazards	No special hazards determined	
Hazardous combustion products	No special hazards determined	
Protective equipment for	Calf contained broathing apparatus is recommended for firefighters	
firefighters	Self-contained breathing apparatus is recommended for firefighters	

Section 6 Accident Release Measures		
Personal precautions	Wear protective clothing, gloves, and eye protection.	
Emergency procedures	No special emergency procedures necessary.	
Containment procedures	Contain spill to prevent migration.	
Cleanup procedures	Use suitable absorbent material to soak up spill.	

Section 7 Handling and Storage		
Handling and storage	Avoid inhaling, swallowing, and contact with eyes and skin.	
Recommended storage conditions	2 - 30°C	
Incompatibilities	Not determined	

Section 8 Exposure Controls and Personal Protection		
Exposure limits:		
OSHA	Not determined	
ACGIH	Not determined	
Engineering controls	Normal room ventilation	
Respiratory protection	Normal room ventilation	
Eye protection	Safety glasses should be worn to prevent eye contact.	
Skin protection	Appropriate gloves and clothing should be worn to prevent skin contact.	



# Safety Data Sheet

# OC-Auto® Sampling Bottles

Section 9 Physical and Chemical Properties		
Appearance	Clear colorless liquid	
Odor	Odorless	
Odor threshold	Not determined	
рН	6.2 - 6.6	
Melting point / Freezing point	Approximately 0°C	
Initial boiling point and boiling range	Approximately 100°C	
Flash point	Not applicable	
Evaporation rate	Not determined	
Flammability (solid, gas)	Not applicable	
Upper/lower flammability or explosive limits	Not applicable	
Vapor pressure	Not determined	
Vapor density	Not determined	
Relative density	Not determined	
Solubility	Soluble in water	
Partition coefficient	Not determined	
Auto-ignition temperature	Not applicable	
Decomposition temperature	Not determined	
Viscosity	Not determined	

Section 10 Stability and Reactivity		
Stability	Stable under normal ambient temperature and pressure.	
Stabilizers needed	Not applicable	
Safety issues with change in physical	Not determined	
appearance		
Hazardous reactions	Not determined	
Hazardous polymerization	Will not polymerize	
Incompatibilities	Not determined	
Hazard decomposition products	Not determined	
Conditions to avoid	Not determined	

Section 11 Toxicological Information		
Information on likely routes and effects of exposure (short term / long term effects):		
Inhalation	None identified	
Ingestion	None identified	
Skin contact	None identified	
Eye contact	None identified	
Toxicity (LD50/LC50)	Not available	
Sensitization	Not available	
Carcinogenicity	Not available	
Reproductive Toxicity	Not available	
Teratogenicity	Not available	
Mutagenicity	Not available	



# Safety Data Sheet

# OC-Auto® Sampling Bottles

Section 12 Ecological Information		
Ecotoxicity	Not determined	
Persistence / degradability	Not determined	
Bioaccumulation potential	Not determined	
Mobility in soil (Adsorption /	Not determined	
leaching)	Not determined	
Environmental fate	Not determined	
Ozone layer depletion potential	Not determined	
Photochemical ozone creation	Not determined	
potential		
Endocrine disrupting potential	Not determined	
Global warming potential	Not determined	

Section 13 Disposal Consideration	ns
Disposal containers	Leak-proof container
Disposal methods	Dispose in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.
Properties that may affect disposal	Not applicable
Sewage disposal	Do not dispose of product into drains or sewers
Precautions for landfills or incineration	Not applicable

Section 14 Transport Information	1
UN Number	Not regulated
UN proper shipping name	Not regulated
Transport hazard class	Not regulated
Packing group	Not regulated
Environmental hazards	None identified
Guidance on transport in bulk	No special requirements
Special precautions on transport	None identified



Safety Data Sheet

# OC-Auto® Sampling Bottles

y Information
This product does not meet the definition of a hazardous material under 29 CFR
1910.2000
Listed
Not applicable
No hazards
Below threshold reporting levels
Not listed
Not listed
Not applicable

The above information is not intended to be a comprehensive listing of regulations pertinent to the product, and the regulations listed are subject to change. The user is responsible for observing all applicable local, state, and national/federal regulations in handling of the product.

Section 16 Other Inform	nation		
NFPA Ratings:		HMIS Ratings:	
Health	0	Health	0
Flammability	0	Flammability	0
Reactivity	0	Reactivity	0
Physical Hazards		Protective Equipment	В
Date of preparation	22 September 2014		
Last revision date	26 February 2015		

The information in this SDS is believed to be accurate and complete at the time of revision. No warranty, express or implied, is made, and Polymedco assumes no legal responsibility or liability from its use. The user of our products is responsible for observing any applicable laws and guidelines.



# Oxivir® TB Wipes (US) \*Virucidal • Bactericidal • Fungicidal • Tuberculocidal

Revision: 2021-03-08 Version:

Product name: Oxivir® TB Wipes (US)

\*Virucidal • Bactericidal • Fungicidal • Tuberculocidal

**SDS #**: MS0801269

Recommended use: • This product is intended to be used neat.

Uses advised against: Uses other than those identified are not recommended

Manufacturer, importer, supplier:

Emergency telephone number:

US Headquarters Diversey, Inc. 1300 Altura Rd., Suite 125 Fort Mill, SC 29708 Phone: 1-888-352-2249

SDS Internet Address: https://sds.diversey.com

Canadian Headquarters Diversey Canada, Inc. 6150 Kennedy Road Unit 3 Mississauga, Ontario L5T 2J4 Phone: 1-800-668-7171

1-800-851-7145; 1-651-917-6133 (Int'l)

## 2. HAZARDS IDENTIFICATION

## Classification for the undiluted product

This product is not classified as hazardous according to OSHA 29CFR 1910.1200 (HazCom 2012-GHS) and Canadian Hazardous Products Regulations (HPR) (WHMIS 2015-GHS).

Hazard Statements
None required.
Precautionary Statements
None required.

<u>Health hazards not otherwise classified (HHNOC)</u> - Not applicable <u>Physical hazards not otherwise classified (PHNOC)</u> - Not applicable

RTU

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Classified Ingredients

<u> </u>		
Ingredient(s)	CAS#	Weight %
Benzyl alcohol	100-51-6	1 - 5%
Hydrogen peroxide	7722-84-1	> 0.1 - < 1%

## 4. FIRST AID MEASURES

## **Undiluted Product:**

**Eyes:** Rinse with plenty of water. If irritation occurs and persists, get medical attention.

**Skin:** No specific first aid measures are required.

Oxivir® TB Wipes (US)
\*Virucidal • Bactericidal • Fungicidal •
Tuberculocidal

Inhalation: No specific first aid measures are required.

Ingestion: IF SWALLOWED: Call a Poison Center (1-800-851-7145) or doctor/physician if you feel unwell.

Most Important Symptoms/Effects: No information available.

Immediate medical attention and special treatment needed Not applicable.

### 5. FIRE-FIGHTING MEASURES

Specific methods: No special methods required

Suitable extinguishing media: The product is not flammable. Extinguish fire using agent suitable for surrounding fire.

Specific hazards: None known.

Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH

(approved or equivalent) and full protective gear.

Extinguishing media which must not be used for safety reasons: No information available.

#### **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions: Put on appropriate personal protective equipment (see Section 8.).

Environmental precautions Clean-up methods - large spillage. Absorb spill with inert material (e.g. dry sand or earth), then place in

and clean-up methods: a chemical waste container. Use a water rinse for final clean-up.

#### 7. HANDLING AND STORAGE

Handling: Avoid contact with eyes. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

Storage: Keep tightly closed in a dry, cool and well-ventilated place.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## Exposure Guidelines:

Ingredient(s)	CAS#	ACGIH	OSHA
Hydrogen peroxide	7722-84-1	1 ppm (TWA)	1 ppm (TWA)
			1.4 mg/m <sup>3</sup> (TWA)

#### **Undiluted Product:**

#### Engineering measures to reduce exposure:

Good general ventilation should be sufficient to control airborne levels.

#### Personal Protective Equipment

It is the responsibility of the employer to determine the potential risk of exposure to hazardous chemicals for employees in the workplace in order to determine the necessity, selection, and use of personal protective equipment.

Eye protection:

Hand protection:

No personal protective equipment required under normal use conditions.

No personal protective equipment required under normal use conditions.

Skin and body protection:

No personal protective equipment required under normal use conditions.

Respiratory protection:

No personal protective equipment required under normal use conditions.

No personal protective equipment required under normal use conditions.

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Evaporation Rate: No information available Odor threshold: No information available. Decomposition temperature: Not determined

Solubility: Completely Soluble

Relative Density (relative to water): 1.01 Vapor density: No information available Vapor pressure: No information available.

Partition coefficient (n-octanol/water): No information available

Elemental Phosphorus: 0.12 % by wt.

**pH**: ≈ 3

Color: Clear , Colorless Odor: Cherry Surfactant

Boiling point/range: Not determined

Autoignition temperature: No information available Solubility in other solvents: No information available

Density: 1.01 Kg/L

Bulk density: No information available Flash point (°F): > 200 °F > 93 °C

Viscosity: 0 VOC: 0 % \*

Flammability (Solid or Gas): Not applicable

Corrosion to metals: Not corrosive to metals Sustained combustion: Not applicable

Explosion limits: - upper: Not determined - lower: Not determined

\* - Title 17, California Code of Regulations, Division 3, Chapter 1, Subchapter 8.5, Article 2, Consumer Products, Sections 94508

#### 10. STABILITY AND REACTIVITY

Reactivity:
Stability:
Hazardous decomposition products:
Not Applicable
The product is stable
None reasonably foreseeable.

Materials to avoid: Do not mix with any other product or chemical unless specified in the use directions.

Conditions to avoid: None known.

### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure:

Skin contact, Inhalation, Eye contact

Delayed, immediate, or chronic effects and symptoms from short and long-term exposure

**Skin contact:** Unlikely to be irritant in normal use. **Eye contact:** May be mildly irritating to eyes.

Ingestion: No information available. Inhalation: No information available. Sensitization: No known effects. Target Organs (SE): None known Target Organs (RE): None known

## Numerical measures of toxicity

ATE - Oral (mg/kg): >5000
ATE - Dermal (mg/kg): >5000
ATE - Inhalatory, mists (mg/l): >20

### 12. ECOLOGICAL INFORMATION

Ecotoxicity: No information available.

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

### 13. DISPOSAL CONSIDERATIONS

Do not contaminate water, food, or feed by storage or disposal.

## Waste from residues / unused products (undiluted product):

This product, as sold, if discarded or disposed, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the waste solution meets RCRA criteria for hazardous waste. Dispose in compliance with all Federal, state, provincial, and local laws and regulations.

#### Pesticide Storage:

Refer to product label.

## Pesticide Disposal:

Refer to product label.

## **Container Disposal:**

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Refer to product label.

RCRA Hazard Class (undiluted product): Not Regulated.

## 14. TRANSPORT INFORMATION

DOT/TDG/IMDG: The information provided below is the full transportation classification for this product. This description does not account for the package size(s) of this product, that may fall under a quantity exception, according to the applicable transportation regulations. When shipping dangerous goods, please consult with your internal, certified hazardous materials specialist to determine if any exceptions can be applied to your shipment

DOT (Ground) Bill of Lading Description: NOT REGULATED

IMDG (Ocean) Bill of Lading Description: NOT REGULATED

### 15. REGULATORY INFORMATION

#### International Inventories at CAS# Level

All components are listed or otherwise exempt

**U.S. Regulations** 

EPA Reg. No.: 70627-60

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

KEEP OUT OF REACH OF CHILDREN. ENVIRONMENTAL HAZARDS: This product is toxic to birds, fish and aquatic invertebrates. Caution should be used when applying indoors because pets may be at risk.

#### CERCLA/ SARA

Ingredient(s)	CAS#	Weight %	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)	Section 313
Hydrogen peroxide	7722-84-1	> 0.1 - < 1%		1000	

#### Canadian Regulations

#### **16. OTHER INFORMATION**

## NFPA (National Fire Protection Association)

Rating Scale: (Low Hazard) 0 - 4 (Extreme Hazard)

Flammability 0 Instability 0 Special Hazards -

Revision: 2021-03-08

Version:

Reason for revision: Not applicable

Prepared by: North American Regulatory Affairs Additional advice: · Does not contain an added fragrance

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Oxivir® TB Wipes (US)



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2.2 : Non-flammable, non- 5.1 : Oxidizing substances toxic gases

# **Danger**





### SECTION 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Trade name** : Oxygen ; Oxygen Lazer P; Medical Oxygen; Mapcon Oxygen

**SDS Nr** : YPX097A . (Replaces EIGA097A, 23.02.2010.)

Chemical description : Oxygen

CAS No :7782-44-7 EC No :231-956-9 Index No :008-001-00-8

**Registration-No.** : Listed in Annex IV / V REACH, exempted from registration.

Chemical formula : O2

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses : Industrial and professional. Perform risk assessment prior to use.

Test gas/Calibration gas. Laboratory use. Shield gas for welding processes. Laser gas.

Plasma gas. Combustion processes. Food applications. Medical applications.

Water treatment.

Use for manufacture of electronic/photovoltaic components.

Contact supplier for more information on uses.

## 1.3. Details of the supplier of the safety data sheet

Company identification : Yara Praxair AS

Postboks 23 Haugenstua, N-0915 Oslo, NORWAY

Tel. +47 04277

E-mail: norge@yarapraxair.com

## 1.4. Emergency telephone number

Emergency telephone number : 22 59 13 00 [24 t - Giftinformasjonssentralen]

48 00 50 00 [24 t - Beredskapstelefon Yara Praxair]

Tel. +47 04277



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## **SECTION 2. Hazards identification**

## 2.1. Classification of the substance or mixture

Hazard Class and Category Code Regulation EC 1272/2008 (CLP)

: Oxidizing gases - Category 1 - Danger - (CLP : Ox. Gas 1) - H270 • Physical hazards

Gases under pressure - Compressed gas - Warning - (CLP: Press. Gas) - H280

Classification EC 67/548 or EC 1999/45

: O; R8

### 2.2. Label elements

### Labelling Regulation EC 1272/2008 (CLP)

· Hazard pictograms





· Hazard pictograms code : GHS03 - GHS04

 Signal word : Danger

 Hazard statements : H270 - May cause or intensify fire; oxidiser.

H280 - Contains gas under pressure; may explode if heated.

Precautionary statements

- Prevention : P244 - Keep valves and fittings free from oil and grease

P220 - Keep away from combustible materials.

- Response : P370+P376 - In case of fire : Stop leak if safe to do so.

: P403 - Store in a well-ventilated place. - Storage

2.3. Other hazards

: None.

### **SECTION 3.** Composition/information on ingredients

## 3.1. Substance / 3.2. Mixture

Substance.

Substance name		Contents	CAS No EC No Index No Registration no	Classification(DSD)	Classification(CLP)
Oxygen	;	100 %	7782-44-7 231-956-9 008-001-00-8	O; R8	Ox. Gas 1 (H270) Press. Gas Compressed (H280)

Contains no other components or impurities which will influence the classification of the product.

\* 1: Listed in Annex IV / V REACH, exempted from registration.

\* 2: Registration deadline not expired.

\* 3: Registration not required: Substance manufactured or imported < 1t/y.

Full text of R-phrases see section 16. Full text of H-statements see section 16.

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## **SECTION 4. First aid measures**

#### 4.1. Description of first aid measures

Inhalation
 Remove victim to uncontaminated area.
 Skin contact
 Adverse effects not expected from this product.
 Eye contact
 Adverse effects not expected from this product.
 Ingestion
 Ingestion is not considered a potential route of exposure.

#### 4.2. Most important symptoms and effects, both acute and delayed

: Continuous inhalation of concentrations higher than 75% may cause nausea, dizziness,

respiratory difficulty and convulsion.

## 4.3. Indication of any immediate medical attention and special treatment needed

: None

### **SECTION 5. Firefighting measures**

## 5.1. Extinguishing media

- Suitable extinguishing media : Water spray or fog.

- Unsuitable extinguishing media : Do not use water jet to extinguish.

#### 5.2. Special hazards arising from the substance or mixture

**Specific hazards** : Exposure to fire may cause containers to rupture/explode.

Supports combustion.

Hazardous combustion products : None.

## 5.3. Advice for fire-fighters

Specific methods : Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat

radiation may cause gas receptacles to rupture. Cool endangered receptacles with water spray jet from a protected position. Prevent water used in emergency cases from entering

sewers and drainage systems.

If possible, stop flow of product.

Use water spray or fog to knock down fire fumes if possible.

Special protective equipment for fire

fighters

Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire

fighters.

Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full

face mask.

Standard EN 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves for

firefighters.

## **SECTION 6. Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

: Try to stop release.

Ensure adequate air ventilation.

Prevent from entering sewers, basements and workpits, or any place where its accumulation

can be dangerous.

Monitor concentration of released product.

Eliminate ignition sources.

Evacuate area.

### 6.2. Environmental precautions

: Try to stop release.

## 6.3. Methods and material for containment and cleaning up

: Ventilate area.

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### SECTION 6. Accidental release measures (continued)

#### 6.4. Reference to other sections

: See also sections 8 and 13.

### **SECTION 7. Handling and storage**

#### 7.1. Precautions for safe handling

Safe use of the product

: Only experienced and properly instructed persons should handle gases under pressure. The substance must be handled in accordance with good industrial hygiene and safety procedures.

Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.

Use no oil or grease.

Do not smoke while handling product. Keep equipment free from oil and grease.

Use only oxygen approved lubricants and oxygen approved sealings.

Use only with equipment cleaned for oxygen service and rated for cylinder pressure. Ensure the complete gas system was (or is regularily) checked for leaks before use.

Consider pressure relief device(s) in gas installations.

Safe handling of the gas receptacle

Refer to supplier's container handling instructions.

Suck back of water into the container must be prevented.

Open valve slowly to avoid pressure shock. Do not allow backfeed into the container.

Protect cylinders from physical damage; do not drag, roll, slide or drop.

When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.)

designed to transport cylinders.

Leave valve protection caps in place until the container has been secured against either a wall or bench or placed in a container stand and is ready for use.

If user experiences any difficulty operating cylinder valve discontinue use and contact supplier

Never attempt to repair or modify container valves or safety relief devices.

Damaged valves should be reported immediately to the supplier.

Keep container valve outlets clean and free from contaminants particularly oil and water. Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment.

Close container valve after each use and when empty, even if still connected to equipment.

Never attempt to transfer gases from one cylinder/container to another.

Never use direct flame or electrical heating devices to raise the pressure of a container. Do not remove or deface labels provided by the supplier for the identification of the cylinder contents.

## 7.2. Conditions for safe storage, including any incompatibilities

: Keep container below 50°C in a well ventilated place.

Segregate from flammable gases and other flammable materials in store. Containers should be stored in the vertical position and properly secured to prevent toppling. Stored containers should be periodically checked for general condition and leakage. Container valve guards or caps should be in place. Store containers in location free from fire risk and away from sources of heat and ignition.

Containers should not be stored in conditions likely to encourage corrosion. Keep away from combustible materials.

#### 7.3. Specific end use(s)

: None.

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## SECTION 8. Exposure controls/personal protection

#### 8.1. Control parameters

DNEL: Derived no effect level (

Workers)

: No data available.

PNEC: Predicted no effect

concentration

: No data available.

8.2. Exposure controls

8.2.1. Appropriate engineering

: Systems under pressure shoud be regularily checked for leakages.

Avoid oxygen rich (>23,5%) atmospheres.

Gas detectors should be used when oxidising gases may be released.

Provide adequate general and local exhaust ventilation. Consider work permit system e.g. for maintenance activities.

e.g. personal protective equipment

8.2.2. Individual protection measures, : PPE compliant to the recommended EN/ISO standards should be selected.

A risk assessment should be conducted and documented in each work area to assess the risks related to the use of the product and to select the PPE that matches the relevant risk.

The following recommendations should be considered:

Wear suitable hand, body and head protection. Wear goggles with suitable filter lenses when

use is cutting/welding.

· Eye/face protection : Wear safety glasses with side shields.

Standard EN 166 - Personal eye-protection.

· Skin protection

: Wear working gloves when handling gas containers. - Hand protection

Standard EN 388 - Protective gloves against mechanical risk.

- Other : Wear safety shoes while handling containers.

Standard EN ISO 20345 - Personal protective equipment - Safety footwear. Standard EN ISO 14116 - Limited flame spread materials.

Consider the use of flame resistant safety clothing.

 Respiratory protection : None necessary. Thermal hazards : None necessary. 8.2.3. Environmental exposure : None necessary.

controls

# **SECTION 9. Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

**Appearance** 

Physical state at 20°C / 101.3kPa : Gas. Colour : Colourless.

Odour : No odour warning properties.

Odour threshold : Odour threshold is subjective and inadequate to warn for overexposure.

pH value : Not applicable.

Molar mass [g/mol] : 32 Melting point [°C] : -219 Boiling point [°C] : -183 Critical temperature [°C] : -118

: Not applicable for gases and gas-mixtures. Flash point [°C] Evaporation rate (ether=1) : Not applicable for gases and gas-mixtures.

Flammability range [vol% in air] : Non flammable.

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## SECTION 9. Physical and chemical properties (continued)

Vapour pressure [20°C] : Not applicable.

: 1.1 Relative density, gas (air=1) Relative density, liquid (water=1) : 1.1 Solubility in water [mg/l] : 39

Partition coefficient n-octanol/water [ : Not applicable for inorganic gases.

log Kow]

: Not applicable. Auto-ignition temperature [°C] Viscosity at 20°C [mPa.s] : Not applicable. **Explosive Properties** : Not applicable. **Oxidising Properties** : Oxidiser.

- Coefficient of oxygen equivalency ( : 1

9.2. Other information

Other data : Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below

ground level.

## **SECTION 10. Stability and reactivity**

10.1. Reactivity

: No reactivity hazard other than the effects described in sub-sections below.

10.2. Chemical stability

: Stable under normal conditions.

10.3. Possibility of hazardous reactions

: Violently oxidises organic material.

10.4. Conditions to avoid

: None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

: Consider the potential toxicity hazard due to the presence of chlorinated or fluorinated

polymers in high pressure (> 30 bar) oxygen lines in case of combustion.

May react violently with combustible materials. May react violently with reducing agents. Keep equipment free from oil and grease.

For additional information on compatibility refer to ISO 11114.

## 10.6. Hazardous decomposition products

: None.

## **SECTION 11. Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity : No known toxicological effects from this product.

Skin corrosion/irritation : No known effects from this product. : No known effects from this product. Serious eye damage/irritation Respiratory or skin sensitisation : No known effects from this product. : No known effects from this product. Carcinogenicity Germ cell mutagenicity : No known effects from this product.

