

**Section 1 - Product Identification**

**ZEE MEDICAL, INC.**

22 Corporate Park, Irvine, CA 92606  
800/841-8417

**Emergency Phone No. (CHEMTREC): 800/424-9300**

**Product Name: Instant Ice Pack**

#2323, 2324, 2353, 2354

**Section 2 - Information on Ingredients**

<u>INGREDIENT</u>	<u>%</u>	<u>CAS NUMBER</u>	<u>PEL, OSHA (mg/M<sup>3</sup>)</u>	<u>TLV, ACGIH (mg/M<sup>3</sup>)</u>
Solid Granules: Ammonium Nitrate	90	6484-52-2	N/E	N/E
Liquid: Water	100	7732-18-5	N/E	N/E

**Section 3 - Hazards Identification**

**Emergency Overview**

**DANGER!** Strong oxidizer. Contact with other material may cause a fire. May cause eye, skin and respiratory tract irritation. May cause methemoglobinemia.

**Hazard Ratings**

NFPA Hazard Rating: Health: 2 Flammability: 0 Reactivity: 3 Special Hazard: OX

HMIS Hazard Rating: Health: 2 Flammability: 0 Reactivity: 3

**Potential Health Effects**

**Eye:** Causes eye irritation.

**Skin:** May cause skin irritation.