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Oxygen

YPX097A

## SECTION 11. Toxicological information (continued)

: No known effects from this product. Reproductive toxicity : No known effects from this product. STOT-single exposure : No known effects from this product. STOT-repeated exposure **Aspiration hazard** : Not applicable for gases and gas-mixtures.

## **SECTION 12. Ecological information**

12.1. Toxicity

: No ecological damage caused by this product.

12.2. Persistence and degradability

: No ecological damage caused by this product.

12.3. Bioaccumulative potential

: No ecological damage caused by this product.

12.4. Mobility in soil

: No ecological damage caused by this product.

12.5. Results of PBT and vPvB assessment

: Not classified as PBT or vPvB.

12.6. Other adverse effects

Effect on ozone layer : None.

Effect on the global warming : No known effects from this product.

## **SECTION 13. Disposal considerations**

## 13.1. Waste treatment methods

: May be vented to atmosphere in a well ventilated place.

Do not discharge into any place where its accumulation could be dangerous.

Refer to the EIGA code of practice Doc.30 "Disposal of Gases"", downloadable at http://www.

eiga.org for more guidance on suitable disposal methods.

List of hazardous waste codes (from Commission Decision 2001/118/EC)

: 16 05 04: Gases in pressure containers (including halons) containing dangerous substances.

13.2. Additional information

· None

## **SECTION 14. Transport information**

**UN** number : 1072

Labelling ADR, IMDG, IATA





: 5.1 : Oxidizing substances

2.2 : Non-flammable, non-toxic gases

Land transport (ADR/RID)

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Oxygen

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## **SECTION 14. Transport information (continued)**

: 25 H.I. nr

: OXYGEN, COMPRESSED UN proper shipping name

Transport hazard class(es) : 2 Classification code : 10 Packing group : -: P200 Packing Instruction(s)

: E : Passage forbidden through tunnels of category E. **Tunnel Restriction** 

**Environmental hazards** : None.

Sea transport (IMDG)

Proper shipping name : OXYGEN, COMPRESSED

Class : 2.2 Emergency Schedule (EmS) - Fire : F-C Emergency Schedule (EmS) - Spillage : S-W : P200 **Packing instruction IMDG-Marine** pollutant : No

Air transport (ICAO-TI / IATA-DGR)

Proper shipping name (IATA) : OXYGEN, COMPRESSED

: 2.2 Class

: Allowed. **Passenger and Cargo Aircraft** Packing instruction - Passenger and : 200

Cargo Aircraft

Cargo Aircraft only : Allowed. Packing instruction - Cargo Aircraft : 200

only

Special precautions for user

: Avoid transport on vehicles where the load space is not separated from the driver's

compartment.

Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the

event of an accident or an emergency. Before transporting product containers: - Ensure that containers are firmly secured.

- Ensure cylinder valve is closed and not leaking.

- Ensure valve outlet cap nut or plug (where provided) is correctly fitted.

- Ensure valve protection device (where provided) is correctly fitted.

- Ensure there is adequate ventilation.

Transport in bulk according to Annex : Not applicable. II of MARPOL 73/78 and the IBC Code

### **SECTION 15. Regulatory information**

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

## **EU** legislation

Restrictions on use : None. Seveso directive 96/82/EC : Listed.

**National legislation** 

**National legislation** : Ensure all national/local regulations are observed.

### 15.2. Chemical safety assessment

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## **SECTION 15. Regulatory information (continued)**

: A CSA does not need to be carried out for this product.

## **SECTION 16. Other information**

Indication of changes : Revised safety data sheet in accordance with commisssion regulation (EU) No 453/2010.

Training advice : Ensure operators understand the hazard of oxygen enrichment.

List of full text of R-phrases in section: R8: Contact with combustible material may cause fire.

3.

**List of full text of H-statements in** : H270 - May cause or intensify fire; oxidiser.

section 3. H280 - Contains gas under pressure; may explode if heated.

Further information : This Safety Data Sheet has been established in accordance with the applicable European

Union legislation.

**DISCLAIMER OF LIABILITY** : Before using this product in any new process or experiment, a thorough material compatibility

and safety study should be carried out.

Details given in this document are believed to be correct at the time of going to press. Whilst proper care has been taken in the preparation of this document, no liability for injury or

damage resulting from its use can be accepted.

**End of document** 

Tel. +47 04277





PRODUCT NAME: PNEUMOVAX™ 23 Page: 1/6

Revision 1-Apr-2010

## 1. Product and Company Identification

Manufactured/Supplied by Merck Sharp & Dohme Corp.

A wholly owned subsidary of Merck & Co., Inc.

One Merck Drive

Whitehouse Station, NJ 08889-0100 (908) 423-1000 (General Information Only)

**Emergency Telephone Number:** 

1-908-423-6000 (24/7/365) English Only

<u>Label Name</u> PNEUMOVAX™ 23

<u>Chemical Name</u> Pneumococcal vaccine polyvalent

<u>Synonyms</u> Not available

Material Product Number 4739 - One 5-dose vial of liquid vaccine.

4943 - Single-dose vial of liquid vaccine in a box of 10 single-dose

vials.

**NDC** 0006-4739-00 **NDC** 0006-4943-00

Intended Use Vaccine indicated for vaccination against pneumococcal disease

caused by those pneumococcal types included in the vaccine.

## 2. Composition/Information on Ingredients

Component	Molecular Formula	Molecular weight	CAS Number	Percent (%)
Pneumococcal Types 1, 2, 3, 4, 5, 6B, 7F, 8, 9N, 9V, 10A, 11A, 12F, 14, 15B, 17F, 18C, 19A, 19F, 20, 22F, 23F	Not available	Not available	Not available	<1
Inactive ingredients		Not available		99

## EC Label Not classified.

### 3. Hazards Identification

<u>Appearance</u> Clear, colorless solution

<u>Label Text</u> CAUTION! VACCINE

Emergency Overview No specific hazard with intact vials.

Avoid contact with eyes, skin and clothing. Wash thoroughly after

handling.

<u>Potential Health Effects</u> See Section 11 for detailed information.

\*\*\* Continued on next page \*\*\*

Product name PNEUMOVAX™ 23 Page: 2/6

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### 4. First Aid Measures

Eye Contact None required with normal handling of finished product.

In case of contact with eyes, rinse immediately with plenty of

water.Get medical attention if symptoms occur.

Skin Contact None required with normal handling of finished product.

Wash with soap and water. Get medical attention if irritation

occurs.

<u>Inhalation</u> None required with normal handling of finished product.

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical

attention if symptoms occur.

Ingestion None required with normal handling of finished product.

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious

person. Get medical attention.

Notes to physician Treat supportively and symptomatically.

For additional guidance refer to the current prescribing information

or the local poison control center.

## 5. Fire Fighting Measures

Not applicable Flash Point Flammable Limits (% in air) Not applicable **Autoignition Temperature** Not available Not available Oxidizing Properties Combustibility Information Not available **Dust Explosivity Information** Not applicable **Shock Sensitivity** Not applicable Fire/Explosion Hazards None known.

<u>Special Fire Procedures</u> No special procedures.

Extinguishing Media In case of fire, use water spray (fog), foam, dry chemical, or CO 2.

Hazardous Decomposition Products None known.

### 6. Accidental Release Measures

Personal Precautions See Section 8 for Personal Protective EquipmenContact

emergency personnel. Keep unnecessary personnel away.

Follow all fire fighting procedures (Section 5).

Product name PNEUMOVAX™ 23 Page: 3/6

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Methods for cleaning up Contain spilled material. For small spills add absorbent (soil

may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Minimize contact of spilled material with soils to prevent runoff to surface waterways. See Section 13 for Waste Disposal Information

7. Handling and Storage

<u>Handling</u> Avoid contact with eyes, skin and clothing. Wash thoroughly after

handling.

Storage Keep container tightly closed. Store vials at 2-8°C (35.6-46.4°F)

## 8. Exposure Controls/Personal Protection

**Exposure Guidelines** 

<u>Component</u> OSHA Permissible ACGIH Threshold <u>Merck Exposure Control</u>

Exposure Limit Limit Value Limit (ECL)

(PEL) (TLV) or PB-ECL Category

Pneumococcal Types 1, 2, 3, Not established Not established 10 ug/m<sup>3</sup> 4, 5, 6B, 7F, 8, 9N, 9V, 10A, (8-hr TWA)

11A, 12F, 14, 15B, 17F, 18C, 19A, 19F, 20, 22F, 23F

Inactive ingredients Not available Not available Not established

ADI = 100 ug/day

Wipe Test Criteria = 100 ug/cm<sup>2</sup>

#### **Engineering Controls**

Adequate ventilation should be provided if there is risk of aerosol formation.

#### **Personal Protective Equipment**

<u>Eye/Face Protection</u> None required when handling sealed vials.

Safety glasses with side shields should be worn when handling

bulk liquid formulation or filling vials.

Skin Protection None required when handling sealed vials.

Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable

suits) to avoid exposed skin surfaces.

Respiratory Protection No respiratory protection required when handling bulk liquid

formulation or sealed vials.

As an adjunct to engineering controls, use an approved, properly fitted, powered air purifying respirator, or respirator of equivalent or greater protection if the potential exists for exposure to airborne

aerosols.

<u>Additional Protective Equipment</u> Work uniform or laboratory coat.

Product name PNEUMOVAX™ 23 Page: 4/6

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## 9. Physical and Chemical Properties

<u>Appearance</u> Clear, colorless solution

Odor/Threshold Limit Not available Not available рΗ Not available **Boiling Point** Melting Point Not available Flash point Not applicable Flammable Limits (% in air) Not applicable **Autoignition Temperature** Not available Solubility Not available **Partition Coefficient** Not available Specific Gravity Not available Not available Vapor Density Vapor Pressure Not available Volatility Component Not available

## 10. Stability and Reactivity

StabilityNot availableConditions to AvoidNot availableIncompatibilityNot availableHazardous PolymerizationNot availableHazardous Decomposition ProductsNone known.

## 11. Toxicological Information

Routes of Entry Ingestion: No.

Inhalation: Yes Skin Contact: No.

**Toxicity Data** 

ComponentTestSpeciesRouteResultPneumococcal TypesNot availableNot availableNot available

1, 2, 3, 4, 5, 6B, 7F, 8, 9N, 9V, 10A, 11A, 12F,

14, 15B, 17F, 18C, 19A,

19F, 20, 22F, 23F

Inactive ingredients Not available Not available Not available

### Effects of Acute Exposure

Eye contact Non-irritating to the eyes.

Skin contactNot availableInhalationNot availableIngestionNot available

Product name PNEUMOVAX™ 23 Page: 5/6

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<u>Effects of Chronic Exposure</u> Mutagenicity, carcinogenicity, developmental and reproductive

toxicity studies have not been conducted with PNEUMOVAX 23. Repeat-dose, developmental, reproductive and genotoxicity

studies have not yet been performed.

The most common adverse experiences reported in clinical trials were local reactions at the injection site (including soreness, warmth, erythema, swelling, and induration) and fever (<102°F). In postmarketing experience, injection-site cellulitis-like reactions were reported rarely. Caution and appropriate care should be exercised in administering PNEUMOVAX 23 to individuals with severely compromised cardiovascular and/or pulmonary function in whom a systemic reaction would pose a significant risk.

<u>Carcinogen Designation</u> Not listed as a carcinogen by OSHA, NTP or IARC.

Medical Conditions Aggravated by

Overexposure:

Not available

## 12. Ecological Information

Environmental Effects Not available

**Ecotoxicity Data** 

ComponentSpeciesPeriodResultPneumococcal TypesNot availableNot availableNot available

1, 2, 3, 4, 5, 6B, 7F, 8, 9N, 9V, 10A, 11A, 12F, 14, 15B, 17F, 18C, 19A,

19F, 20, 22F, 23F

Inactive ingredients Not available Not available Not available

Environmental Fate Not available

## 13. Disposal Considerations

Waste Disposal Information Avoid contact of spilled material and runoff with soil and surface

waterways. Dispose of or treat all spills residues including

contaminated soils following all federal, state, or local regulations.

## 14. Transport Information

Shipping Description

U.S. DOTIATA/ICAOIMOADR/RIDNot regulated.Not regulated.Not regulated.

Product name PNEUMOVAX™ 23 Page: 6/6

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## 15. Regulatory Information

<u>U.S. Federal Regulations</u>
Hazardous per OSHA Hazard Communication Standard criteria

(29 CFR 1910.1200).

State Regulations Not available

International Regulations Not classified as Dangerous according to the Dangerous

Substances Directive (DSD).

## 16. Other Information

**Revisions: Material Product Number** 

 Revision:
 4/1/2010.

 Date of Preparation
 10-Apr-2007

 Date of Previous Issue
 10-Apr-2007

 Validation Date
 4/1/2010.

MSDS Coordinator: 1-908-423-7903

Merck Sharp & Dohme Corp.

A wholly owned subsidary of Merck & Co., Inc.

One Merck Drive

Whitehouse Station, NJ 08889-0100

### Disclaimer:

While this information and recommendations set forth are believed to be accurate as of the date hereof, MERCK & CO, INC. makes no warranty with respect hereto and disclaims all liability from reliance thereon.



## **Promethazine HCI Injection, USP**

## **Section 1. Identification**

GHS product identifier : Promethazine HCl Injection, USP

Synonyms : Phenergan® (Promethazine HCI) Injection

Product code : Not available.

Chemical family : Anticholinergic Agent. Antihistaminic Agent. Antiemetic. Sedative.

**Product type** : Regulated prescription drug.

**Container information** : 1 mL vials or ampuls.

Identified uses : Pharmaceutical.

**Supplier's details**: Hikma Pharmaceuticals USA Inc.

246 Industrial Way West

Eatontown, New Jersey (NJ) 07724

Emergency telephone number (with hours of

operation)

: CHEMTREC, U.S.: 1-800-424-9300 International: +1-703-527-3887

24/7

## Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Classification of the : SKIN SENSITIZATION - Category 1

substance or mixture AQUATIC HAZARD (LONG-TERM) - Category 3

**GHS label elements** 

Hazard pictograms



Signal word : Warning

**Hazard statements** : May cause an allergic skin reaction.

Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

General: Read label before use. Keep out of reach of children. If medical advice is needed,

have product container or label at hand.

**Prevention**: Wear protective gloves. Avoid release to the environment. Avoid breathing vapor.

Contaminated work clothing should not be allowed out of the workplace.

Response : IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before

reuse. If skin irritation or rash occurs: Get medical attention.

Storage : Not applicable.



Promethazine HCI Injection, USP

## Section 2. Hazards identification

**Disposal** 

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified

: None known.

## Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Phenergan® (Promethazine HCI) Injection

## **CAS** number/other identifiers

CAS number : Not applicable.

Product code : Not available.

Ingredient name	%	CAS number
Water	60 - 100	7732-18-5
Promethazine hydrochloride	1 - 5	58-33-3
Phenol	0.1 - 1	108-95-2
Disodium dihydrogen ethylenediaminetetraacetate	0 - 0.1	139-33-3
Sodium metabisulphite	0 - 0.1	7681-57-4
Calcium chloride	0 - 0.1	10043-52-4

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

## **Description of necessary first aid measures**

**Eye contact** 

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention if irritation occurs.

**Inhalation** 

: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Skin contact** 

: Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.





## Section 4. First aid measures

Ingestion

: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### Most important symptoms/effects, acute and delayed

## Potential acute health effects

**Eye contact**: No known significant effects or critical hazards.

**Inhalation** : Exposure to decomposition products may cause a health hazard. Serious effects may

be delayed following exposure.

**Skin contact** : May cause an allergic skin reaction.

**Ingestion** : No known significant effects or critical hazards.

## Over-exposure signs/symptoms

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Adverse symptoms may include the following:

irritation redness

**Ingestion** : No known significant effects or critical hazards.

### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash

contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### **Extinguishing media**

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing : None

media

: None known.

Specific hazards arising from the chemical

: This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being

discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides Sulfur oxides

halogenated compounds



Promethazine HCI Injection, USP

## Section 5. Fire-fighting measures

**Special protective actions** for fire-fighters

: No special measures are required.

**Special protective** equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

## Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

## Methods and materials for containment and cleaning up

**Spill** 

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, : including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.





## Section 8. Exposure controls/personal protection

### **Control parameters**

Occupational exposure limits

None.

Appropriate engineering controls

**Environmental exposure** controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

#### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

### **Skin protection**

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** 

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

# Section 9. Physical and chemical properties

#### **Appearance**

Physical state : Liquid. [Aqueous solution.]

Color Colorless. Odor Not available. **Odor threshold** : Not available. pH : 4 to 5.5 **Melting point** Not available. **Boiling point** : Not available. Flash point : Not available. **Evaporation rate** : Not available.



Promethazine HCI Injection, USP

## Section 9. Physical and chemical properties

Flammability (solid, gas)

Lower and upper explosive

(flammable) limits

: Not available. : Not available.

Vapor pressure : Not available. Vapor density : Not available. : Not available. **Relative density** : Not available. Solubility

Partition coefficient: n-

octanol/water

: Not available.

**Auto-ignition temperature** : Not available. **Decomposition temperature**: Not available. **Viscosity** : Not available.

## Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

**Possibility of hazardous** reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

**Incompatible materials** : Reactive or incompatible with the following materials: oxidizing materials, acids and

**Hazardous decomposition** products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **Section 11. Toxicological information**

## Information on toxicological effects

#### **Acute toxicity**

There is no data available.

## **Irritation/Corrosion**

There is no data available.

## **Sensitization**

There is no data available.

## Carcinogenicity

There is no data available.

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Promethazine hydrochloride	Category 3	Not applicable.	Respiratory tract irritation

## Specific target organ toxicity (repeated exposure)

There is no data available.

#### **Aspiration hazard**

There is no data available.



## **Section 11. Toxicological information**

Information on the likely

routes of exposure

: Dermal contact. Eye contact. Ingestion.

#### Potential acute health effects

**Eye contact**: No known significant effects or critical hazards.

**Inhalation** : Exposure to decomposition products may cause a health hazard. Serious effects may

be delayed following exposure.

**Skin contact**: May cause an allergic skin reaction.

**Ingestion**: No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 No known significant effects or critical hazards.
 Adverse symptoms may include the following:

irritation redness

**Ingestion** : No known significant effects or critical hazards.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

#### **Short term exposure**

Potential immediate

effects

: No known significant effects or critical hazards.

**Potential delayed effects**: No known significant effects or critical hazards.

**Long term exposure** 

**Potential immediate** 

effects

: No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

#### Potential chronic health effects

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to

very low levels.

Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Route	ATE value
Oral	13333.3 mg/kg
Inhalation (vapors)	293.3 mg/L



## **Section 12. Ecological information**

There is no data available.

#### Persistence and degradability

There is no data available.

#### **Bioaccumulative potential**

There is no data available.

**Mobility in soil** 

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## **Section 14. Transport information**

	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

**AERG**: Not applicable.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.



## **Section 14. Transport information**

Transport in bulk according : Not available.

to Annex II of MARPOL 73/78 and the IBC Code

## Section 15. Regulatory information

U.S. Federal regulations : TSCA 8(a) PAIR: Sodium Metabisulphite

: Not listed

: Not listed

: Not listed

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted.

Clean Water Act (CWA) 307: Phenol Clean Water Act (CWA) 311: Phenol

**Clean Air Act Section 112** 

(b) Hazardous Air **Pollutants (HAPs)** 

Clean Air Act Section 602

**Class I Substances** 

Clean Air Act Section 602

**Class II Substances** 

**DEA List I Chemicals** (Precursor Chemicals)

**DEA List II Chemicals** (Essential Chemicals) : Not listed

: Not listed

#### **SARA 302/304**

#### **Composition/information on ingredients**

			SARA 302 TPQ		SARA 304 RQ	
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
Phenol	0.1 - 1	Yes.	-	-	-	-

**SARA 304 RQ** : Not applicable.

**SARA 311/312** 

#### **Composition/information on ingredients**

Name	%	hazard	Sudden release of pressure		(acute) health	Delayed (chronic) health hazard
Promethazine hydrochloride	1 - 5	No.	No.	No.	Yes.	No.

### **State regulations**

**Massachusetts** : None of the components are listed. **New York** : None of the components are listed. **New Jersey** : None of the components are listed. **Pennsylvania** : None of the components are listed.

California Prop. 65

No products were found. **International regulations** 



## **Section 15. Regulatory information**

**International lists** 

: Australia inventory (AICS): All components are listed or exempted.

China inventory (IECSC): Not determined.

Japan inventory: All components are listed or exempted. Korea inventory: All components are listed or exempted. Malaysia Inventory (EHS Register): Not determined.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or

Philippines inventory (PICCS): Not determined. Taiwan inventory (CSNN): Not determined.

**Chemical Weapons** 

**Convention List Schedule** 

**I Chemicals** 

**Chemical Weapons Convention List Schedule** 

: Not listed

: Not listed

**II Chemicals** 

**Chemical Weapons Convention List Schedule** 

**III Chemicals** 

: Not listed

## **Section 16. Other information**

#### **History**

Revision date mm/dd/yyyy : 12/15/2018

Version

Prepared by : KMK Regulatory Services Inc. Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



## PURELL® Advanced Hand Sanitizer E3 Rated Gel

Version Revision Date: MSDS Number: Date of last issue: 12/19/2014 1.3 02/10/2015 36432-00004 Date of first issue: 12/11/2014

#### **SECTION 1. IDENTIFICATION**

Product name : PURELL® Advanced Hand Sanitizer E3 Rated Gel

Manufacturer or supplier's details

Company name of supplier GOJO Industries, Inc.

Address One GOJO Plaza, Suite 500

Akron OH 44311

Telephone 1 (330) 255-6000

Emergency telephone 1-800-424-9300 CHEMTREC

Recommended use of the chemical and restrictions on use

Recommended use Hand Sanitizer

Restrictions on use This is a personal care or cosmetic product that is safe for

consumers and other users under normal and reasonably foreseeable use. Cosmetics and consumer products, specifically defined by regulations around the world, are exempt from the requirement of an SDS for the consumer. While this material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product for industrial workplace conditions as well as unusual and unintended exposures such as large spills. This SDS should be retained and available for employees and other users of this product. For specific intended-use guidance, please refer to the information

provided on the package or instruction sheet.

#### **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

Flammable liquids : Category 3

Eye irritation Category 2A

**GHS Label element** 

Hazard pictograms





Signal Word Warning

**Hazard Statements** : H226 Flammable liquid and vapor.



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H319 Causes serious eye irritation.

Precautionary Statements : Prevention:

P210 Keep away from heat/sparks/open flames/hot surfaces. -

No smoking.

P233 Keep container tightly closed.

P241 Use explosion-proof electrical/ ventilating/ lighting/

equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately

all contaminated clothing. Rinse skin with water/shower. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water

for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/

attention. Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

#### Other hazards

Vapors may form explosive mixture with air.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

#### **Hazardous ingredients**

Chemical Name	CAS-No.	Concentration (%)
Ethanol	64-17-5	>= 50 - < 70
Propan-2-ol	67-63-0	>= 1 - < 5

#### **SECTION 4. FIRST AID MEASURES**

General advice : In the case of accident or if you feel unwell, seek medical

advice immediately.

When symptoms persist or in all cases of doubt seek medical

advice.

If inhaled : If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

In case of skin contact : Wash with water and soap as a precaution.

Get medical attention if symptoms occur.



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In case of eye contact : In case of contact, immediately flush eyes with plenty of water

for at least 15 minutes.

If easy to do, remove contact lens, if worn.

Get medical attention.

If swallowed, DO NOT induce vomiting.

Get medical attention if symptoms occur. Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and

delayed

: Causes serious eye irritation.

Protection of first-aiders : First Aid responders should pay attention to self-protection,

and use the recommended personal protective equipment

when the potential for exposure exists.

Notes to physician : Treat symptomatically and supportively.

#### **SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Water spray

Alcohol-resistant foam

Dry chemical

Carbon dioxide (CO2)

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during fire

fighting

: Do not use a solid water stream as it may scatter and spread

fire

Flash back possible over considerable distance. Vapors may form explosive mixtures with air.

Exposure to combustion products may be a hazard to health.

Hazardous combustion prod-

ucts

: Carbon oxides

Specific extinguishing

methods

: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.
Use water spray to cool unopened containers.

Remove undamaged containers from fire area if it is safe to do

SO.

Evacuate area.

Special protective equipment

for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, : Remove all sources of ignition.



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protective equipment and Use pe emergency procedures Follow

Use personal protective equipment.

Follow safe handling advice and personal protective

equipment recommendations.

Environmental precautions : Discharge into the environment must be avoided.

Prevent further leakage or spillage if safe to do so.

Prevent spreading over a wide area (e.g. by containment or oil

barriers).

Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

: Non-sparking tools should be used.

Soak up with inert absorbent material.

Suppress (knock down) gases/vapors/mists with a water spray

jet.

For large spills, provide diking or other appropriate

containment to keep material from spreading. If diked material

can be pumped, store recovered material in appropriate

container.

Clean up remaining materials from spill with suitable

absorbent.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items

employed in the cleanup of releases. You will need to

determine which regulations are applicable.

Sections 13 and 15 of this SDS provide information regarding

certain local or national requirements.

#### **SECTION 7. HANDLING AND STORAGE**

Technical measures : See Engineering measures under EXPOSURE

CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : Use with local exhaust ventilation.

Use only in an area equipped with explosion proof exhaust

ventilation.

Advice on safe handling : Do not breathe vapors or spray mist.

Do not swallow. Do not get in eyes.

Avoid prolonged or repeated contact with skin.

Handle in accordance with good industrial hygiene and safety

practice.

Non-sparking tools should be used. Keep container tightly closed.

Keep away from heat and sources of ignition.

Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the

environment.

Conditions for safe storage : Keep in properly labeled containers.

Keep tightly closed.



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Keep in a cool, well-ventilated place.

Store in accordance with the particular national regulations.

Keep away from heat and sources of ignition.

Materials to avoid : Do not store with the following product types:

Strong oxidizing agents Organic peroxides Flammable solids Pyrophoric liquids Pyrophoric solids

Self-heating substances and mixtures

Substances and mixtures which in contact with water emit

flammable gases Explosives Gases

#### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ethanol	64-17-5	TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z-1
		STEL	1,000 ppm	ACGIH
Propan-2-ol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm 980 mg/m3	NIOSH REL
		ST	500 ppm 1,225 mg/m3	NIOSH REL
		TWA	400 ppm 980 mg/m3	OSHA Z-1

#### **Biological occupational exposure limits**

Ingredients	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentratio n	Basis
Propan-2-ol	67-63-0	Acetone	Urine	End of shift at end of work- week	40 mg/l	ACGIH BEI

**Engineering measures** 

Minimize workplace exposure concentrations.

Use only in an area equipped with explosion proof exhaust

ventilation.

Use with local exhaust ventilation.



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### Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to

maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided

by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other

circumstance where air purifying respirators may not provide

adequate protection.

Hand protection

Material : Impervious gloves

Material : Flame retardant gloves

Remarks : Choose gloves to protect hands against chemicals depending

on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before

breaks and at the end of workday.

Eye protection : Wear the following personal protective equipment:

Safety goggles

Skin and body protection : Select appropriate protective clothing based on chemical

resistance data and an assessment of the local exposure

potential.

Wear the following personal protective equipment:

Flame retardant antistatic protective clothing.

Skin contact must be avoided by using impervious protective

clothing (gloves, aprons, boots, etc).

Hygiene measures : Ensure that eye flushing systems and safety showers are

located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Color : clear

Odor : alcohol-like



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Odor Threshold : No data available

pH : 6.5 - 8.5

Melting point/freezing point : No data available

Initial boiling point and boiling

range

: No data available

Flash point : 24 °C

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapor pressure : No data available

Relative vapor density : No data available

Density : 0.88 g/cm3

Solubility(ies)

Water solubility : soluble

Partition coefficient: n-

octanol/water

: Not applicable

Autoignition temperature : No data available

Decomposition temperature : The substance or mixture is not classified self-reactive.

Viscosity

Viscosity, kinematic : 6,000 - 17,000 mm2/s (20 °C)

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reac-

tions

Flammable liquid and vapor.

Vapors may form explosive mixture with air.
Can react with strong oxidizing agents.



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Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Oxidizing agents

Hazardous decomposition

products

: No hazardous decomposition products are known.

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

#### **Acute toxicity**

Not classified based on available information.

**Product:** 

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

Ingredients:

Ethanol:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 124.7 mg/l

Exposure time: 4 h
Test atmosphere: vapor

Propan-2-ol:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 72.6 mg/l

Exposure time: 4 h
Test atmosphere: vapor

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg

#### Skin corrosion/irritation

Not classified based on available information.

**Product:** 

Result: No skin irritation

### **Ingredients:**

Ethanol:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation



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Propan-2-ol: Species: Rabbit

Result: No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Ingredients:
Ethanol:
Species: Rabbit

Result: Irritation to eyes, reversing within 21 days

Method: OECD Test Guideline 405

**Propan-2-ol:** Species: Rabbit

Result: Irritation to eyes, reversing within 21 days

Respiratory or skin sensitization

Skin sensitization: Not classified based on available information. Respiratory sensitization: Not classified based on available information.

**Product:** 

Assessment: Does not cause skin sensitization.

**Ingredients:** 

Ethanol:

Test Type: Local lymph node assay (LLNA)

Routes of exposure: Skin contact

Species: Mouse Result: negative

Propan-2-ol:

Test Type: Buehler Test

Routes of exposure: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: negative

Germ cell mutagenicity

Not classified based on available information.

**Ingredients:** 

Ethanol:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test

Result: negative

Genotoxicity in vivo : Test Type: Rodent dominant lethal test (germ cell) (in vivo)

Species: Mouse

Application Route: Ingestion

Result: negative



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Propan-2-ol:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay) Species: Mouse

Application Route: Intraperitoneal injection

Result: negative

Carcinogenicity

Not classified based on available information.

Ingredients: Propan-2-ol:

Species: Rat

Application Route: inhalation (vapor)

Exposure time: 104 weeks

Method: OECD Test Guideline 451

Result: negative

IARC No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

**OSHA**No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential carcino-

gen by OSHA.

NTP No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

Reproductive toxicity

Not classified based on available information.

Ingredients:

Ethanol:

Effects on fertility : Test Type: Two-generation reproduction toxicity study

Species: Mouse

Application Route: Ingestion Method: OECD Test Guideline 416

Result: negative

Propan-2-ol:

Effects on fertility : Test Type: Two-generation reproduction toxicity study

Species: Rat

Application Route: Ingestion

Result: negative

Effects on fetal development : Test Type: Embryo-fetal development

Species: Rat

Application Route: Ingestion



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Result: negative

#### STOT-single exposure

Not classified based on available information.

Ingredients: Propan-2-ol:

Assessment: May cause drowsiness or dizziness.

#### STOT-repeated exposure

Not classified based on available information.

#### Repeated dose toxicity

#### **Ingredients:**

Ethanol: Species: Rat

NOAEL: 2,400 mg/kg Application Route: Ingestion

Exposure time: 2 y

Propan-2-ol: Species: Rat NOAEL: 5000 ppm

Application Route: inhalation (vapor)

Exposure time: 104 w

Method: OECD Test Guideline 413

#### **Aspiration toxicity**

Not classified based on available information.

#### **SECTION 12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

### **Ingredients:**

Ethanol:

: LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l Toxicity to fish

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l

Exposure time: 48 h

: EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l Toxicity to algae

Exposure time: 72 h

Method: OECD Test Guideline 201

aquatic invertebrates (Chronic toxicity)

Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 9.6 mg/l

Exposure time: 9 d



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Toxicity to bacteria : EC50 (Photobacterium phosphoreum): 32.1 mg/l

Exposure time: 0.25 h

Propan-2-ol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 10,000 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 10,000 mg/l

Exposure time: 24 h

Toxicity to algae : ErC50 (Scenedesmus quadricauda (Green algae)): > 1,800

mg/l

Exposure time: 8 d

Toxicity to bacteria : EC50 (Pseudomonas putida): > 1,050 mg/l

Exposure time: 16 h

#### Persistence and degradability

Ingredients:

Ethanol:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 84 % Exposure time: 20 d

Propan-2-ol:

Biodegradability : Result: rapidly degradable

Bioaccumulative potential

Ingredients:

Ethanol:

Partition coefficient: n-

octanol/water

: log Pow: -0.35

Propan-2-ol:

Partition coefficient: n-

octanol/water

: log Pow: 0.05

Mobility in soil

No data available

Other adverse effects

No data available

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Dispose of as unused product.



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Empty containers should be taken to an approved waste

handling site for recycling or disposal.

Do not burn, or use a cutting torch on, the empty drum.

#### **SECTION 14. TRANSPORT INFORMATION**

#### **International Regulation**

**UNRTDG** 

UN number : UN 1987

Proper shipping name : ALCOHOLS, N.O.S.

(Ethanol, Propan-2-ol)

Class : 3
Packing group : III
Labels : 3

**IATA-DGR** 

UN/ID No. : UN 1987
Proper shipping name : Alcohols, n.o.s.

(Ethanol, Propan-2-ol)

366

Class : 3 Packing group : III

Labels : Flammable Liquids

Packing instruction (cargo

aircraft)

Packing instruction : 355

(passenger aircraft)

**IMDG-Code** 

UN number : UN 1987

 $Proper \ shipping \ name \\ \hspace{2cm} : \ ALCOHOLS, \ N.O.S.$ 

(Ethanol, Propan-2-ol)

Class : 3
Packing group : III
Labels : 3
EmS Code : F-E, S-D
Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### **Domestic regulation**

**49 CFR** 

UN/ID/NA number : UN 1987

Proper shipping name : ALCOHOLS, N.O.S.

Class : 3 Packing group : III

Labels : FLAMMABLE LIQUID

ERG Code : 127



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Marine pollutant : no

#### **SECTION 15. REGULATORY INFORMATION**

#### **EPCRA - Emergency Planning and Community Right-to-Know**

#### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Fire Hazard

Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels

established by SARA Title III, Section 313:

Propan-2-ol 67-63-0 3.4086 %

#### **US State Regulations**

Pennsylvania Right To Know

 Ethanol
 64-17-5
 50 - 70 %

 Water
 7732-18-5
 30 - 50 %

 Propan-2-ol
 67-63-0
 1 - 5 %

**New Jersey Right To Know** 

 Ethanol
 64-17-5
 50 - 70 %

 Water
 7732-18-5
 30 - 50 %

 Propan-2-ol
 67-63-0
 1 - 5 %

California Prop 65 This product does not contain any chemicals known to the

State of California to cause cancer, birth, or any other

reproductive defects.

#### The ingredients of this product are reported in the following inventories:

AICS : All ingredients listed or exempt.

#### Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), NECSI (Taiwan), TSCA (USA)



# PURELL® Advanced Hand Sanitizer E3 Rated Gel

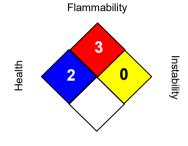
 Version
 Revision Date:
 MSDS Number:
 Date of last issue: 12/19/2014

 1.3
 02/10/2015
 36432-00004
 Date of first issue: 12/11/2014

#### **SECTION 16. OTHER INFORMATION**

#### **Further information**

## NFPA:



Special hazard.

#### HMIS III:



0 = not significant, 1 =Slight, 2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

#### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)
NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

ACGIH / TWA : 8-hour, time-weighted average ACGIH / STEL : Short-term exposure limit

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour

workday during a 40-hour workweek

NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded

at any time during a workday

OSHA Z-1 / TWA : 8-hour time weighted average

Sources of key data used to compile the Material Safety

Data Sheet

: Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-

cy, http://echa.europa.eu/

Revision Date : 02/10/2015

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

US / Z8



#### 1. Identification

Product identifier Safetec® Triple Antibiotic Ointment

Other means of identificationNot available.Recommended useNot available.Recommended restrictionsNone known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Manufacturer: Safetec of America, Inc.

887 Kensington Avenue

Buffalo, NY 14215

Company Telephone: 1-716-895-1822
E-mail Address: www.safetec.com
Emergency Telephone: 1-800-255-3924
Supplier Refer to Manufacturer

#### 2. Hazard(s) identification

Physical hazards
This mixture does not meet the classification criteria according to OSHA HazCom 2012.

Health hazards
This mixture does not meet the classification criteria according to OSHA HazCom 2012.

Environmental hazards
This mixture does not meet the classification criteria according to OSHA HazCom 2012.

OSHA defined hazards
This mixture does not meet the classification criteria according to OSHA HazCom 2012.

Label elements

Hazard symbol None.
Signal word None.

**Hazard statement** The mixture does not meet the criteria for classification.

**Precautionary statement** 

PreventionNone required according to OSHA Hazcom 2012.ResponseNone required according to OSHA Hazcom 2012.StorageNone required according to OSHA Hazcom 2012.DisposalNone required according to OSHA Hazcom 2012.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

#### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Bacitracin Zinc USP		1405-89-6	Proprietary
Neomycin Sulfate USP		1405-10-3	Proprietary
Petrolatum USP		8009-03-8	Proprietary
Polymyxin B Sulfate		1405-20-5	Proprietary

#### 4. First-aid measures

**Inhalation** If symptoms develop move victim to fresh air. Get medical attention if symptoms persist.

**Skin contact** Wash off with warm water and soap. Get medical attention if symptoms occur.

Eye contact Any material that contacts the eye should be washed out immediately with water. If easy to do,

remove contact lenses. Get medical attention if symptoms persist.

**Ingestion** Seek medical advice.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Direct contact with eyes may cause temporary irritation.

Treat symptomatically.

#### 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Alcohol foam. Dry chemicals. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical

Thermal decomposition or combustion may liberate toxic gases or fumes.

Special protective equipment and precautions for firefighters

None known.

Fire fighting

equipment/instructions

General fire hazards

Carbon oxides.

Hazardous combustion

products

No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Methods and materials for containment and cleaning up

Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Absorb spill with vermiculite or other inert material, then place in a sealed container for chemical waste.

Large Spills: Flush with plenty of water. Prevent entry into waterways, sewer, basements or confined areas. Dike for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

#### 7. Handling and storage

Precautions for safe handling

When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Use only with adequate ventilation. Wash thoroughly after handling.

...

Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Keep cool. Store away from incompatible materials.

#### 8. Exposure controls/personal protection

#### Occupational exposure limits

Bio

controls

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Petrolatum USP (CAS 8009-03-8)	PEL	5 mg/m3	Mist.
US. ACGIH Threshold Lin	nit Values		
Components	Туре	Value	Form
Petrolatum USP (CAS 8009-03-8)	TWA	5 mg/m3	Inhalable fraction.
US. NIOSH: Pocket Guide	e to Chemical Hazards		
Components	Туре	Value	Form
Petrolatum USP (CAS 8009-03-8)	STEL	10 mg/m3	Mist.
•	TWA	5 mg/m3	Mist.
ological limit values	No biological exposure limits noted t	for the ingredient(s).	

Ensure adequate ventilation, especially in confined areas.

Appropriate engineering

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

**Hand protection** Chemical resistant gloves recommended.

Other Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of

exposure. Contact health or safety professional or manufacturer for specific information.

**Respiratory protection** If engineering controls do not maintain airborne concentrations below recommended exposure

limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Contact health and safety professional or

manufacturer for specific information.

Thermal hazards Not available.

General hygiene Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

#### 9. Physical and chemical properties

Appearance Ointment.
Physical state Liquid.
Form Gel.

Color White to off-white.

Odor Not available.

Odor threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

Flash point > 199.9 °F (> 93.3 °C) Closed Cup

Evaporation rate Not available.
Flammability (solid, gas) Not applicable.
Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) Not available.
Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Insoluble.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

Specific gravity 0.83

### 10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Stable at normal conditions.

**Possibility of hazardous** Hazardous polymerization does not occur.

reactions

Conditions to avoid High temperatures.

Incompatible materials Strong oxidizing agents. Acids.

Hazardous decomposition

products

Carbon oxides.

#### 11. Toxicological information

#### Information on likely routes of exposure

**Inhalation** Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Skin contact

No adverse effects due to skin contact are expected.

Eye contact

Direct contact with eyes may cause temporary irritation.

Ingestion No harmful effects expected in amounts likely to be ingested by accident.

Most important

symptoms/effects, acute and

delayed

Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity No adverse effects are expected.

**Skin corrosion/irritation**This product is not classified as a skin corrosive or irritant. **Serious eye damage/eye**Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** This product is not expected to cause respiratory sensitization.

**Skin sensitizer** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

**Reproductive toxicity** This product is not expected to cause reproductive effects.

Specific target organ toxicity -

single exposure

Not classified as a specific target organ toxicity -single exposure.

Specific target organ toxicity -

repeated exposure

Not classified as a specific target organ toxicity -repeated exposure.

**Aspiration toxicity** Not expected to be an aspiration hazard.

#### 12. Ecological information

**Ecotoxicity** Not expected to be harmful to aquatic organisms.

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Mobility in soil Not available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

#### 14. Transport information

DOT

Not regulated as dangerous goods.

**IATA** 

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to Not available.

Annex II of MARPOL 73/78 and the IBC Code

#### 15. Regulatory information

**US** federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

**Safe Drinking Water Act** 

Not regulated.

(SDWA)

#### **US** state regulations

#### US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

#### **US. Massachusetts RTK - Substance List**

Petrolatum USP (CAS 8009-03-8)

#### US. New Jersey Worker and Community Right-to-Know Act

Not listed

#### US. Pennsylvania Worker and Community Right-to-Know Law

Petrolatum USP (CAS 8009-03-8)

#### **US. Rhode Island RTK**

Not regulated.

#### **US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

No

#### US - California Proposition 65 - CRT: Listed date/Developmental toxin

Neomycin Sulfate USP (CAS 1405-10-3) Listed: October 1, 1992

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other information, including date of preparation or last revision

01-19-2015 Issue date

Version # 01

United States & Puerto Rico

Disclaimer Prepared by: ICC The Compliance Center Inc. 1-888-442-9628

http://www.thecompliancecenter.com

Toxic Substances Control Act (TSCA) Inventory

Disclaimer

This Safety Data Sheet was prepared by ICC The Compliance Center Inc. using information provided by / obtained from and CCOHS' Web Information Service. The information in the Safety Data Sheet is offered for your consideration and guidance when exposed to this product. ICC The Compliance Center Inc. and expressly disclaim all expressed or implied warranties and assume no responsibilities for the accuracy or completeness of the data contained herein. The data in this

SDS does not apply to use with any other product or in any other process.

This Safety Data Sheet may not be changed, or altered in any way without the expressed

knowledge and permission of ICC The Compliance Center Inc. and

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices (2014) **Bibliography** 

Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases, 2014

(Chempendium, RTECs, HSDB, INCHEM)

European Chemicals Bureau, Existing Chemicals Work Area, EINECS Information System, 2014.

Material Safety Data Sheet from manufacturer.

OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2014.





1. Product and Company Identification

Product identifier Sani-Cloth HB Germicidal Disposable Wipe SDS0042

Other means of identification Not available

**Recommended use** Hard, Nonporous Surface Disinfectant **Recommended restrictions** For Professional and Hospital Use

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

**Company name** Professional Disposables International, Inc.

Address Two Nice-Pak Park,

Orangeburg, NY 10962-1376

**Telephone** 1-845-365-1700 (M-F 9am - 5pm)

Emergency phone number 1-800-999-6423

#### 2. Hazards Identification

Physical hazards Not classified.

Health hazards Not classified.

Environmental hazards Not determined.

OSHA defined hazards Not classified.

Label elements

Hazard symbol None.
Signal word None.

**Hazard statement** The mixture does not meet the criteria for classification.

Precautionary statement

**Prevention** Observe good industrial hygiene practices.

**Response** Wash hands after handling.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information Not applicable.

### 3. Composition/Information on Ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Benzyl-C12-18-alkyldimethyl ammonium chlorides		68391-01-5	0.07
Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]di methyl, chlorides		85409-23-0	0.07

### 4. First Aid Measures

**Inhalation** Not a normal route of exposure.

Skin contact If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water

for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or

going for treatment.

Eye contact Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if

present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor

for treatment advice.

Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Ingestion

Obtain medical attention.

Most important

symptoms/effects, acute and

delayed

Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special

treatment needed

Treat patient symptomatically.

**General information** If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Avoid contact with eyes, skin and clothing. Keep out of reach of

children.

5. Fire Fighting Measures

Suitable extinguishing media

Unsuitable extinguishing media

Treat for surrounding material.

None known.

Specific hazards arising from

the chemical

Firefighters should wear a self-contained breathing apparatus.

Special protective equipment and precautions for firefighters

Firefighters should wear full protective clothing including self contained breathing apparatus.

Fire-fighting

equipment/instructions

In the event of fire, cool product with water spray.

Cool product exposed to flames with water until well after the fire is out. Specific methods

No unusual fire or explosion hazards noted. General fire hazards

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Prevent entry into waterways, sewers or confined areas. Pick up and discard towel. For waste

disposal, see section 13 of the SDS.

Avoid discharge into drains, water courses or onto the ground. **Environmental precautions** 

7. Handling and Storage

Use good industrial hygiene practices in handling this material. Precautions for safe handling

Do not reuse towelette.

Do not reuse the empty container. When using do not eat or drink.

Conditions for safe storage, including any incompatibilities Store in a closed container away from incompatible materials. Store away from incompatible materials (see Section 10 of the SDS).

Keep out of reach of children.

8. Exposure Controls/Personal Protection

Occupational exposure limits

No exposure limits noted for ingredient(s).

**Biological limit values Exposure guidelines** 

No biological exposure limits noted for the ingredient(s). This material does not have established exposure limits.

Appropriate engineering

controls

Ensure adequate ventilation.

Individual protection measures, such as personal protective equipment

Wear gear as deemed necessary. Follow label directions. Eye/face protection

Skin protection Hand protection

Wear as deemed necessary, follow label directions.

Other

As required by employer code.

Respiratory protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. Washing with soap and water after use is recommended as good hygienic practice to prevent possible eye irritation from

hand contact. When using do not eat or drink.

#### 9. Physical and Chemical Properties

Liquid saturated on wipe **Appearance** 

Solid. Physical state

Liquid saturated on wipe **Form** 

White Color Odor Mild quat Not available. **Odor threshold** 10.75 (liquid) На Melting point/freezing point Not available. Initial boiling point and boiling Not available.

range

Pour point Not available.

Specific gravity 1.0027 g/mL (liquid)

**Partition coefficient** Not available.

(n-octanol/water)

> 212.0 °F (> 100.0 °C) Tag Closed Cup (Liquid) Flash point

Not available. **Evaporation rate** Not applicable. Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Flammability limit - upper

Not available.

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%) Vapor pressure Not available.

Not available. Vapor density Not available. Relative density Wipe is not soluble Solubility(ies) Not available. **Auto-ignition temperature** 

Not available. **Decomposition temperature Viscosity** Not available.

#### 10. Stability and Reactivity

May react with incompatible materials. Reactivity Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Stable under recommended storage conditions. Chemical stability

Conditions to avoid Avoid temperatures exceeding the flash point. Do not mix with other chemicals.

Contact with incompatible materials.

Acids. Oxidizers. Caustics. Incompatible materials

Hazardous decomposition

products

May include and are not limited to: Oxides of carbon. Chloride compounds Ammonia.

### 11. Toxicological Information

#### Information on likely routes of exposure

Ingestion Not applicable under normal conditions of use.

Inhalation Health injuries are not known or expected under normal use.

Skin contact Prolonged skin contact may cause skin irritation.

Eye contact Health injuries are not known or expected under normal use.

Symptoms related to the Symptoms may include stinging, tearing, redness, swelling of the eyes, and blurred vision. physical, chemical and

Symptoms may include redness, drying, defatting and cracking of the skin.

Symptoms may include stomach distress, nausea or vomiting. toxicological characteristics

Information on toxicological effects

**Acute toxicity** 

Components	Species (OAS SSSS 4 SA 5)	Test Results	
	onium chlorides (CAS 68391-01-5)		
Acute			
<i>Dermal</i> LD50	Rat	2000 mg/kg	
	Nat	1420 mg/kg	
toto de Com		1420 Hig/kg	
Inhalation LC50	Not available		
	Not available		
<i>Oral</i> LD50	Mouse	150 mg/kg	
	Rat	240 mg/kg	
2			
Quaternary ammonium compounds  Acute	s, C12-14-alkyl[(ethylphenyl)methyl]di	metnyl, chlorides (CAS 85409-23-0)	
Dermal			
LD50	Not available		
Inhalation			
LC50	Not available		
Oral			
LD50	Rat	300 - 2000 mg/kg	
Skin corrosion/irritation	Prolonged skin contact may cause t		
Exposure minutes	Not available.		
Erythema value	Not available.		
Oedema value	Not available.		
		tomporary irritation	
Serious eye damage/eye rritation	Direct contact with eyes may cause	temporary imitation.	
Corneal opacity value	Not available.		
Iris lesion value	Not available.		
Conjunctival reddening value	Not available.		
Conjunctival oedema value	Not available.		
Recover days	Not available.		
Respiratory or skin sensitization			
Respiratory sensitization	Not available.		
Skin sensitization	This product is not expected to caus	se skin sensitization.	
Germ cell mutagenicity	Non-hazardous by OSHA criteria.		
Carcinogenicity	Non-hazardous by OSHA criteria.		
-	lated Substances (29 CFR 1910.100	01-1050)	
Not listed.		,	
Reproductive toxicity	Non-hazardous by OSHA criteria.		
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not classified.		
Chronic effects	Non-hazardous by OSHA criteria.		
Further information	This product has no known adverse	effect on human health.	
	12. Ecological In		
Ecotoxicity		ronmentally hazardous. However, this does not exclude the s can have a harmful or damaging effect on the environmen	
Persistence and degradability	No data is available on the degrada	bility of this product.	
Bioaccumulative potential	No data available.		
Mobility in soil	No data available.		
Mobility in general	Not available.		

#### Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal Considerations

**Disposal instructions** Local disposal regulations Dispose of used towelette in trash. Do not flush in toilet. Dispose in accordance with all applicable regulations.

Hazardous waste code

This product is not a hazardous waste.

Waste from residues / unused

products

Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Empty packaging may be disposed in trash.

#### 14. Transport Information

#### U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

#### 15. Regulatory Information

#### US federal regulations

This product is NOT known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

PRECAUTIONARY STATEMENTS: Hazard to humans and domestic animals.

CAUTION: Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or tobacco. Remove contaminated clothing and wash before reuse.

EPA Reg. # 61178-4-9480 EPA Est. # 9480-NY-1.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes **Hazard categories** 

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

**SARA 302 Extremely** hazardous substance

SARA 311/312 Hazardous

chemical

Nο

SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

(SDWA)

Not regulated.

Food and Drug Administration (FDA) Not regulated.

US state regulations

This product is not subject to warning labeling under the California Proposition 65 regulation.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

#### **US - Texas Effects Screening Levels: Listed substance**

Benzyl-C12-18-alkyldimethyl ammonium chlorides Listed. (CAS 68391-01-5)

**US. Massachusetts RTK - Substance List** 

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

**US. Rhode Island RTK** 

Not regulated.

Country(s) or region Inventory name

On inventory (yes/no)\*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

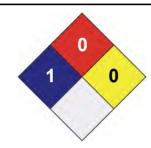
Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

#### 16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Issue date

11-February-2015

**Further information** 

For any questions surrounding this SDS, please contact the supplier/manufacturer listed on the first page of the document.

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Not for use on skin. Not a baby wipe. For use on hard surfaces only.

Revision 0.

Bulk Liquid # 4BQ08401.

Other information

This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Prepared by

Dell Tech Laboratories, Ltd. Phone: (519) 858-5021



## SaniDate® All Purpose Disinfectant

Form #:	SDS-051	
Revision Date:	7/31/2020	
Revision #:	04	
Supersedes Date:	04/09/2019	

	Section 1: Identification				
Product Name:	SaniDate® All Purpose Disinfectant	Product Type / Description:	Antimicrobial / Disinfectant		
Recommended	Antimicrobial / Disinfectant	Other Means of	Aqueous solution of hydrogen peroxide and		
Use:	Antimicrobial / Disimectant	Identification:	peracetic acid		
Use Restrictions:	It is a violation of federal law to use this product in a manner inconsistent with its labeling.	Chemical Formula:	CH₃CO₃H		
Manufacturer:	BioSafe Systems, LLC 22 Meadow Street   East Hartford, CT 06108	EPA Registration #:	70299-27		
Telephone Number:	1-888-273-3088	Emergency Number: 1-800-424-9300 (CHEMTREC)			

Section 2: Hazard Identification			
GHS Classification	Hazard Statements		
Acute Toxicity	H302: Harmful if swallowed.		
Oral: Category 4	H313: May be harmful in contact with skin.		
Dermal: Category 5	H316: Causes mild skin irritation.		
Skin Corrosion/Irritation: Category 3	H318: Causes serious eye damage.		
Serious Eye Damage/Eye Irritation: Category 1			
Pictograms	Signal Word		
Precautio	DANGER		
General	Response		
P101: If medical advice is needed, have product container or label at	P305+P351+P338: IF IN EYES: Rinse cautiously with water for several		
hand.	minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P102: Keep out of reach of children.	P310: Immediately call a POISON CENTER/doctor.		
P103: Read label before use.	P321: For specific treatments see FIRST AID section on SDS or label		
	P332+P313: If skin irritation occurs: Get medical advice/attention		
Prevention	Storage / Disposal		
P264: Wash thoroughly after handling.	P402 + P404: Store in a dry place. Store in a closed container.		
P280: Wear protective gloves, clothing, eye protection, face protection.			
	P501: Dispose of contents/container in accordance with		
	F301. Dispose of contents/container in accordance with		

Section 3: Composition / Information on Ingredients					
Components CAS-No % Composition (w/w)					
Hydrogen Peroxide	7722-84-1	4.40 – 6.67%			
Peroxyacetic Acid	79-21-0	1.02 – 1.70%			
Acetic Acid	64-19-7	13.78 – 15.23%			

Section 4: First-Aid Measures				
Eye Contact:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5			
	minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.			
Skin Contact:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or			
	doctor for treatment advice.			
Ingestion:	: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not			
	induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious			
	person.			
Inhalation:	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-			
mouth if possible. Call poison control center or doctor for treatment advice. Have the product container or label with you who				
calling a poison control center or doctor or going for treatment. You may also contact 1.800.222.1222 for emergency treatmen				
	information.			
Notes to Physician:	Probable mucosal damage may contraindicate the use of gastric lavage.			



## SaniDate® All Purpose Disinfectant

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Most Important Symptoms and effects both acute and delayed Burning.

	Section 5: Fire-Fighting Measures				
Suitable Extinguishing Media: Water spray, dry chemical, alcohol foam, or carbon dioxide.		Water spray, dry chemical, alcohol foam, or carbon dioxide.			
Unsuitable Exting	nsuitable Extinguishing Media: None.				
Combu	Combustion Products: Carbon Oxides.				
Unusual Fire	Unusual Fire and Explosion Product is not flammable but during a fire, product can decompose and generate oxygen which can initiate of				
	Hazards:	promote combustion.			
Protective	Full chemical protection suits and boots (rubber or PVC) and self-contained breathing apparatus. Cordon the area to keep out all				
Equipment for	unnecessary personnel. Keep upwind. Use large quantities of water spray to fight fire. Cool containers / tanks with water spray. If				
Firefighters:	safe to do, move product away from fire to secure area. Eliminate all possible sources of ignition and remove flammable material.				

Section 6: Accidental Release Measures			
Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact			
	with skin and eyes.		
Emergency Procedures:	Keep away materials that are incompatible with this product. All receiving equipment should be clean, dry, vented,		
labeled and made of materials compatible with the product.			
<b>Environmental Precautions:</b>	Prevent spill from entering waterways.		
Methods and Material for	Do not return spilled or contaminated material to inventory. Rinse small amounts to drain, when possible. Clean the		
Containment and Clean-Up:	area with water.		

Section 7: Handling and Storage			
Handling:	Wear protec	ctive gloves/eye protection. Do not eat, drink, or smoke when using this product. Wash thoroughly after handling. Use only	
	outdoors or in a well-ventilated area.		
Storage:	Keep away from heat. Keep only in original container. Protect from sunlight. Store at temperatures not exceeding 55°C (131°F). Never		
	return product back to the original container. Store in cool, ventilated area. Never use metal containers or spigots. Use vented container.		
Incompatibl	Incompatible Materials: Store away from combustible materials. Keep concentrate away from reactive substances.		
Compatible	Compatible Materials: 304L Stainless Steel, 316L Stainless Steel, Passivated Aluminum; High Density Polyethylene (HDPE), Polyvinyl Chloride (PVC)		

Section 8: Exposure Controls / Personal Protection						
Components with Workplace Control Parameters						
Component	Component ACGIH NIOSH OSHA					
Acetic Acid	TWA: 10 ppm STEL: 15 ppm	TWA: 25 mg/m <sup>3</sup> - 8 hours. TWA: 10 ppm - 8 hours. IDLH: 50 ppm	TWA: 25 mg/m <sup>3</sup> - 8 hours. TWA: 10 ppm - 8 hours.			
Hydrogen Peroxide	TWA: 1 ppm	TWA: 1.4 mg/m³ - 8 hours. TWA: 1 ppm - 8 hours. IDLH: 75 ppm	TWA: 1.4 mg/m³ - 8 hours. TWA: 1 ppm - 8 hours.			
Peracetic Acid	STEL: 0.4 ppm					

Engineering Controls:	Ensure adequate ventilation. Emergency eye wash stations / emergency showers should be available in the immediate vicinity of any potential exposure.					
General Hygienic Practices:	Do not eat, drink or smoke during use. Wash hands immediately after handling the product.					
	Personal Protective Equipment					
Respiratory Protection:	Use NIOSH-approved air-purifying or supplied air respirator where airborne concentrations of vapor or mist are					
	expected to exceed exposure limits. Recommended respirators are those with an organic vapor / acid gas cartridge.					
Eye / Face Protection:	Chemical resistant goggles or face shield if splashes are expected to occur.					
Hand Protection:	Rubber/latex/neoprene or other suitable chemical resistant gloves. Do not use leather or cotton gloves.					
Skin / Body Protection:	Wear non-combustible clothing and footwear (PVC, neoprene, nitrile or natural rubber).					

Section 9: Physical and Chemical Properties								
Appearance: Clear, colorless liquid. Odor: Slight vinegar. Odor Threshold: NA								
Physical State:	Liquid.	pH:	<1.5	Specific Gravity:	1.04 g/cm <sup>3</sup>			
Melting Point:	NA	Freezing Point:	-30°C (-22°F)	Boiling Point:	NA			
Flash Point:	NA	Flammability:	NA	Flammability Limits:	NA			



## SaniDate® All Purpose Disinfectant

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Vapor Pressure:	22 mm Hg (25°C)	Vapor Density:	NA		Solubility:	Complete.
Evaporation Rate:	NA	Auto-Ignition Temperature:	NA		Decomposition Temperature:	SADT > 55°C (131°F)
Relative Density:	NA	Partition Coeffic	ient n-octanol / water:	NA	Viscosity:	NA

Section 10: Stability and Reactivity					
Reactivity: Non-reactive under recommended storage conditions.					
Stability: Stable under recommended storage conditions.					
Conditions to Avoid:	Open flames, elevated temperatures, heat sources, direct sunlight. Combustible materials.				
Incompatible Materials: Acids / Bases / Reducing Agents / Organic Materials / Metals / Salts of Metals.					
Hazardous Decomposition Products:	Thermal decomposition generates corrosive vapors, acetic acid and oxygen which supports combustion.				

Section 11: Toxicological Information								
Acute Toxicological Data								
Oral LD50 Rat:	>2000 mg/kg	Dermal LD50 Rat:	>5000 mg/k	g	Inhalation LC50 Rat:	NA		
Symptoms and Effects								
Condition	Α	cute Effects		Chronic (Delayed) Effects				
Eye Contact:	Causes serious eye dama	ige.		None.				
Skin Contact:	May cause irritation.			None.				
Inhalation:	May cause respiratory tr	act irritation.		None.				
Ingestion:	Harmful if swallowed.			None.				

Section 12: Ecological Information								
	Duration		Species	Value				
Ecotovicity	48 hr LC5	0	Oncorhynchus mykiss (rainbow trout)	40 mg/L				
Ecotoxicity.	### Ecotoxicity: 48 hr EC50		Crustaceans	126.8 mg/L				
			Pseudomonas aeruginosa	5 mg/L				
Persistence and	d Degradability:	Weak pe	rsistence of degradation products.					
Bioaccumul	ative Potential:	Does not	t bioaccumulate.					
	Mobility in Soil: Non-significant adsorption soil degradation, >99% in 20 minutes.							
Results of PBT & vPvB: This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).								
Other A	Adverse Effects:	None kn	own.					

Section 13: Disposal Considerations					
Waste from Residues and Unused Product: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and					
international regulations.					
Contaminated Container Disposal:	Do not reuse or refill containers. Triple rinse empty containers with clean water. Clean and empty				
containers should be taken to an approved waste handling site for recycling or disposal.					

	Section 14: Transport Information									
UN N	umber		UN Proper Shipping Name	Hazard Class (Subsidiary)	Packing Group	IATA	Marine Pollutant			
DOT	NA		Not regulated.	NA	NA	Permitted for				
TDG	NA		Not regulated.	NA	NA	shipment by				
IMDG	NA		Not regulated.	NA	NA	air.	No			
Special Precautions:			Vented container.							
	Shippi	ng Placards:	NA		•					

	Section 15: Regulatory Information									
TSCA	TSCA Inventory List				US EPA CERCLA Hazardous Subs	tances		Clean Water Act		
Aceti	Acetic Acid Ye		5		Acetic Acid	5000 lbs.	5000 lbs.			
Hydrogen Per	oxide	Yes	5		Hydrogen Peroxide	NA	NA			
Peraceti	c Acid	Yes	5		Peracetic Acid	NA	NA	NA		
					SARA Title III					
	Sec. 3	02 TPQ.	Sec 3	04 RQ.	Sec 311 / Sec 312 Hazard	Sec 311 / Sec 312 Hazard Category		Clean Air Act Threshold Qty.		
Acetic Acid	C Acid NA NA NA		NA		NA NA			NA	NA	
Hydrogen	100	00 lbs.	100	0 lbs.*	Physical: Oxidize	r	NA	NA		



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Peroxide		Health: Acute Toxicity; Skin Corrosion or Irritation; Serious									
				Eye Damage or Eye Irritation; Specific target organ toxicity							
Peracetic	500 lbs.	lbs. 500 lbs. <b>Physical</b> : Organic Peroxide; Corrosive to Metals							Yes	10000 lbs.	
Acid				Health: Acute Tox	icity; Skir	n Corrosion or I	rritation;	Serious			
				Eye Damage or Ey	e Irritatio	on; Specific targ	get organ	toxicity			
*Hydrogen Per	oxide Reportable	e Quantity	only app	olies to concentratio	ons > 52%	6					
NFI	NFPA 704 Rating Health:			Flammability:	0	Reactivity:	0	Special:	None.		
	HMIS Rating Health: 2			Flammability:	0	Physical:	0	PPE:	Recommended.		
Unifor	m Fire Code (NF	PA 400)	NA								
California Pro	California Prop 65  This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.										
	This proc	luct is a re	gistered	pesticide with the I	<b>United St</b>	ates Environme	ental Prot	ection Age	ncy (EPA)	). These requirements may	
EI				on criteria and hazard information required for a safety data sheet under the Global Harmonized							
Systems (GHS), and for workplace labels of non-pesticide chemicals. It is a violation of Federal law to use this product in a							o use this product in a manner				
	inconsistent with its labeling. Always refer to product label for further precautionary information and use directions.										

#### **Section 16: Other Information**

#### According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

To the extent of our knowledge, the information herein is accurate as of the date of this document. However, neither BioSafe Systems nor any of its affiliates make any warranty, expressed or implied, or accept any liability relating to the information or its use. The information is for use by technically skilled persons at their own discretion and risk. This is not a license or a patent. The user alone must finally determine suitability of any information or material for any contemplated use, the manner or use and whether any patents are infringed. Always read and follow label directions.

Issuing Date: 4/9/2019 Revision Date: 7/31/20 Revision Notes: Section 4 most important symptoms update, and section 16 added dates. For additional information, call us toll-free at 1.888.273.3088 or visit <a href="https://www.biosafesystems.com">www.biosafesystems.com</a> **Biasafe Systems** ©2020 BioSafe Systems, LLC.

**SDS DATE: 11.11.15** 

# \*\*\* SAFETY DATA SHEET\*\*\*

#### **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: SELECT® Povidone Iodine, USP Swabsticks

**REORDER #:** 986 (1's), 987 (3's)

MANUFACTURED FOR: McKesson Medical Surgical, Inc.

9954 Mayland Drive Richmond, VA 23233

**INFORMATION LINE: 1-800-777-4908** 

EMERGENCY PHONE: 1-800-451-8346 (3E Company)

**PRODUCT DESCRIPTION: N/A** 

#### **SECTION 2: COMPOSITION/INFORMATION OF INGREDIENTS**

<u>INGREDIENT</u> <u>CAS NO.</u> <u>%</u> <u>EXPOSURE LIMITS</u>

 Povidone Iodine Powder
 25655-41-8
 4.9%
 N/A

 Purified Water
 7732-18-5
 95.1%
 N/A

SECTION 2 NOTES: N/A

#### **SECTION 3: HAZARDS IDENTIFICATION**

ROUTES OF ENTRY: Skin contact, Ingestion, Eye contact, Inhalation

POTENTIAL HEALTHEFFECTS

EYES: Irritation to eyes if contact occurs

SKIN: Irritation to skin if contact occurs

INGESTION: Harmful if swallowed

INHALATION: Harmful if inhaled

**ACUTE HEALTH HAZARDS: N/A** 

**CHRONIC HEALTH HAZARDS: N/A** 

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N/A

**CARCINOGENICITY** 

OSHA: N/A ACGIH: N/A NTP: N/A IARC: N/A

OTHER: N/A

**SECTION 3 NOTES: N/A** 

#### **SECTION 4: FIRST-AID MEASURES**

**EYES:** Immediately flood the eye with plenty of water for at least 15 minutes, holding the eyes open. Obtain medical attention if soreness or redness persists.

**SKIN:** Immediately flood the skin with large quantities of water. Remove contaminated clothing and continue washing. Obtain medical attention if blistering occurs or redness persists.

**INGESTION:** Do not induce vomiting. Have victim drink 1—3 glasses of water to dilute stomach contents. If there is difficulty in breathing, give oxygen. Obtain medical attention immediately.

INHALATION: Remove from exposure. If there is difficulty in breathing, give oxygen. Obtain medical attention immediately.

**SDS DATE:** 11.11.15

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: N/A

SECTION 4 NOTES: N/A

#### **SECTION 5: FIRE-FIGHTING MEASURES**

FLAMMABLE LIMITS IN AIR, UPPER: N/A (% BY VOLUME) LOWER: N/A

FLASH POINT: N/A METHOD USED: N/A

**AUTOIGNITION TEMPERATURE: N/A** 

NFPA HAZARD CLASSIFICATION

HEALTH: N/A FLAMMABILITY: N/A REACTIVITY: N/A

OTHER: N/A

**HMIS HAZARD CLASSIFICATION** 

HEALTH: N/A FLAMMABILITY: N/A REACTIVITY: N/A

PROTECTION: N/A

**EXTINGUISHING MEDIA:** Use dry chemical, foam or carbon dioxide. Be aware of the possibility of re-ignition. Keep containers and surrounding cool with waterspray.

SPECIAL FIRE FIGHTING PROCEDURES: Wear full protective clothing and self-contained breathing apparatus.

 $\textbf{UNUSUAL FIRE AND EXPLOSIONHAZARDS:} \ N/A$ 

**HAZARDOUS DECOMPOSITION PRODUCTS: N/A** 

SECTION 5 NOTES: Non-flammable liquid.

SECTION 6: ACCIDENTAL RELEASE MEASURES

**ACCIDENTAL RELEASE MEASURES: N/A** 

**SECTION 6 NOTES: N/A** 

SECTION 7: HANDLING ANDSTORAGE

**HANDLING: N/A** 

STORAGE: Store in the sealed containers. Storage areas should be cool, dry, and well-ventilated away from incompatible materials.

OTHER PRECAUTIONS: N/A
SECTION 7 NOTES: N/A

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** 

VENTILATION: N/A

**RESPIRATORY PROTECTION: N/A** 

EYE PROTECTION: N/A
SKIN PROTECTION: N/A

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: N/A

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**SDS DATE: 11.11.15** 

**WORK HYGIENIC PRACTICES: N/A** 

**EXPOSURE GUIDELINES: N/A** 

**SECTION 8 NOTES: N/A** 

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE & ODOR: N/A

PHYSICAL STATE: N/A

pH AS SUPPLIED: N/A pH (Other: N/A BOILING POINT: N/A MELTING POINT: N/A FREEZING POINT: N/A

VAPOR PRESSURE (mmHg): N/A

@ N/A

VAPOR DENSITY (AIR = 1): N/A

@ N/A

SPECIFIC GRAVITY (H2O = 1): N/A

@ N/A

**EVAPORATION RATE: N/A** 

BASIS (=1): N/A

**SOLUBILITY IN WATER: N/A** 

PERCENT SOLIDS BY WEIGHT: N/A

PERCENT VOLATILE: N/A

BY WT/ N/A BY VOL @ N/A

VOLATILE ORGANIC COMPOUNDS (VOC): N/A

WITH WATER: N/A LBS/GAL WITHOUT WATER: N/A LBS/GAL

MOLECULAR WEIGHT: N/A

VISCOSITY: N/A @ N/A

SECTION 9 NOTES: N/A

## SECTION 10: STABILITY AND REACTIVITY

STABLE UNSTABLE

STABILITY: X

**CONDITIONS TO AVOID (STABILITY): N/A** 

INCOMPATIBILITY (MATERIAL TO AVOID): N/A

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** N/A

HAZARDOUS POLYMERIZATION: N/A

CONDITIONS TO AVOID (POLYMERIZATION): N/A

**SDS DATE:** 11.11.15

SECTION 10 NOTES: N/A

**SECTION 11: TOXICOLOGICAL INFORMATION** 

TOXICOLOGICAL INFORMATION: N/A

SECTION 11 NOTES: N/A

**SECTION 12: ECOLOGICAL INFORMATION** 

**ECOLOGICAL INFORMATION: N/A** 

SECTION 12 NOTES: N/A

**SECTION 13: DISPOSAL CONSIDERATIONS** 

**WASTE DISPOSAL METHOD:** 

RCRA HAZARD CLASS: N/A

SECTION 13 NOTES: N/A

#### **SECTION 14: TRANSPORTINFORMATION**

## U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME: N/A

HAZARD CLASS: N/A

DOT SHIPPING ID NUMBER: N/A DOT PACKING GROUP: N/A DOT LABEL STATEMENT: N/A

#### WATER TRANSPORTATION

PROPER SHIPPING NAME: N/A

HAZARD CLASS: N/A
ID NUMBER: N/A
PACKING GROUP: N/A
LABEL STATEMENTS: N/A

## AIR TRANSPORTATION

PROPER SHIPPING NAME: N/A

HAZARD CLASS: N/A ID NUMBER: N/A PACKING GROUP: N/A LABEL STATEMENTS: N/A

SECTION 14 NOTES: N/A

## **SECTION 15: REGULATORYINFORMATION**

## **U.S. FEDERAL REGULATIONS**

TSCA (TOXIC SUBSTANCE CONTROL ACT): N/A

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): N/A

311/312 HAZARD CATEGORIES: N/A

313 REPORTABLE INGREDIENTS: N/A

**STATE REGULATIONS: N/A** 

INTERNATIONAL REGULATIONS: N/A

SECTION 15 NOTES: N/A

**SDS DATE:** 11.11.15

**SECTION 16: OTHER INFORMATION** 

**OTHER INFORMATION: N/A** 

PREPARATION INFORMATION: N/A

**DISCLAIMER:** This information relates onto to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. The information and recommendations contained herein are to the best of the manufacturer's knowledge and belief accurate and reliable as of the date indicated. No representation warranty or guarantee, however, is made with regards to accuracy, reliability or completeness. Conditions of use of the material are under the control of the user; therefore, it is the user's responsibility to satisfy itself as to the suitability and completeness of such information for its own particular use. Appropriate warnings and safe-handling procedures should be provided to handlers and users.



A Pfizer Company

Revision date: 25-Oct-2016 Version: 2.0 Page 1 of 8

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

**Product Identifier** 

Material Name: Sodium Chloride Irrigation (Hospira, Inc.)

Trade Name: Not established Chemical Family: Mixture

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Intended Use: Pharmaceutical product

**Details of the Supplier of the Safety Data Sheet** 

Hospira, A Pfizer Company 275 North Field Drive Lake Forest, Illinois 60045

1-800-879-3477

Emergency telephone number:

CHEMTREC (24 hours): 1-800-424-9300 Contact E-Mail: pfizer-MSDS@pfizer.com **Hospira UK Limited** 

Horizon Honey Lane Hurley

Maidenhead, SL6 6RJ United Kingdom

**Emergency telephone number:** 

International CHEMTREC (24 hours): +1-703-527-3887

## 2. HAZARDS IDENTIFICATION

**Classification of the Substance or Mixture** 

GHS - Classification Not classified as hazardous

Label Elements

Signal Word: Not Classified

Hazard Statements: Not classified in accordance with international standards for workplace safety.

Other Hazards An Occupational Exposure Value has been established for one or more of the ingredients (see

Section 8).

**Note:** This document has been prepared in accordance with standards for workplace safety, which

requires the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warning included may not apply in all cases.

Your needs may vary depending upon the potential for exposure in your workplace.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Hazardous** 

Material Name: Sodium Chloride Irrigation (Hospira, Inc.)

Revision date: 25-Oct-2016

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3. COMPOSITION / INFORMATION ON INGREDIENTS Ingredient **CAS Number** EU **GHS Classification** % **EINECS/ELINCS** List SODIUM CHLORIDE 7647-14-5 231-598-3 Not Listed 0.45-0.9 SODIUM HYDROXIDE 1310-73-2 215-185-5 Skin Corr. 1A (H314) HYDROCHLORIC ACID 7647-01-0 231-595-7 Skin Corr.1B (H314) STOT SE 3 (H335)

Ingredient	CAS Number	EU EINECS/ELINCS List	GHS Classification	%
Water for injection	7732-18-5	231-791-2	Not Listed	*

Additional Information: \*\* to adjust pH

Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety. In accordance with 29 CFR 1910.1200, the exact percentage composition of this

mixture has been withheld as a trade secret.

For the full text of the CLP/GHS abbreviations mentioned in this Section, see Section 16

## 4. FIRST AID MEASURES

**Description of First Aid Measures** 

Eye Contact:

Due to the nature of this material first aid is not normally required.

Skin Contact:

Due to the nature of this material first aid is not normally required.

Ingestion:

Due to the nature of this material first aid is not normally required.

**Inhalation:** Not an expected route of exposure.

Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms and Effects of No data available

Exposure:

Medical Conditions None known

Aggravated by Exposure:

Indication of the Immediate Medical Attention and Special Treatment Needed

Notes to Physician: None

## 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** As for primary cause of fire.

Special Hazards Arising from the Substance or Mixture

Hazardous Combustion Not applicable

**Products:** 

Fire / Explosion Hazards: Not applicable

Advice for Fire-Fighters
Not applicable

Material Name: Sodium Chloride Irrigation (Hospira, Inc.)

Revision date: 25-Oct-2016

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version date. 25-Oct-2010

## 6. ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment and Emergency Procedures

Not applicable

#### **Environmental Precautions**

None

## Methods and Material for Containment and Cleaning Up

Measures for Cleaning / Wipe up with a damp cloth and place in container for disposal.

Collecting:

Additional Consideration for None

Large Spills:

# 7. HANDLING AND STORAGE

#### **Precautions for Safe Handling**

No special handling requirements for normal use of this material.

## Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Store as directed by product packaging.

Incompatible Materials: None

**ACGIH Ceiling Threshold Limit:** 

Specific end use(s): No data available

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

## **Control Parameters**

Refer to available public information for specific member state Occupational Exposure Limits.

2 mg/m<sup>3</sup>

#### **SODIUM CHLORIDE**

Latvia OEL - TWA 5 mg/m³
Lithuania OEL - TWA 5 mg/m³

## **SODIUM HYDROXIDE**

**Australia PEAK** 2 mg/m<sup>3</sup> 2 mg/m<sup>3</sup> **Austria OEL - MAKs** 2.0 mg/m<sup>3</sup> **Bulgaria OEL - TWA** 1 mg/m<sup>3</sup> Czech Republic OEL - TWA 1 mg/m<sup>3</sup> **Estonia OEL - TWA** France OEL - TWA 2 mg/m<sup>3</sup> **Greece OEL - TWA** 2 mg/m<sup>3</sup> 2 mg/m<sup>3</sup> **Hungary OEL - TWA** Japan - OELs - Ceilings 2 mg/m<sup>3</sup> Latvia OEL - TWA 0.5 mg/m<sup>3</sup> **OSHA - Final PELS - TWAs:** 2 mg/m<sup>3</sup> 0.5 mg/m<sup>3</sup> **Poland OEL - TWA** 2 mg/m<sup>3</sup> Slovakia OEL - TWA Slovenia OEL - TWA 2 mg/m<sup>3</sup> Sweden OEL - TWAs 1 mg/m<sup>3</sup> Switzerland OEL -TWAs 2 mg/m<sup>3</sup>

HYDROCHLORIC ACID

ACGIH Ceiling Threshold Limit: 2 ppm

Material Name: Sodium Chloride Irrigation (Hospira, Inc.)

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS / PERSONAL PROTECT	TION
Australia PEAK	5 ppm
	7.5 mg/m <sup>3</sup>
Austria OEL - MAKs	5 ppm
	8 mg/m <sup>3</sup>
Belgium OEL - TWA	5 ppm
	8 mg/m <sup>3</sup>
Bulgaria OEL - TWA	5 ppm
	8.0 mg/m <sup>3</sup>
Cyprus OEL - TWA	5 ppm
	8 mg/m <sup>3</sup>
Czech Republic OEL - TWA	8 mg/m <sup>3</sup>
Estonia OEL - TWA	5 ppm
	8 mg/m <sup>3</sup>
Germany - TRGS 900 - TWAs	2 ppm
	3 mg/m <sup>3</sup>
Germany (DFG) - MAK	2 ppm
	3.0 mg/m <sup>3</sup>
Greece OEL - TWA	5 ppm
	7 mg/m <sup>3</sup>
Hungary OEL - TWA	8 mg/m <sup>3</sup>
Ireland OEL - TWAs	5 ppm
	8 mg/m <sup>3</sup>
Italy OEL - TWA	5 ppm
	8 mg/m <sup>3</sup>
Japan - OELs - Ceilings	2 ppm
	3.0 mg/m <sup>3</sup>
Latvia OEL - TWA	5 ppm
	8 mg/m <sup>3</sup>
Lithuania OEL - TWA	5 ppm
	8 mg/m <sup>3</sup>
Luxembourg OEL - TWA	5 ppm
	8 mg/m <sup>3</sup>
Malta OEL - TWA	5 ppm
	8 mg/m <sup>3</sup>
Netherlands OEL - TWA	8 mg/m <sup>3</sup>
Poland OEL - TWA	5 mg/m <sup>3</sup>
Portugal OEL - TWA	5 ppm
•	8 mg/m <sup>3</sup>
Romania OEL - TWA	5 ppm
	8 mg/m <sup>3</sup>
Slovakia OEL - TWA	5 ppm
	8.0 mg/m <sup>3</sup>
Slovenia OEL - TWA	5 ppm
	8 mg/m <sup>3</sup>
Spain OEL - TWA	5 ppm
•	7.6 mg/m <sup>3</sup>
Switzerland OEL -TWAs	2 ppm
	3.0 mg/m <sup>3</sup>
Vietnam OEL - TWAs	5 mg/m <sup>3</sup>
	· ·

## **Exposure Controls**

Engineering Controls:
Personal Protective
Equipment:
Engineering controls should be used as the primary means to control exposures.
Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE).

Material Name: Sodium Chloride Irrigation (Hospira, Inc.)

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hands:

Not required for the normal use of this product.

Not required under normal conditions of use.

Not required for the normal use of this product.

Not required for the normal use of this product.

None required under normal conditions of use.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid Color: Colorless

Odor: None Odor Threshold: No data available.

Molecular Formula: Mixture Molecular Weight: Mixture

Solvent Solubility: No data available Water Solubility: No data available

**pH**: 4.5-7.0

Melting/Freezing Point (°C):

Boiling Point (°C):

No data available.

No data available.

Partition Coefficient: (Method, pH, Endpoint, Value)

SODIUM HYDROXIDE
No data available
SODIUM CHLORIDE

No data available

Water for injection

No data available

HYDROCHLORIC ACID

No data available

**Decomposition Temperature (°C):** No data available.

Evaporation Rate (Gram/s):

Vapor Pressure (kPa):

Vapor Density (g/ml):

Relative Density:

No data available

Flammablity:

Autoignition Temperature (Solid) (°C):No data availableFlammability (Solids):No data availableFlash Point (Liquid) (°C):No data availableUpper Explosive Limits (Liquid) (% by Vol.):No data availableLower Explosive Limits (Liquid) (% by Vol.):No data available

## 10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable

Possibility of Hazardous Reactions

Oxidizing Properties: No data available

Conditions to Avoid: None Incompatible Materials: None

Hazardous Decomposition No data available

**Products:** 

Material Name: Sodium Chloride Irrigation (Hospira, Inc.)

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## 11. TOXICOLOGICAL INFORMATION

**Information on Toxicological Effects** 

**General Information:** The information included in this section describes the potential hazards of the individual

ingredients.

Short Term: Mild eye irritant in experimental animals (based on components)

Acute Toxicity: (Species, Route, End Point, Dose)

**SODIUM CHLORIDE** 

Rat Sub-tenon injection (eye) LC50/1hr > 42 g/m<sup>3</sup>

Rat Oral LD 50 3g/kg Mouse Oral LD 50 4g/kg Rabbit Dermal LD 50 > 10g/kg

HYDROCHLORIC ACID

Rat Oral LD 50 238-277 mg/kg

Acute Toxicity Comments: A greater than symbol (>) indicates that the toxicity endpoint being tested was not achievable

at the highest dose used in the test.

Irritation / Sensitization: (Study Type, Species, Severity)

**SODIUM CHLORIDE** 

Skin Irritation Rabbit Mild Eye Irritation Rabbit Mild

Genetic Toxicity: (Study Type, Cell Type/Organism, Result)

HYDROCHLORIC ACID

Bacterial Mutagenicity (Ames) Salmonella Negative

In Vivo Micronucleus Rat Negative

<u>Carcinogen Status:</u> None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA.

HYDROCHLORIC ACID

IARC: Group 3 (Not Classifiable)

## 12. ECOLOGICAL INFORMATION

**Environmental Overview:** No harmful effects to aquatic organisms are expected.

**Toxicity:** No data available

Persistence and Degradability: No data available

Bio-accumulative Potential: No data available

Mobility in Soil: No data available

Material Name: Sodium Chloride Irrigation (Hospira, Inc.) Page 7 of 8 Revision date: 25-Oct-2016 Version: 2.0

## 13. DISPOSAL CONSIDERATIONS

Dispose of waste in accordance with all applicable laws and regulations. Member State **Waste Treatment Methods:** 

specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental

releases. This may include destructive techniques for waste and wastewater.

## 14. TRANSPORT INFORMATION

The following refers to all modes of transportation unless specified below.

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

## 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

#### **SODIUM CHLORIDE**

Not Listed **CERCLA/SARA 313 Emission reporting California Proposition 65** Not Listed Present Inventory - United States TSCA - Sect. 8(b) Australia (AICS): Present **EU EINECS/ELINCS List** 231-598-3

#### Water for injection

**CERCLA/SARA 313 Emission reporting** Not Listed Not Listed California Proposition 65 Inventory - United States TSCA - Sect. 8(b) Present Australia (AICS): Present **REACH - Annex IV - Exemptions from the** Present

obligations of Register:

**EU EINECS/ELINCS List** 231-791-2

#### **SODIUM HYDROXIDE**

**CERCLA/SARA 313 Emission reporting** Not Listed **CERCLA/SARA Hazardous Substances** 1000 lb and their Reportable Quantities: 454 kg **California Proposition 65** Not Listed Inventory - United States TSCA - Sect. 8(b) Present Australia (AICS): Present Standard for the Uniform Scheduling Schedule 5 for Drugs and Poisons: Schedule 6

Material Name: Sodium Chloride Irrigation (Hospira, Inc.)

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VEISION date. 25-Oct-2010

15. REGULATORY INFORMATION	
EU EINECS/ELINCS List	215-185-5
HYDROCHLORIC ACID	
CERCLA/SARA 313 Emission reporting	1.0 %
CERCLA/SARA Hazardous Substances	5000 lb
and their Reportable Quantities:	2270 kg
CERCLA/SARA - Section 302 Extremely Hazardous TPQs	500 lb
CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs	5000 lb
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
Standard for the Uniform Scheduling	Schedule 5
for Drugs and Poisons:	Schedule 6
EU EINECS/ELINCS List	231-595-7

## **16. OTHER INFORMATION**

## Text of CLP/GHS Classification abbreviations mentioned in Section 3

Skin corrosion/irritation-Cat.1A; Skin corrosion/irritation-Cat.1B; H314 - Causes severe skin burns and eye damage Specific target organ toxicity, single exposure; Respiratory tract irritation-Cat.3; H335 - May cause respiratory irritation

**Data Sources:** Publicly available toxicity information.

Reasons for Revision: Updated Section 3 - Composition / Information on Ingredients. Updated Section 11 -

Toxicology Information.

Revision date: 25-Oct-2016

Product Stewardship Hazard Communication

Prepared by: Pfizer Global Environment, Health, and Safety Operations

Pfizer Inc believes that the information contained in this Material Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

**End of Safety Data Sheet** 



Revision date: 16-May-2014 Version: 3.0 Page 1 of 9

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

**Product Identifier** 

Material Name: Hydrocortisone Sodium Succinate for Injection (Act-O-Vial)

Trade Name: Solu-Cortef Chemical Family: Mixture

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Intended Use: Pharmaceutical product used as anti-inflammatory

**Details of the Supplier of the Safety Data Sheet** 

Pfizer Inc Pfizer Pharmaceuticals Group 235 East 42nd Street New York, New York 10017 1-800-879-3477

Emergency telephone number:
CHEMTREC (24 hours): 1-800-424-9300
Contact E-Mail: pfizer-MSDS@pfizer.com

Pfizer Ltd Ramsgate Road Sandwich, Kent CT13 9NJ United Kingdom

+00 44 (0)1304 616161 Emergency telephone number:

International CHEMTREC (24 hours): +1-703-527-3887

# 2. HAZARDS IDENTIFICATION

#### **Classification of the Substance or Mixture**

**GHS - Classification** 

Reproductive Toxicity: Category 2

**EU Classification:** 

EU Indication of danger: Toxic to Reproduction: Category 3

EU Risk Phrases:

R63 - Possible risk of harm to the unborn child.

**Label Elements** 

Signal Word: Warning

Hazard Statements: H361d - Suspected of damaging the unborn child

**Precautionary Statements:** P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P281 - Use personal protective equipment as required

P308 + P313 - IF exposed or concerned: Get medical attention/advice

P405 - Store locked up

P501 - Dispose of contents/container in accordance with all local and national regulations

Page 2 of 9

# **SAFETY DATA SHEET**

Material Name: Hydrocortisone Sodium Succinate for

Injection (Act-O-Vial)

Revision date: 16-May-2014 Version: 3.0



Other Hazards
Australian Hazard Classification
(NOHSC):

No data available

Hazardous Substance. Non-Dangerous Goods.

Note:

This document has been prepared in accordance with standards for workplace safety, which requires the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warning included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your workplace.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### **Hazardous**

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	GHS Classification	%
Hydrocortisone Sodium Succinate	125-04-2	204-725-5	Repr.Cat.3;R63	Repr. 2 (H361d)	< 86
Sodium hydroxide	1310-73-2	215-185-5	C; R35	Skin Corr. 1A (H314)	**
Benzyl Alcohol	100-51-6	202-859-9	Xn; R20/22	Acute Tox. 4 (H302) Acute Tox. 4 (H332)	<14

Ingredient	CAS Number	EU EINECS/ELINCS	EU Classification	GHS Classification	%
		List			
Sodium phosphate, monobasic	7558-80-7	231-449-2	Not Listed	Not Listed	*
Sodium phosphate, dibasic	7558-79-4	231-448-7	Not Listed	Not Listed	*

Additional Information: \* Proprietary

\*\* to adjust pH

Ingredient(s) indicated as hazardous have been assessed under standards for workplace

safety.

In accordance with 29 CFR 1910.1200, the exact percentage composition of this mixture has

been withheld as a trade secret.

For the full text of the R phrases and CLP/GHS abbreviations mentioned in this Section, see Section 16

# 4. FIRST AID MEASURES

**Description of First Aid Measures** 

**Eye Contact:** Flush with water while holding eyelids open for at least 15 minutes. Seek medical attention

immediately.

Skin Contact: Remove contaminated clothing. Flush area with large amounts of water. Use soap. Seek

medical attention.

Material Name: Hydrocortisone Sodium Succinate for Page 3 of 9

Injection (Act-O-Vial)

Revision date: 16-May-2014 Version: 3.0

**Ingestion:** Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not

induce vomiting unless directed by medical personnel. Seek medical attention immediately.

Inhalation: Remove to fresh air and keep patient at rest. Seek medical attention immediately.

Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms and Effects of For information on potential signs and symptoms of exposure, See Section 2 - Hazards

**Exposure:** Identification and/or Section 11 - Toxicological Information.

Medical Conditions None known

Aggravated by Exposure:

Indication of the Immediate Medical Attention and Special Treatment Needed

Notes to Physician: None

## 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** Extinguish fires with CO2, extinguishing powder, foam, or water.

Special Hazards Arising from the Substance or Mixture

Hazardous Combustion Carbon dioxide, carbon monoxide

Products:

Fire / Explosion Hazards: Fine particles (such as dust and mists) may fuel fires/explosions.

Advice for Fire-Fighters

During all fire fighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

## Personal Precautions, Protective Equipment and Emergency Procedures

Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.

## **Environmental Precautions**

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

## Methods and Material for Containment and Cleaning Up

Measures for Cleaning /

Collecting:

Contain the source of spill if it is safe to do so. Collect spilled material by a method that controls dust generation. A damp cloth or a filtered vacuum should be used to clean spills of

dry solids. Clean spill area thoroughly.

**Additional Consideration for** 

Large Spills:

Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Clean up operations should only be undertaken by trained personnel.

#### 7. HANDLING AND STORAGE

#### **Precautions for Safe Handling**

Minimize dust generation and accumulation. Avoid contact with eyes, skin and clothing. Avoid breathing dust. When handling, use appropriate personal protective equipment (see Section 8). Wash hands and any exposed skin after removal of PPE. Releases to the environment should be avoided. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of process emissions of this material to the atmosphere should be controlled with dust collectors, HEPA filtration systems or other equivalent controls.

## Conditions for Safe Storage, Including any Incompatibilities

**Storage Conditions:** Store as directed by product packaging.

Specific end use(s): No data available

Material Name: Hydrocortisone Sodium Succinate for Page 4 of 9

Injection (Act-O-Vial)

Revision date: 16-May-2014 Version: 3.0

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Control Parameters**

Refer to available public information for specific member state Occupational Exposure Limits.

**Hydrocortisone Sodium Succinate** 

Pfizer OEL TWA-8 Hr: 100µg/m³, Skin

Sodium hydroxide

**ACGIH Ceiling Threshold Limit:** 2 mg/m<sup>3</sup> 2 mg/m<sup>3</sup> Australia PEAK Austria OEL - MAKs 2 mg/m<sup>3</sup> 2.0 mg/m<sup>3</sup> **Bulgaria OEL - TWA** 1 mg/m<sup>3</sup> Czech Republic OEL - TWA **Estonia OEL - TWA** 1 mg/m<sup>3</sup> France OEL - TWA 2 mg/m<sup>3</sup> **Greece OEL - TWA** 2 mg/m<sup>3</sup> **Hungary OEL - TWA** 2 mg/m<sup>3</sup> Japan - OELs - Ceilings 2 mg/m<sup>3</sup> Latvia OEL - TWA 0.5 mg/m<sup>3</sup> **OSHA - Final PELS - TWAs:** 2 mg/m<sup>3</sup> Poland OEL - TWA 0.5 mg/m<sup>3</sup> Slovakia OEL - TWA 2 mg/m<sup>3</sup> 2 mg/m<sup>3</sup> Slovenia OEL - TWA Sweden OEL - TWAs 1 mg/m<sup>3</sup> **Switzerland OEL -TWAs** 2 mg/m<sup>3</sup>

**Benzyl Alcohol** 

 Bulgaria OEL - TWA
 5.0 mg/m³

 Czech Republic OEL - TWA
 40 mg/m³

 Finland OEL - TWA
 10 ppm

 Latvia OEL - TWA
 5 mg/m³

 Lithuania OEL - TWA
 5 mg/m³

 Poland OEL - TWA
 240 mg/m³

**Analytical Method:** Analytical method available for hydrocortisone. Contact Pfizer Inc for further information.

Exposure Controls

Engineering Controls: Engineering controls should be used as the primary means to control exposures. General

room ventilation is adequate unless the process generates dust, mist or fumes. Keep airborne

contamination levels below the exposure limits listed above in this section.

Personal Protective Refer to applicable national standards and regulations in the selection and use of personal

**Equipment:** protective equipment (PPE).

Hands: Impervious gloves are recommended if skin contact with drug product is possible and for bulk

processing operations.

**Eyes:** Wear safety glasses or goggles if eye contact is possible.

Skin: Impervious protective clothing is recommended if skin contact with drug product is possible and

for bulk processing operations.

Respiratory protection: If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate

respirator with a protection factor sufficient to control exposures to below the OEL.

Mixture

**Molecular Weight:** 

#### **SAFETY DATA SHEET**

Material Name: Hydrocortisone Sodium Succinate for Page 5 of 9

Injection (Act-O-Vial)

Revision date: 16-May-2014 Version: 3.0

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:Powder plus sterile diluentColor:White to off-whiteOdor:No data available.Odor Threshold:No data available.

Molecular Formula: Mixture

Solvent Solubility:
Water Solubility:
Solubility:
PH:
Solubility:
Soluble: Water
PH:
Freezing Point (°C):
No data available
No data available
No data available
No data available
No data available.
Partition Coefficient: (Method, pH, Endpoint, Value)

Sodium phosphate, dibasic

No data available

Sodium phosphate, monobasic

No data available **Sodium hydroxide** No data available

**Hydrocortisone Sodium Succinate** 

No data available **Benzyl Alcohol**No data available

**Decomposition Temperature (°C):** No data available.

Evaporation Rate (Gram/s):

Vapor Pressure (kPa):

Vapor Density (g/ml):

Relative Density:

No data available

Flammablity:

Autoignition Temperature (Solid) (°C):

Flammability (Solids):

Flash Point (Liquid) (°C):

Upper Explosive Limits (Liquid) (% by Vol.):

Lower Explosive Limits (Liquid) (% by Vol.):

No data available
No data available

## 10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under recommended storage conditions. Solutions are unstable after 4 hours.

Possibility of Hazardous Reactions

Oxidizing Properties: No data available

**Conditions to Avoid:** Fine particles (such as dust and mists) may fuel fires/explosions. **Incompatible Materials:** As a precautionary measure, keep away from strong oxidizers

Hazardous Decomposition No data available

Products:

# 11. TOXICOLOGICAL INFORMATION

## Information on Toxicological Effects

Material Name: Hydrocortisone Sodium Succinate for Page 6 of 9

Injection (Act-O-Vial)

Revision date: 16-May-2014 Version: 3.0

#### 11. TOXICOLOGICAL INFORMATION

General Information: The information included in this section describes the potential hazards of the individual

ingredients.

Short Term: May cause eye, skin and respiratory tract irritation (based on components). May be absorbed

through the skin in harmful amounts. Central nervous system effects such as headache, dizziness, drowsiness, fatigue, and lack of muscular coordination can also occur. May cause

stomach irritation, diarrhea, nausea, or vomiting.

**Long Term:** Animal studies have shown a potential to cause adverse effects on the fetus.

Known Clinical Effects: Effects on vision have been seen during clinical use. Drugs of this class may cause Cushing's

syndrome, manifested by moon face, obesity, headache, acne, thirst, increased urination, impotence, menstrual irregularities, facial hair growth, and mental changes. Clinical use may cause an increase in blood pressure (hypertension). Individuals sensitive to this material or

other materials in its chemical class may develop allergic reactions.

## Acute Toxicity: (Species, Route, End Point, Dose)

#### Sodium hydroxide

Mouse IP LD50 40 mg/kg

#### **Hydrocortisone Sodium Succinate**

Rat Oral LD 50 5000 mg/kg

Mouse Oral LD 50 5000mg/kg

Rat Subcutaneous LD 50 449mg/kg

Mouse Subcutaneous LD 50 >500mg/kg

Rat Intraperitoneal LD 50 150mg/kg

## **Benzyl Alcohol**

Rat Oral LD50 1230 mg/kg Rat Para-periosteal LD50 53mg/kg

Rat Inhalation LC50 >4.178mg/L

Acute Toxicity Comments: A greater than symbol (>) indicates that the toxicity endpoint being tested was not achievable

at the highest dose used in the test.

#### Irritation / Sensitization: (Study Type, Species, Severity)

#### Sodium hydroxide

Eye Irritation Rabbit Severe Skin Irritation Rabbit Severe

#### **Hydrocortisone Sodium Succinate**

Eye Irritation Rabbit Minimal

#### **Benzyl Alcohol**

Eye Irritation Rabbit Severe
Skin Irritation Rabbit Moderate
Skin Irritation Guinea Pig Moderate

#### Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)

#### **Hydrocortisone Sodium Succinate**

7 Day(s) Mouse Oral 140 mg/kg/day LOAEL Thymus

4 Day(s) Mouse Subcutaneous 100 mg/kg/day LOAEL Liver

Material Name: Hydrocortisone Sodium Succinate for Page 7 of 9

Injection (Act-O-Vial)

Revision date: 16-May-2014 Version: 3.0

## 11. TOXICOLOGICAL INFORMATION

11 Day(s) Mouse Subcutaneous 62 mg/kg/day LOAEL Endocrine system 2 Week(s) Liver. Bone Marrow Mouse Subcutaneous 560 mg/kg/day LOAEL

85 Day(s) Subcutaneous 175 mg/kg/day LOAEL Adrenal gland Rat

# Reproduction & Developmental Toxicity: (Study Type, Species, Route, Dose, End Point, Effect(s))

#### **Hydrocortisone Sodium Succinate**

Reproductive & Fertility-Females Rat Oral 210 mg/kg/day LOAEL Maternal toxicity Embryo / Fetal Development Mouse Oral 10 mg/kg/day LOAEL Developmental toxicity

## Genetic Toxicity: (Study Type, Cell Type/Organism, Result)

#### **Hydrocortisone Sodium Succinate**

Bacterial Mutagenicity (Ames) Salmonella Negative In Vivo In Vitro Direct DNA Damage Rat . Mouse Positive In Vivo In Vitro Chromosome Aberration Rat, Mouse Positive Cytogenetics Negative

Mouse

None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA. **Carcinogen Status:** 

## 12. ECOLOGICAL INFORMATION

Environmental properties of the formulation have not been thoroughly investigated. Releases **Environmental Overview:** 

to the environment should be avoided.

No data available **Toxicity:** 

No data available Persistence and Degradability:

**Bio-accumulative Potential:** No data available

Mobility in Soil: No data available

## 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods:** Dispose of waste in accordance with all applicable laws and regulations. Member State

specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater.

## 14. TRANSPORT INFORMATION

The following refers to all modes of transportation unless specified below.

Not regulated for transport under USDOT, EUADR, IATA, or IMDG regulations.

HYDROCORTISONE SODIUM SUCCINATE FOR INJECTION

Material Name: Hydrocortisone Sodium Succinate for Page 8 of 9

Injection (Act-O-Vial)

Revision date: 16-May-2014 Version: 3.0

# 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Canada - WHMIS: Classifications

WHMIS hazard class:

Class D, Division 2, Subdivision A



**Hydrocortisone Sodium Succinate** 

CERCLA/SARA 313 Emission reporting

California Proposition 65

Australia (AICS):

Present

EU EINECS/ELINCS List

204-725-5

Sodium hydroxide

**CERCLA/SARA 313 Emission reporting** Not Listed 1000 lb **CERCLA/SARA Hazardous Substances** and their Reportable Quantities: 454 kg **California Proposition 65** Not Listed Inventory - United States TSCA - Sect. 8(b) Present Present Australia (AICS): Standard for the Uniform Scheduling Schedule 5 for Drugs and Poisons: Schedule 6 215-185-5 **EU EINECS/ELINCS List** 

**Benzyl Alcohol** 

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Not

Sodium phosphate, monobasic

CERCLA/SARA 313 Emission reporting

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Not

Sodium phosphate, dibasic

Material Name: Hydrocortisone Sodium Succinate for Page 9 of 9

Injection (Act-O-Vial)

Revision date: 16-May-2014 Version: 3.0

## 15. REGULATORY INFORMATION

CERCLA/SARA 313 Emission reporting

CERCLA/SARA Hazardous Substances

and their Reportable Quantities:

California Proposition 65

Inventory - United States TSCA - Sect. 8(b)

Australia (AICS):

Present

EU EINECS/ELINCS List

Not Listed

Present

2270 kg

Not Listed

Present

2270 kg

Not Listed

231-448-7

# **16. OTHER INFORMATION**

#### Text of R phrases and GHS Classification abbreviations mentioned in Section 3

Reproductive toxicity-Cat.2; H361d - Suspected of damaging the unborn child Skin corrosion/irritation-Cat.1A; H314 - Causes severe skin burns and eye damage Acute toxicity, oral-Cat.4; H302 - Harmful if swallowed Acute toxicity, inhalation-Cat.4; H332 - Harmful if inhaled

Toxic to Reproduction: Category 3

C - Corrosive Xn - Harmful

R35 - Causes severe burns.

R63 - Possible risk of harm to the unborn child. R20/22 - Harmful by inhalation and if swallowed.

**Data Sources:** Safety data sheets for individual ingredients. Pfizer proprietary drug development information.

Publicly available toxicity information.

Reasons for Revision: Updated Section 2 - Hazard Identification. Updated Section 3 - Composition / Information on

Ingredients. Updated Section 4 - First Aid Measures. Updated Section 7 - Handling and Storage. Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 10 - Stability and Reactivity. Updated Section 13 - Disposal Considerations. Updated Section 11 -

Toxicology Information. Updated Section 16 - Other Information.

Revision date: 16-May-2014

Product Stewardship Hazard Communication

Prepared by: Pfizer Global Environment, Health, and Safety Operations

Pfizer Inc believes that the information contained in this Material Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

**End of Safety Data Sheet** 

MassBiologics Boston, MA Material Safety Data Sheet MSDS-28 REV. 2 Page 1 of 6

# **MATERIAL SAFETY DATA SHEET**

## Section 1 – Identification of the Substance and Company

Product Name: Tetanus and Diphtheria Toxoids Adsorbed

Synonyms: None
Chemical Family: N/S
Intended Use: Vaccine

Company: MassBiologics
Address: 460 Walk Hill Street
Mattapan, MA 02126

617-474-3000

In case of Emergency, contact: 1-800-457-4626

# Section 2 - Hazards Identification

Signal Word: Warning

Hazard Statement: The product is a vaccine that is non-toxic and non-pathogenic. It contains

chemically inactivated toxoid proteins that were purified from bacterial

cultures. It is not considered to be toxic for humans.

EU Classification: None required
EU Hazard Symbol: None required
EU Risk Phrases: None required
EU Safety Phrases: None required

# Section 3 – Composition / Information on Ingredients

Ingredient(s):	CAS#	EC#	% (by wt)
Tetanus Toxoid	Not Assigned	Not Assigned	0.0008 g %
Diphtheria Toxoid	Not Assigned	Not Assigned	0.0008 g %
Aluminum Phosphate	7784-30-7	232-056-9	0.4 g %
Sodium Phosphate	7601-54-9	231-509-8	N/A
Aluminum Chloride	7446-70-0	231-208-1	N/A
Thimerosal	54-64-8	200-210-4	≤0.002 g%
Formaldehyde	50-00-0	200-001-8	<0.02 g%

## Section 4 - First Aid Measures

#### **Eye Contact**

May cause eye irritation, immediately flush eyes thoroughly with water for at least 15 minutes; seek medical assistance if irritation persists.

# MassBiologics Material Safety Data Sheet Title: Tetanus and Diphtheria Toxoids Adsorbed

MSDS-28 REV. 2 Page 2 of 6

#### **Skin Contact**

Remove all contaminated clothing and rinse area thoroughly with soap and water for 15 minutes; seek medical assistance if irritation develops or persists.

#### Inhalation

Remove person to fresh air. Seek medical attention if breathing becomes labored.

#### Ingestion

Never attempt to induce vomiting. Do not attempt to give any solid or liquid by mouth if the exposed subject is unconscious or semi-conscious. If the exposed subject is fully conscious, give plenty of water to drink. Obtain medical attention.

#### **Medical Conditions Aggravated by Exposure**

The purified protein components contained in this product are generally not considered to cause disease in humans; although pain, tenderness, erythema, induration, pruritus, swelling and warmth, peripheral are possible at the injection site.

#### **Notes to Physician**

Wash and clean injection site.

# **Section 5 – Fire Fighting Measures**

#### Flammability/Explosively

Not considered to be a fire hazard, although the packaging is combustible. Not considered to be explosive.

#### Extinguishing Media

Aqueous solutions are non-flammable. Use suitable extinguishing media (e.g., water, alcohol foam, dry chemical, CO2) for surrounding fire.

## **Special Fire Fighting Procedures**

For single units (packages): No special requirements needed. For larger amounts (multiple packages/pallets) of product, since toxic, corrosive or flammable vapors might evolve from fires involving product and associated packaging, full protective clothing and a self-contained breathing apparatus are recommended for firefighters or other qualified persons. Decontaminate all equipment after use and if possible, contain and collect firefighting water for later disposal.

#### **Hazardous Combustion Products**

None known from product, although toxic, corrosive or flammable thermal decomposition products from packaging are possible.

## Section 6 - Accidental Release Measures

#### Spill Protection Equipment

Wear appropriate protective clothing consistent with the degree of hazard.

## Procedures to be followed in Case of Leak or Spill

Surround spill using spill pillows or other inert absorbents. Capture remaining liquid onto spill absorbents. Place spill materials into a leak-proof container suitable for disposal. Dispose of material in a manner that is compliant with federal, state and local laws. Take precautions to prevent entry into waterways, sewers, or surface drainage systems.

MassBiologics Material Safety Data Sheet Title: Tetanus and Diphtheria Toxoids Adsorbed MSDS-28 REV. 2 Page 3 of 6

## Section 7 – Handling and Storage

#### Storage

Keep in original container, Store at 2-8 degrees C. Do Not Freeze.

#### Disposal

Dispose of used vial and unused product as a biomedical waste.

# Section 8 - Exposure Controls / Personal Protection

## Occupational Exposure Limit / Occupational Exposure Category or Band

None currently established by OSHA, NIOSH, or ACGIH.

## **Engineering Controls**

None required for normal handling.

#### **Eye Protection**

Eye protection is not needed under normal and intended conditions of product use.

#### **Respiratory Protection**

A respirator is not needed under normal and intended conditions of product use.

#### **Skin Protection**

Skin protection is not needed under normal and intended conditions of product use.

#### Other

Wash hands, face and other potentially exposed areas immediately after handling material (especially before eating, drinking, or smoking). Decontaminate all protective equipment after use. Always exercise extreme care when working with sharps/needles/syringe.

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Title: Tetanus and Diphtheria Toxoids Adsorbed Page 4 of 6

# Section 9 - Physical and Chemical Properties

**Appearance:** Homogenous milky white suspension (after shaking)

**Physical State:** Liquid Odor: N/A **Molecular Weight:** N/A pH: 6.0 **Boiling Point:** N/A **Melting Point:** N/A **Vapor Pressure:** N/A Flash Point: N/A Flammability: N/A Relative Density: N/A Partition Co-efficient: N/A **Auto ignition Temperature**: N/A Solubility in Water: N/A Other Solubility: N/A **Evaporation Rate:** N/A Specific Gravity: N/A Vapor Density: N/A **Percent Volatile:** N/A

MassBiologics
Material Safety Data Sheet
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## Section 10 - Stability and Reactivity

Stability: Chemically stable

Hazardous Polymerization: Not expected to occur
Hazardous Decomposition Products: Not expected to occur

Conditions to Avoid: Do Not Freeze

Materials to Avoid: None known

# Section 11 - Toxicological Information

Acute Toxicity: Product contains inactivated bacterial protein and is not pathogenic. Adverse

health effects are considered unlikely when the product is used as a vaccine or

administered according to label directions.

Repeat Dose Toxicity: Not considered to be toxic for humans

Target Organs: No data available

Irritation/Sensitization: No data available

**Genotoxicity:** No data available **Carcinogenicity:** No data available

Reproductive and Developmental Toxicity: No data available

# **Section 12 – Environmental Information**

No studies identified. No known significant effects or critical hazards. Local regulations and procedures should be consulted prior to environmental release.

## Section 13 - Disposal Considerations

The disposal method for rejected products/returned goods must ensure that they cannot be resold or reused. Dispose of wastes in accordance with prescribed federal, state, and local guidelines.

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## **Section 14 – Transport Information**

The MSDS should accompany all shipments for reference in the event of spillage or accidental release only authorized persons trained and competent in accordance with appropriate national and international regulatory requirements may prepare dangerous good for transport.

**Transport information:** Transportation and shipping of this product is not restricted. It has no

known significant hazards requiring special packaging or labeling for air,

maritime, US or European ground transport purposes.

# Section 15 - Regulatory Information

This MSDS complies with the requirements under 29 CFR 1910.1200 and EU guidelines.

OSHA Hazard: None required.

Canada - WHMIS Classifications: Not regulated.
California Proposition 65: Not regulated.

SARA 313:

CERCLA:

Not listed

RCRA:

Not listed

## Section 16 - Other Information

Sources of Key Data Used to Compile MSDS

MassBiologics provides this information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. MassBiologics makes no representation or warranties either express or implied, or merchantability, fitness for a particular purpose with respect to information set forth herein or to the product to which the information refers. Accordingly MassBiologics will not be responsible for damages resulting from use or reliance upon this information.

## MATERIAL SAFETY DATA SHEET

# **HOLOGIC**<sup>®</sup>

## 1. Product and Company Identification

**Material name** ThinPrep® PreservCvt Solution

Version # 003

Issue date 09-August-2013

**Revision date** Supersedes date

CAS# Mixture

**MSDS Number** 85093-001 Rev. 003

**Product use** A methanol based, buffered preservative solution used to support cells during transport and slide

preparation.

Manufacturer information

Hologic Inc. Manufacturer **Address** 250 Campus Drive

Marlborough, Massachusetts, 01752 USA

(800) 442-9892 Telephone

Contact

3E Hotline: 1-866-519-4752 Access Code: 333605 **Emergency Telephone** 

**Email** sds@hologic.com

#### 2. Hazards Identification

**Physical state** Liquid.

**Appearance** Clear, colorless liquid.

**Emergency overview DANGER** 

Flammable liquid and vapor. May be fatal if swallowed. Harmful if inhaled or absorbed through

skin. Causes skin and eye irritation. May cause central nervous system effects.

Potential health effects

Routes of exposure Ingestion. Inhalation. Skin contact. Eye contact.

**Eves** Causes eye irritation.

Skin Causes skin irritation. Harmful if absorbed through skin. Inhalation Harmful if inhaled. May cause central nervous system effects.

Ingestion May be fatal if swallowed. Even small amounts (30-250 ml methanol) may be fatal. Symptoms are

stomach ache, nausea, vomiting, dullness, visual disorder and blindness.

**Target organs** Central nervous system. Eyes. Respiratory system. Skin.

**Chronic effects** Methanol: Human exposure to methanol may result in illness, systemic poisoning, blindness, optic

> nerve damage and perhaps death, after being ingested, absorbed through the skin or inhaled. Death due to cardiac or respiratory failure has been reported in some cases from consumption of

as little as 30 mls.

Signs and symptoms Prolonged and repeated exposure to high vapor concentrations, skin absorption or ingestion of

> methanol may result in visual disturbances, metabolic acidosis, headache, giddiness, nausea, insomnia, gastric disturbance, dizziness, and slow breathing. There have been severe cases

reported of blindness, coma and death due to the ingestion of methanol.

## 3. Composition / Information on Ingredients

Components	CAS#	Percent
Water	7732-18-5	40 - 70
Methanol	67-56-1	30 - 60

**Composition comments** All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

ThinPrep® PreservCyt Solution CPH MSDS NA

#### 4. First Aid Measures

First aid procedures

Eye contact Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open

eyelids wide apart. If irritation persists: Continue flushing during transport to hospital. Take along

these instructions.

Skin contact Take off immediately all contaminated clothing. Immediately flush thoroughly with water for at least

15 minutes. Get medical attention immediately. Wash contaminated clothing before reuse.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is

difficult, give oxygen. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper

respiratory medical device. Get medical attention immediately.

Ingestion Do not induce vomiting without advice from medical personnel. Drink 1 or 2 glasses of water.

Never give anything by mouth to an unconscious person. Get medical attention immediately.

Treat for CNS depression and possible renal failure. Provide general supportive measures and Notes to physician

treat symptomatically. Symptoms may be delayed. Ethanol and fomepizole are effective antidotes

for methanol poisoning, although fomepizole is preferred.

General advice Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

## 5. Fire Fighting Measures

Flammable properties Flammable liquid and vapor. By heating and fire, toxic vapors/gases may be formed. Heat may

cause the containers to explode.

Extinguishing media

Suitable extinguishing

media

Dry chemical, foam, carbon dioxide. Water may be an ineffective extinguishing medium.

Unsuitable extinguishing

media

Do not use a solid water stream as it may scatter and spread fire.

Protection of firefighters

Specific hazards arising from the chemical

Heating will generate vapors which may form explosive vapor/air mixtures.

Protective equipment and precautions for firefighters

Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. As in any fire, wear self-contained breathing apparatus pressure-demand,

MSHA/NIOSH (approved or equivalent) and full protective gear.

Fire fighting

equipment/instructions

Evacuate area. Move containers from fire area if you can do it without risk. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Use standard firefighting procedures and consider the hazards of other involved materials. Use water spray to

cool unopened containers.

Specific methods Keep unnecessary personnel away. Use standard firefighting procedures and consider the

hazards of other involved materials.

**Hazardous combustion** 

products

Carbon monoxide. Carbon dioxide.

#### 6. Accidental Release Measures

**Personal precautions** Ensure adequate ventilation. Eliminate all ignition sources (no smoking, flares, sparks or flames in

immediate area). Wear suitable protective clothing, gloves and eye/face protection. Wear protective clothing as described in Section 8 of this safety data sheet. Follow standard emergency

procedure.

**Environmental precautions** 

Methods for containment

Prevent further leakage or spillage if safe to do so. Avoid discharge to the aquatic environment.

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Collect

spillage. Prevent entry into waterways, sewer, basements or confined areas.

remove residual contamination. Never return spills in original containers for re-use.

Methods for cleaning up Immediately contact emergency personnel. Remove sources of ignition. Beware of the explosion

danger. Absorb spillage with non-combustible, absorbent material. Clean surface thoroughly to

Other information Clean up in accordance with all applicable regulations.

ThinPrep® PreservCyt Solution

CPH MSDS NA

## 7. Handling and Storage

**Handling** Use only with adequate ventilation. Wear appropriate personal protective equipment. Observe

good industrial hygiene practices. Avoid contact with eyes, skin, and clothing. Avoid inhalation of vapors. The product is highly flammable, and explosive vapor/air mixtures may be formed even at normal room temperatures. Ground container and transfer equipment to eliminate static electric sparks. Use non-sparking hand tools and explosion-proof electrical equipment. Vapors are heavier than air and may travel along the floor and in the bottom of containers. Avoid release to the

environment.

**Storage** Follow rules for flammable liquids. Keep away from heat, spark, open flames and other sources of

ignition. Keep container tightly closed in a cool, well-ventilated place. Store away from

incompatible materials. Keep out of the reach of children.

Storage temperature:

Without cytologic sample: 59-86°F (15-30°C)

With cytologic samples, for up to six weeks: 39-99°F (4-37°C)

## 8. Exposure Controls / Personal Protection

#### Occupational exposure limits

#### **US. ACGIH Threshold Limit Values**

Components	Туре	Value
Methanol (CAS 67-56-1)	STEL	250 ppm
	TWA	200 ppm

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value
Methanol (CAS 67-56-1)	PEL	260 mg/m3
		200 nnm

## Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Туре	Value	
Methanol (CAS 67-56-1)	STEL	328 mg/m3	
		250 ppm	
	TWA	262 mg/m3	
		200 ppm	

# Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value	
Methanol (CAS 67-56-1)	STEL	250 ppm	
	TWA	200 ppm	

## Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Type	Value
Methanol (CAS 67-56-1)	STEL	250 ppm
	TWA	200 nnm

## Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Туре	Value
Methanol (CAS 67-56-1)	STEL	328 mg/m3
		250 ppm
	TWA	262 mg/m3
		200 ppm

#### Mexico. Occupational Exposure Limit Values

Components	Туре	Value	
Methanol (CAS 67-56-1)	STEL	310 mg/m3	
		250 ppm	
	TWA	260 mg/m3	
		200 ppm	

ThinPrep® PreservCyt Solution

CPH MSDS NA

**Exposure guidelines** 

Canada - Alberta OELs: Skin designation

Methanol (CAS 67-56-1) Can be absorbed through the skin.

Canada - British Columbia OELs: Skin designation

Methanol (CAS 67-56-1) Can be absorbed through the skin.

Canada - Manitoba OELs: Skin designation

Methanol (CAS 67-56-1) Can be absorbed through the skin.

Canada - Ontario OELs: Skin designation

Methanol (CAS 67-56-1) Can be absorbed through the skin.

Canada - Quebec OELs: Skin designation

Methanol (CAS 67-56-1) Can be absorbed through the skin.

Canada - Saskatchewan OELs: Skin designation

Methanol (CAS 67-56-1) Can be absorbed through the skin.

Mexico OELs: Skin designation

Methanol (CAS 67-56-1) Can be absorbed through the skin.

US - California OELs: Skin designation

Methanol (CAS 67-56-1) Can be absorbed through the skin.

**US - Tennesse OELs: Skin designation** 

Methanol (CAS 67-56-1) Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation** 

Methanol (CAS 67-56-1) Can be absorbed through the skin.

**US. NIOSH: Pocket Guide to Chemical Hazards** 

Methanol (CAS 67-56-1) Can be absorbed through the skin.

US. OSHA Table Z-1-A (29 CFR 1910.1000)

Methanol (CAS 67-56-1) Can be absorbed through the skin.

**Engineering controls** Observe occupational exposure limits and minimize the risk of exposure. Explosion-proof general

and local exhaust ventilation. Use explosion-proof equipment.

Personal protective equipment

Wear approved safety goggles. Eye / face protection

Skin protection Wear protective gloves. Be aware that the liquid may penetrate the gloves. Frequent change is

advisable. Suitable gloves can be recommended by the glove supplier. Wear appropriate clothing

to prevent repeated or prolonged skin contact.

Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate

certified respirators. In case of inadequate ventilation or risk of inhalation of vapors, use suitable

respiratory equipment.

General hygiene considerations

When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practices. Launder contaminated clothing before reuse. Observe any medical surveillance requirements.

#### 9. Physical & Chemical Properties

**Appearance** Clear, colorless liquid.

Physical state Liquid. **Form** Liquid. Color Colorless. Odor Alcohol **Odor threshold** Not available.

5.5 pН

148 °F (64.44 °C) **Boiling point** Melting point/Freezing point -55 °F (-48.33 °C)

Solubility (water) Complete

80.0 °F (26.7 °C) Closed Cup Flash point

Flammability limits in air, upper, % by volume

36 %

Flammability limits in air,

6.7 %

lower, % by volume

ThinPrep® PreservCyt Solution CPH MSDS NA **Auto-ignition temperature** 725 °F (385 °C)

> 99 % Percent volatile

# 10. Chemical Stability & Reactivity Information

**Chemical stability** Material is stable under normal conditions.

**Conditions to avoid** Heat, flames and sparks. Avoid temperatures exceeding the flash point. Contact with incompatible

materials. Confined space.

Incompatible materials Strong oxidizing agents. Reducing agents. Acids. Alkali metals. Metal powders. Potassium.

Sodium. Anhydrides. Acid chlorides. Aluminum. Magnesium.

**Hazardous decomposition** 

products

Carbon oxides. Formaldehyde.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

# 11. Toxicological Information

## Toxicological data

Components	Species	Test Results	
Methanol (CAS 67-56-1)			
Acute			
Dermal			
LD50	Rabbit	15800 mg/kg	
Inhalation			
LC50	Rat	87.5 mg/l, 6 Hours	
Oral			
LD50	Rat	5628 mg/kg	
Sensitization	Not a skin sensitizer.		
Acute effects	May cause central nervous system effects. May be fatal if swallowed. Harmful if inhaled or absorbed through skin. Causes skin and eye irritation.		
Chronic effects	Methanol: Human exposure to methanol may result in illness, systemic poisoning, blindness, optic nerve damage and perhaps death, after being ingested, absorbed through the skin or inhaled. Death due to cardiac or respiratory failure has been reported in some cases from consumption of as little as 30 mls.		
Carcinogenicity	Not classified.		
Epidemiology	No data available.		
Mutagenicity	No data available.		
Reproductive effects	The information located does not suggest that methanol is a reproductive toxin.		
Symptoms and target organs	Prolonged and repeated exposure to high vapor concentrations, skin absorption or ingestion of methanol may result in visual disturbances, metabolic acidosis, headache, giddiness, nausea, insomnia, gastric disturbance, dizziness, and slow breathing. There have been severe cases reported of blindness, coma and death due to the ingestion of methanol.		

# 12. Ecological Information

Ecoto	XICO	logical	data

Components		Species	Test Results
Methanol (CAS 67-56-1)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	> 10000 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales pron	nelas) > 100 mg/l, 96 hours
Ecotoxicity			zardous. However, this does not exclude the armful or damaging effect on the environment.
Environmental effects	An enviro	nmental hazard cannot be excluded in the	e event of unprofessional handling or disposal.
Persistence and degradability	No data a	available.	
Bioaccumulation / Accumulation	No data available.		
Partition coefficient	No data a	available.	
ThinPrep® PreservCyt Solution			CPH MSDS NA

Methanol (CAS 67-56-1)

Mobility in environmental

media

The product is water soluble and may spread in water systems. The product is a volatile substance, which may spread in the atmosphere.

-0.77

## 13. Disposal Considerations

Waste codes U154: Waste Methyl alcohol

US RCRA Hazardous Waste U List: Reference

Methanol (CAS 67-56-1) U154

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not

discharge into drains, water courses or onto the ground. Dispose in accordance with all applicable

regulations.

Waste from residues / unused

products

Do not discharge into rivers, lakes, mountains, etc. because the product may affect the

environment.

## 14. Transport Information

#### DOT

Basic shipping requirements:

UN number UN1993

Proper shipping name Flammable liquids, n.o.s. (Methanol Solution)

Hazard class 3
Packing group III

Additional information:

Special provisions B1, B52, IB3, T4, TP1, TP29

Packaging exceptions 150
Packaging non bulk 203
Packaging bulk 242

**IATA** 

UN number UN1993

**UN proper shipping name** Flammable liquid, n.o.s. (Methanol Solution)

Transport hazard class(es) 3
Packing group III
ERG code 3L

**IMDG** 

UN number UN1993

UN proper shipping name FLAMMABLE LIQUID, N.O.S. (Methanol Solution)

Transport hazard class(es) 3
Packing group III
EmS F-E, S-E

**TDG** 

UN number UN1993

Proper shipping name FLAMMABLE LIQUID, N.O.S. (Methanol Solution)

Hazard class 3
Packing group III
Marine pollutant D
Special provisions 16

## 15. Regulatory Information

#### **US federal regulations**

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Methanol (CAS 67-56-1)

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

Methanol (CAS 67-56-1) 1.0 %

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Methanol (CAS 67-56-1) Listed

ThinPrep® PreservCyt Solution CPH MSDS NA

On inventory (yes/no)\*

#### CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

Methanol: 5000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely hazardous substance (40 CFR 355, Appendix A)

SARA 311/312 Hazardous Yes

chemical

Drug Enforcement Not controlled

Administration (DEA) (21 CFR

1308.11-15)

1401 CONTROLLEG

Inventory name

Canadian regulations This product has been classified in accordance with the hazard criteria of the CPR and the MSDS

contains all the information required by the CPR.

WHMIS status Controlled

WHMIS classification B2 - Flammable Liquids

D1B - Immediate/Serious-TOXIC
D2A - Other Toxic Effects-VERY TOXIC

#### WHMIS labeling





Country(s) or region

#### Inventory status

Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

Toxic Substances Control Act (TSCA) Inventory

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# State regulations

United States & Puerto Rico

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

### US - California Hazardous Substances (Director's): Listed substance

Methanol (CAS 67-56-1) Lister

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Methanol (CAS 67-56-1) Listed.

US - California Proposition 65 - CRT: Listed date/Developmental toxin

Methanol (CAS 67-56-1) Listed: March 16, 2012 Developmental toxin.

US - New Jersey RTK - Substances: Listed substance

Methanol (CAS 67-56-1) Listed.

**US. Massachusetts RTK - Substance List** 

Methanol (CAS 67-56-1) Listed.

ThinPrep® PreservCyt Solution CPH MSDS NA

Yes

US. New Jersey Worker and Community Right-to-Know Act

Methanol (CAS 67-56-1) 500 lbs

US. Pennsylvania RTK - Hazardous Substances

Methanol (CAS 67-56-1) Listed.

Mexico regulations This safety data sheet was prepared in accordance with the Official Mexican Standard

(NOM-018-STPS-2000).

16. Other Information

HMIS® ratings Health: 1

Flammability: 3 Physical hazard: 0

**NFPA Ratings** 



Disclaimer

THE INFORMATION CONTAINED IN THIS DOCUMENT RELATES TO THIS SPECIFIC MATERIAL AND MAY NOT BE VALID IF THE MATERIAL IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY ONESELF AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR HIS OR HER OWN PARTICULAR USE.

# Amneal Pharmaceuticals Pvt. Ltd.

# **Material Safety Data Sheet**

1. PRODUCT AND CO.	MPANY IDENTIFICATION		
Product Information			
Product name	Triamcinolone Acetonide Injection (10 or 40 mg/ml)		
Version	0.0, 03/15/2016		
Jurisdiction	This Material Safety Data Sheet was prepared for the jurisdiction USA.		
Active substance	Triamcinolone Acetonide		
Synonyms	Sterile Triamcinolone Acetonide Suspension USP; Kenalog-10 Injection; Kenalog-40 Injection		
Product Uses	This material is a finished drug product for patient use. This material is used to provide relief of inflammatory and pruritic skin conditions.		
Company/Undertaking I	dentification		
Address	amneal PHARMACEUTICALS		
	Amneal Pharmaceuticals Pvt. Ltd. New Jersey United States of America		
Emergency Phone Number	1-800 For all international transportation emergencies call Collect calls accepted.		

2. COMPOSITION/INFORMATION ON INGREDIENTS					
Components	Concentration	CAS-No.			
Hazardous components					
Triamcinolone Acetonide	1 - 4 %	76-25-5			
Other ingredients	Other ingredients				
Water	90 - 100 %	7732-18-5			
Sodium Carboxymethylcellulose	<1 %	9004-32-4			
Tween 80	<1 %	9005-65-6			
Benzyl alcohol	<1 %	100-51-6			
Hydrochloric acid	<1 %	7647-01-0			
Sodium Chloride	<1 %	7647-14-5			
Sodium Hydroxide	<1 %	1310-73-2			

3. HAZARDS IDENTIFICAT	TION
Emergency Overview	
Appearance	liquid: white to off-white, suspension
Signal Word	Warning!
Hazard Statements	Teratogen May be harmful to fetus. Reproductive toxicant Target Organs: adrenal glands, bone, muscle, gastrointestinal tract, immune system, eyes, nervous system, skin, female reproductive organs, (embryo/fetus).

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Precautionary Measures  Potential Health Effects Eyes Skin Ingestion Inhalation	Avoid ingestion, inhalation, skin and eye contact. Wash hands after handling to minimize exposure. Wear suitable protective clothing and gloves. Pregnant or nursing women should avoid exposure. Prevent release to the environment.  Possible mild eye irritant  Rapidly absorbed through skin., Repeated exposure may cause skin dryness or cracking., May be harmful if absorbed through skin.  May cause damage to organs through prolonged or repeated exposure if
Eyes Skin Ingestion	Rapidly absorbed through skin., Repeated exposure may cause skin dryness or cracking., May be harmful if absorbed through skin.
Skin  Ingestion	Rapidly absorbed through skin., Repeated exposure may cause skin dryness or cracking., May be harmful if absorbed through skin.
Ingestion	dryness or cracking., May be harmful if absorbed through skin.
	May cause damage to organs through prolonged or repeated exposure if
Inhalation	swallowed.
	May cause damage to organs through prolonged or repeated exposure if inhaled.
Target Organs	adrenal glands, bone, muscle, gastrointestinal tract, immune system, eyes, nervous system, skin, female reproductive organs, (embryo/fetus)
Signs and Symptoms	Chronic: muscle weakness, muscle pain, bone fractures, infection, oedema, headache, difficulty sleeping, vertigo, restlessness, euphoria, mental disturbance, depression, anxiety, mood changes, seizure disorders, nosebleeds, cough, fever, nausea, vomiting, anorexia, gastrointestinal disturbance, sore throat, dry mouth, taste disturbance, speech difficulty, congestion, redness and swelling of eyes, vision changes, facial swelling, skin thinning, acne, redness and swelling of skin, hives, bruising, superficial burning sensation, tingling.
Medical conditions aggravated include:	diabetes, Liver disorders, infection, immunodeficiency, hypertension, myasthenia gravis, osteoporosis, peptic ulcer, psychotic disorders, colitis, kidney disorders
Environmental Effects	

4. FIRST AID MEASURES			
Eye contact	Rinse immediately with plenty of water for at least 15 minutes. Keep eye wide open while rinsing. Obtain medical attention.		
Skin contact	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Obtain medical attention. Wash contaminated clothing before re-use.		
Inhalation	Move to fresh air. Oxygen or artificial respiration if needed. Obtain medical attention.		
Ingestion	Do NOT induce vomiting. Consult a physician if necessary. Never give anything by mouth to an unconscious person.		

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4. FIRST AID MEASU	VRES
Notes to physician	This material is a finished drug product for patient use. This material is used to provide relief of inflammatory and pruritic skin conditions. This product may cause: muscle weakness, muscle pain, bone fractures, infection, oedema, headache, difficulty sleeping, vertigo, restlessness, euphoria, mental disturbance, depression, anxiety, mood changes, seizure disorders, nosebleeds, cough, fever, nausea, vomiting, anorexia, gastrointestinal disturbance, sore throat, dry mouth, taste disturbance, speech difficulty, congestion, redness and swelling of eyes, vision changes, facial swelling, skin thinning, acne, redness and swelling of skin, hives, bruising, superficial burning sensation, tingling, increase in blood pressure, Cushing's syndrome, electrolyte disturbance, hyperglycemia, adrenocortical insufficiency, withdrawal symptoms, osteoporosis, bone effects, menstrual irregularities, sperm abnormalities, cataracts, glaucoma, nose changes, otitis, peptic ulcer, psychotic disorders, pancreatitis, changes in white blood cell parameters. Organs effected may include: adrenal glands, bone, muscle, gastrointestinal tract, immune system, eyes, nervous system, skin, female reproductive organs, (embryo/fetus). Medical conditions aggravated include: diabetes, Liver disorders, infection, immunodeficiency, hypertension, myasthenia gravis, osteoporosis, peptic ulcer, psychotic disorders, colitis, kidney disorders. This product has been reported to interact with the following medications: diuretic, cyclosporine, immunosuppressants, NSAID (non-steroidal antiinflammatory drugs), drug metabolized by cytochrome P-450, drugs that cause hyperglycemia, oral hypoglycemic drugs, neuromuscular blocking agents, fluoroquinoline antibiotics, certain vaccines, drugs that inhibit cytochrome P-450. Refer to Section 11. Pregnant or nursing women should avoid exposure.
Medical Surveillance	A pre-placement physical examination and history for employees with potential exposure to this compound is recommended. Baseline testing would include: Pre-placement:, blood glucose test, a complete blood count with differential. Based on opportunity for exposure and duration of exposure a periodic follow-up examination may be considered.  Employees, who are pregnant, are breast-feeding, or who are concerned with other reproductive issues should be encouraged to consult with the occupational health physician monitoring worker's health.

5. FIRE-FIGHTING MEASURES			
Flammable Properties	Not available		
Extinguishing Media	Suitable extinguishing media: Dry chemical, Water spray, Foam		
	Unsuitable extinguishing media: Do NOT use water jet.		
Protection of Firefighters	Specific hazards: Teratogen skin absorption hazard Protective equipment: Use personal protective equipment. In the event of fire, wear self-contained breathing apparatus. Hazardous Combustion Products: carbon oxides, hydrogen halides		
Other information:	Decontaminate protective clothing and equipment before reuse. Heating can release hazardous gases. HCl gas can form flammable or explosive mixtures with alcohols or metals.		

6. ACCIDENTAL RELEASE MEASURES			
Personal precautions	Refer to protective measures listed in sections 7 and 8. Use personal protective equipment. Examples include tightly fitting safety goggles, disposable lab coat of low permeability with cuffs, double gloves and shoe covers. Wear respiratory protection. Depending on the nature of the spill (quantity and extent of spill) additional protective clothing and equipment such as a self-contained breathing apparatus may be needed.		

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6. ACCIDENTAL RELEASE MEASURES			
Environmental precautions	Prevent release to drains and waterways. Prevent release to the environment.		
Containment Methods	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).		
Cleanup Methods	Contain and collect spillage and place in container for disposal according to local regulations (see Section 13). Clean spill area with a deactivating solution (if available) followed by detergent and water after spill pick-up. Handle waste materials, including gloves, protective clothing, contaminated spill cleanup material, etc., as appropriate for chemically and pharmacologically similar materials.		

7. HANDLING AND STORAGE			
Handling Precautions	Highly potent material. Avoid exposure - obtain special instructions before use. Avoid inhalation of vapour or mist. Keep away from heat and sources of ignition. Prevent release to drains and waterways.		
Storage Conditions	Store at room temperature. ( 20 - 25°C ) Protect against light. Avoid freezing.		
Container Requirements	Store in sturdy containers appropriate to maintain the integrity of this material for its intended use.		

8. EXPOSURE CONTROLS / PERSONAL PROTECTION				
Exposure limit(s)	Company Guideline	ACGIH	OSHA	NIOSH
Triamcinolone Acetonide	1 μg/m3 (Skin), Developmental Toxicity			-
Benzyl alcohol				
Sodium Hydroxide		2 mg/m3 Ceiling	2 mg/m3 TWA	2 mg/m3 Ceiling 10 mg/m3 IDLH
Hydrochloric acid		2 ppm Ceiling	5 ppm Ceiling 7 mg/m3 Ceiling	5 ppm Ceiling 7 mg/m3 Ceiling 50 ppm IDLH
Exposure Control Band	4 The	nolone Acetonide e established company Band 4 (range 1 -20 p	exposure guideline fallag/m3).	s within Exposure
Bristol-Myers Squibb Exp Guidelines Summary	Materia guidelir	Triamcinolone Acetonide  Materials require particular care and handling. Adherence to this guideline should protect employees from experiencing the therapeutic and/or adverse effects of this drug.		
Monitoring Methods Labora			uibb AIHA accredited In See Section 4 "Notes to illance.	

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8. EXPOSURE CONTROLS / PE	ERSONAL PROTECTION
Engineering Controls and Ventilation	When handling small quantities in a clinical setting, good room ventilation is desirable. Specific engineering controls should not be needed. When handling larger quantities, such as in a manufacturing setting, ensure worker exposure is below the recommended exposure limit. If significant aerosol (mist) is generated, use process enclosures, containment technology, or other engineering controls to keep airborne levels below recommended exposure limit.
Respiratory protection	Respiratory protection is not required for normal use of this material. If the occupational exposure limit (OEL) is exceeded, wear an appropriate respirator with a protection factor sufficient to control exposures to below the OEL. Note: May cause damage to organs through prolonged or repeated exposure if inhaled.
Eye protection	Chemical splash resistant goggles should be worn when potential for splash exists.
Hand protection	Impervious nitrile, rubber and latex gloves are recommended. Please note that employees who are allergic to natural rubber latex should use nitrile gloves.
Skin and body protection	It is recommended that a laboratory coat be worn when handling product.
Hygiene	Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL I	PROPERTIES
Appearance	
Physical State	liquid
Color	white to off-white
Form	suspension
Descriptive properties	
Molecular Weight	Not available
Molecular formula	Not applicable
Bulk density	Not available
Evaporation rate	Not available
Hydrolysis/Photolysis	Not available
Hygroscopicity	Not available
Log Octanol/Water Partition	Not available
Coeff [log Kow]	
Surface Tension	Not available
Odor	Not remarkable.
Odor Threshold	Not available
pН	5 - 7
pKa	Not available
Particle Size	Not available
Solubility, Water	soluble
Specific Gravity/ Relative	1.015
density	
Viscosity	similar to water
Thermal/Stability properties	
Autoignition temperature	Not available
Boiling Point	100 °C
Thermal decomposition	Not available
Explosive Limits, LEL	Not available
Explosive limits, LEL	Not available

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9. PHYSICAL AND CHEMICAL PI	ROPERTIES
Explosiveness	Not available
Flammability	Not available
Flash point	Not available
Melting Point	0 °C
Oxidizing Potential	Not available
Vapor Properties	
Vapor Density	(Air =1): If adequate temperatures caused material to volatize, its vapor
	density would be much greater than 1. (Heavier than air)
Vapor Pressure	Not available
Saturated Vapor Concentration	Not available

10. STABILITY AND REACTIVE	TY
Stability	
Chemical Stability	Stable under normal conditions.
Conditions to avoid	Not available
Incompatible products	Not available
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions.: carbon oxides, hydrogen halides
Hazardous reactions	Not available
Sensitivity to static discharge/Di	ust exp.
Summary Statements	not applicable

11. TOXICOLOGICAL	INFORMATION
Routes of Entry	Ingestion, Inhalation, Eye contact, Skin contact
Eye irritation	Triamcinolone Acetonide Possible mild eye irritant
Skin irritation	Triamcinolone Acetonide Repeated exposure may cause skin dryness or cracking. skin thinning
Respiratory Irritation	Triamcinolone Acetonide May cause irritation of respiratory tract.
Sensitisation	Triamcinolone Acetonide Not a dermal sensitizer Allergic contact dermatitis is quite rare but has been reported.
Acute Toxicity Study	Acute Oral Triamcinolone Acetonide Oral LD50(mouse): 5,000 mg/kg  Acute toxicity (other routes of administration) Triamcinolone Acetonide LD50 (rat, subcutaneous): 13.1 mg/kg LD50 (mouse, subcutaneous): 132 mg/kg LD50 (mouse, Intraperitoneal): 105 mg/kg

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Repeated dose toxicity	Assessment Repeat Do Several studies were co generally similar with to Organs and Symptoms	ose Toxicity onducted. Results fr respect to target orga	ans and effects. See Se	
Genetic Toxicity	Triamcinolone Acetoni in vitro Ames reverse-mutation Forward gene mutation Mutagenicity Assessm Several studies were co material is not genotox	n assay negative n assay negative nent onducted. The weigl	nt of evidence demonst	rates that this
Carcinogenicity	Triamcinolone Acetoni 104 Weeks Oral rat stu [tumor organs: liv 104 Weeks Oral rat stu were observed. 104 Weeks Oral mouse tumors were obse Carcinogenicity Asses Several studies were co classifiable as to its car	dy: ver] positive dy: NOAEL = 0.00 e study: NOAEL = rved. essment onducted. The result	0.003 mg/kg No tre	ent-related tumors atment-related ositive. Not
Carcinogenicity	ACGIH	OSHA	NTP	IARC
Triamcinolone Acetonide				
Reproductive Toxicity	Triamcinolone Acetoni Assessment Reproduct Several studies were comenstrual irregularities Experience". See also effects.	etive Toxicity onducted. May impa	nclude: sperm abnorm	nalities See "Human
Developmental Toxicity	Triamcinolone Acetoni Developmental Toxici Several developmental studies. Compound ma This compound and/or to breastfed babies.	Assessment studies were conduct by be toxic during ear	rly embryonic develop	ment. Teratogen
Human experience Ex	fractures, infection euphoria, mental	nide eutic use - Symptom on, oedema, headach I disturbance, depres	ns: muscle weakness, m ne, difficulty sleeping, sion, anxiety, mood ch	vertigo, restlessness,

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11. TOXICOLOGICA	AL INFORMATION
	congestion, redness and swelling of eyes, vision changes, facial swelling, skin thinning, acne, redness and swelling of skin, hives, bruising, superficial burning sensation, tingling.  Other effects include: increase in blood pressure, Cushing's syndrome, electrolyte disturbance, hyperglycemia, adrenocortical insufficiency, withdrawal symptoms, osteoporosis, bone effects, menstrual irregularities, cataracts, glaucoma, nose changes, otitis, peptic ulcer, psychotic disorders, pancreatitis, changes in white blood cell parameters.
	Epidemiology
	Triamcinolone Acetonide Epidemiological study - Several studies have associated the development of oral clefts with exposure during pregnancy. Fetal effects include: decreased body weight.
Target Organs	<u>Triamcinolone Acetonide</u> adrenal glands, bone, muscle, gastrointestinal tract, immune system, eyes, nervous system, skin, female reproductive organs
Symptoms	Triamcinolone Acetonide See "Human Experience".
Other Toxicity Information	Not available
Other Information:	This MSDS may contain toxicological and/or pharmacological information derived

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicological Information (Aquatic)**

# **Acute Toxicity to Aquatic Invertebrates**

Triamcinolone Acetonide

EC50 (Daphnia magna, 48 H) : > 100 mg/l

# Ecotoxicological Information (Terrestrial) Not available

# **Chemical fate information**

# Biodegradation

Triamcinolone Acetonide

Ultimate aerobic biodegradation (28 D): 3 %; Not Readily Biodegradable - unlikely to undergo rapid biodegradation in the environment

from either the specified product or from compounds in the same pharmacological class.

# **Summary Statements**

## **Aquatic toxicity**

Experimental data indicate low potential for acute harm to aquatic invertebrates

#### **Chemical Fate**

Not readily biodegradable.

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13. DISPOSAL CONSIDERATIONS	5
Advice On Disposal And Packaging	Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements. This information presented only applies to the material as supplied.
Other information	Disposal by incineration is recommended.

# 14. TRANSPORT INFORMATION

This material is not a dangerous good for the purpose of transportation.

nited States of America	
OSHA Hazard Classification	Teratogen, Target Organs.
313 Toxic Release Inventory. Listed Chemicals/Compounds	No components listed on the SARA 313 inventory.
TSCA Inventory	Not listed. Food, drug and cosmetic products are exempt from TSCA.
nternational	
Canada	
WHMIS	This product is not regulated under the Hazardous Products Act and Controlled Products Regulations.  This product, however, may have significant health hazard and could meet the criteria for:  D2A Very Toxic Material Causing Other Toxic Effects
DSL/NDSL	yes
Mexico	
Mexico Classification	Health classification - Serious Hazard - 3 - Substances that can cause serious or permanent harm under emergency conditions
Europe	
EINECS/ELINCS Number	Triamcinolone Acetonide: 200-948-7 Water: 231-791-2 Benzyl alcohol: 202-859-9 Sodium Chloride: 231-598-3 Sodium Hydroxide: 215-185-5 Hydrochloric acid: 231-595-7
R-phrase(s)	Medicinal products are exempt from classification and labeling requirements under EU Preparations Directive 1999/45/E

16. OTHER INFORMATION	
MSDS preparation information	
Prepared by	Corporate Quality, Environmental Health & Safety 1-732-227-7380
Prepared on	02/15/2016
	This Safety Data Sheet has been revised. This MSDS has been
	reformatted in a new electronic system. This data sheet contains changes
	from the previous version in section(s): All.

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HMIS		Health	
	Fl	ammability	Not Determined (ND)
	]	Reactivity	Not Determined (ND)
	Personal pr	rotective equipment	See Section 8.
NFPA	Health Fire Reactivity Special	2 ND ND ND	ND ND ND

The information contained in this MSDS is believed to be accurate and represents the best information reasonably available at the time of preparation. However, we make no warranty, express or implied, with respect to such information. and we assume no liability from its use.



# Material Safety Data Sheet for Sanofi Pasteur Vaccines and Biologics

Contact: Customer Service – 1-800-822-2463 Effective Date: February 3, 2011

# **NFPA Rating (0,0,0)**

## **Product:**

ActHIB<sup>®</sup>, Haemophilus b Conjugate Vaccine (Tetanus Toxoid Conjugate)

ADACEL®, Tetanus Toxoid, Reduced Diphtheria Toxoid and Acellular Pertussis Vaccine Adsorbed

DAPTACEL®, Diphtheria and Tetanus Toxoids and Acellular Pertussis Vaccine Adsorbed

DECAVAC®, Tetanus and Diphtheria Toxoids Adsorbed (For 7 years of age and older)

DT, Diphtheria and Tetanus Toxoids Adsorbed USP (For Pediatric Use up to 7 years of age)

Fluzone<sup>®</sup>, Influenza Virus Vaccine (All presentations)

Imogam® Rabies-HT, Rabies Immune Globulin (Human) USP Heat Treated

IMOVAX® RABIES, Rabies Vaccine

IPOL®, Poliovirus Vaccine Inactivated

Menactra®, Meningococcal (Groups A, C, Y and W-135) Polysaccharide Diphtheria Toxoid Conjugate Vaccine

Menomune®-A/C/Y/W-135, Meningococcal Polysaccharide Vaccine, Groups A, C, Y and W-135 Combined

Pentacel<sup>®</sup>, Diphtheria and Tetanus Toxoids and Acellular Pertussis Adsorbed, Inactivated Poliovirus and Haemophilus b Conjugate (Tetanus Toxoid Conjugate) Vaccine

**Tetanus Toxoid Adsorbed** 

TheraCys<sup>®</sup>, BCG Live (Intravesical)

Tripedia<sup>®</sup>, Diphtheria and Tetanus Toxoids and Acellular Pertussis Vaccine Adsorbed

**Tubersol®**, **Tuberculin Purified Protein Derivative (Mantoux)** 

Typhim Vi®, Typhoid Vi Polysaccharide Vaccine

YF-VAX<sup>®</sup>, Yellow Fever Vaccine

Diluent:

Diluent for reconstitution of ActHIB vaccine

Diluent for reconstitution of IMOVAX RABIES vaccine

Diluent for reconstitution of Menomune vaccine

Diluent for reconstitution of TheraCys BCG

Diluent for reconstitution of YF-VAX vaccine

We have conducted a hazard evaluation of the constituents of the above products in accordance with OSHA's Hazard Communication Standard [29 CFR 1910.1200(d)]. It has been determined that the product or diluent ingredients do not pose a physical or health hazard at the percentages present in the mixtures based on the guidelines set by OSHA's Hazard Communication Standard. Therefore, as of this date, we are not required under OSHA Federal Regulations to distribute a Material Safety Data Sheet for these products.

For more information concerning product safety refer to the prescribing information or call Customer Service at the phone number listed above.

Sanofi Pasteur Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. Sanofi Pasteur Inc. makes no representations, or warranties, either express or implied, of merchantability, fitness for a particular purpose with respect to the information set forth herein or to the product to which the information refers. Accordingly, Sanofi Pasteur Inc. will not be responsible for damages resulting from use of or reliance upon this information.

### **SAFETY DATA SHEET**



# **Virex TB Ready-To-Use Disinfectant Cleaner**

Version Number: 1 Preparation date: 2014-10-09

## 1. IDENTIFICATION

Product name: Virex TB Ready-To-Use Disinfectant Cleaner

**Product Code:** 04743 **SDS #:** MS0800547

Recommended use: • Industrial/Institutional

Disinfectant

• This product is intended to be used neat.

Uses advised against: Uses other than those identified are not recommended

Manufacturer, importer, supplier:Canadian HeadquartersUS HeadquartersDiversey, Inc. - Canada

Diversey, Inc. 8310 16th St.

Sturtevant, Wisconsin 53177-1964

Emergency telephone number:

Phone: 1-888-352-2249

MSDS Internet Address: www.diversey.com

Diversey, Inc. - Canada 3755 Laird Road Mississauga, Ontario L5L 0B3 Phone: 1-800-668-3131

1-800-851-7145 (U.S.); 1-651-917-6133 (Int'I)

#### 2. HAZARDS IDENTIFICATION

#### Classification for the undiluted product

Serious eye damage/eye irritation Category 2A



Signal Word: Warning

# Precautionary Statements

#### CAUSES SERIOUS EYE IRRITATION.

Avoid contact with eyes, skin and clothing. Wash affected areas thoroughly after handling. May cause irritation to mouth, throat and stomach. Wear chemical-splash goggles and chemical-resistant gloves. IF SWALLOWED: Rinse mouth. Drink a cupful of milk or water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists: Get medical advice or attention. Dispose of in accordance with all federal, state and local applicable regulations. SUPPLEMENTAL INFORMATION. May be mildly irritating to skin. In case of contact, immediately flush with plenty of water. If irritation occurs and persists, get medical attention.

<u>Health hazards not otherwise classified (HHNOC)</u> - Not applicable <u>Physical hazards not otherwise classified (PHNOC)</u> - Not applicable



Classification for the diluted product @ RTU

This product is intended to be used neat.

#### **Precautionary Statements**

See undiluted product information above

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### **Classified Ingredients**

Ingredient(s)	CAS#	Weight %
Diethylene glycol butyl ether	112-34-5	5 - 10%
Tetrasodium salt of EDTA	64-02-8	1% - < 3%
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride	68391-01-5	> 0.1% - < 1%
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	68956-79-6	> 0.1% - < 1%

<sup>\*</sup>Exact percentages are being withheld as trade secret information

# 4. FIRST AID MEASURES

#### **Undiluted Product:**

**Eyes:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists: Get medical advice/attention.

Skin: In case of contact, immediately flush with plenty of water. If irritation occurs and persists, get medical attention.

Inhalation: No specific first aid measures are required.

Ingestion: IF SWALLOWED: Rinse mouth. Drink a cupful of milk or water.

Most Important Symptoms/Effects: No information available.

Immediate medical attention and special treatment needed Not applicable.

Aggravated Medical Conditions: Persons with pre-existing skin disorders may be more susceptible to irritating effects.

#### **Diluted Product:**

This product is intended to be used neat.

Eyes: See undiluted product information above.

Skin: See undiluted product information above.

Inhalation: See undiluted product information above.

Ingestion: See undiluted product information above.

# **5. FIRE-FIGHTING MEASURES**

Specific methods: No special methods required

Suitable extinguishing media: The product is not flammable. Extinguish fire using agent suitable for surrounding fire.

**Specific hazards:** Not applicable.

Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Extinguishing media which must not be used for safety reasons: No information available.

## **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions: Environmental precautions and clean-up methods: Put on appropriate personal protective equipment (see Section 8.).

Clean-up methods - large spillage. Soak up with inert absorbent material. Sweep up and shovel into

suitable containers for disposal. Use a water rinse for final clean-up.

# 7. HANDLING AND STORAGE

**Handling:** Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Do not taste or swallow. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

Storage:

Protect from freezing. Keep tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

Aerosol Level (if applicable): Not applicable

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Exposure Guidelines:**

Ingredient(s)	CAS#	ACGIH	OSHA
Diethylene glycol butyl ether	112-34-5	10 ppm (TWA)	-
Tetrasodium salt of EDTA	64-02-8	-	-
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	68956-79-6	-	-
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride	68391-01-5	-	-

#### **Undiluted Product:**

#### Engineering measures to reduce exposure:

No special ventilation requirements General room ventilation is adequate

Personal Protective Equipment

Eye protection: Chemical-splash goggles. Hand protection: Chemical-resistant gloves.

Skin and body protection: No special requirements under normal use conditions. Respiratory protection: No special requirements under normal use conditions.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

#### **Diluted Product:**

This product is intended to be used neat.

Personal Protective Equipment

Eye protection: Chemical-splash goggles. Hand protection: Chemical-resistant gloves.

Skin and body protection: No special requirements under normal use conditions. Respiratory protection: No special requirements under normal use conditions.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical State: Liquid Color: Clear, Colorless Evaporation Rate: No information available Odor: Lemon Citrus

Odor threshold: No information available. Boiling point/range: Not determined

Melting point/range: Not determined Decomposition temperature: Not determined

Autoignition temperature: No information available Solubility: Completely Soluble

Solubility in other solvents: No information available Relative Density (relative to water): 1.012 Density: 8.44 lbs/gal 1.012 Kg/L Vapor density: No information available Bulk density: No information available Vapor pressure: No information available.

Flash point: > 200 °F > 93.3 °C

Dilution Flash Point: > 200 °F > 93.3 °C Partition coefficient (n-octanol/water): No information available

Viscosity: No information available

Elemental Phosphorus: 0 % by wt. VOC: 0.06 %

VOC % by wt. at use dilution 0.06 % \* **pH:** 12.2 Dilution pH: 12.2 @ RTU Flammability (Solid or Gas): Not applicable

Metal Corrosion: Not determined

Explosion limits: - upper: Not determined - lower: Not determined

# 10. STABILITY AND REACTIVITY

Reactivity: Not Applicable The product is stable Stability: Nitrogen oxides (NOx). Hazardous decomposition products: Acids. Oxidizing agents. Materials to avoid: No information available. Conditions to avoid:

<sup>\* -</sup> Title 17, California Code of Regulations, Division 3, Chapter 1, Subchapter 8.5, Article 2, Consumer Products, Sections 94508

#### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure:

Eye contact, Skin contact, Inhalation

Delayed, immediate, or chronic effects and symptoms from short and long-term exposure

Skin contact: May be mildly irritating to skin. Symptoms may include redness and/or transient discomfort.

Eye contact: Causes serious eye irritation. Symptoms may include pain, redness, and watering.

Ingestion: May be irritating to mouth, throat and stomach. Symptoms may include stomach pain and nausea.

Inhalation: May be irritating to nose, throat, and respiratory tract. Symptoms may include coughing and difficulty breathing.

Sensitization: No known effects.

Numerical measures of toxicity

ATE - Oral (mg/kg): >5000 ATE - Inhalatory, mists (mg/l): >20

## 12. ECOLOGICAL INFORMATION

Ecotoxicity: No information available.

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

## 13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: PESTICIDAL WASTE - Observe all applicable Federal/Provincial/State regulations and Local/Municipal ordinances regarding disposal of pesticide wastes. This product, as sold, if discarded or disposed, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Dispose in compliance with all Federal, state, provincial, and local laws and regulations.

Contaminated Packaging: Do not re-use empty containers. RCRA Hazard Class (undiluted product): Not Regulated

#### 14. TRANSPORT INFORMATION

**DOT/TDG/IMDG:** Please refer to the Diversey HazMat Library, only available through Internet Explorer, http://naextranet.diversey.com/dot/, for up to date shipping information.

DOT (Ground) Bill of Lading Description: DISINFECTANTS

IMDG (Ocean) Bill of Lading Description: DISINFECTANTS

#### 15. REGULATORY INFORMATION

# International Inventories at CAS# Level

All components of this product are listed on the following inventories: U.S.A. (TSCA).

# U.S. Regulations

EPA Reg. No.: 70627-2

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

CAUTION: Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling. ENVIRONMENTAL HAZARDS: This product is toxic to fish and aquatic invertebrates.

California Proposition 65: This product is not subject to the reporting requirements under California's Proposition 65.

#### **RIGHT TO KNOW (RTK)**

Ingredient(s)	CAS#	MARTK:	NJRTK:	PARTK:	RIRTK:
Water	7732-18-5	-	-	-	-
Diethylene glycol butyl ether	112-34-5	-	Х	-	-
Tetrasodium salt of EDTA	64-02-8	-	-	-	-
Alcohol ethoxylates	68131-39-5	-	-	-	-
Sodium metasilicate	6834-92-0	-	-	-	-
n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chloride	68391-01-5	-	-	-	-
n-Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	68956-79-6	-	-	-	-

#### **CERCLA/ SARA**

Ingredient(s)	CAS#	Weight %	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)	Section 313
Diethylene glycol butyl ether	112-34-5	5 - 10%			Х

Ingredient(s)	CAA HAP	CAA ODS	CWA Priority Pollutants
Diethylene glycol butyl ether	X		

#### SARA 311/312 Hazard Categories

Immediate: Delayed: Fire: Reactivity: Sudden Release of Pressure:

WHMIS hazard class: Not for sale in Canada.

Ingredient(s)	CAS#	NPRI
Diethylene glycol butyl ether	112-34-5	X

# **16. OTHER INFORMATION**

NFPA (National Fire Protection Association)
Rating Scale: (Low Hazard) 0 - 4 (Extreme Hazard)

Health 2 Flammability 0 Instability 0

Version Number: 1

Preparation date: 2014-10-09

Not applicable NAPRAC Reason for revision: Prepared by:

Additional advice: • Contains an added fragrance, see "Odor" heading in section 9 for specific description

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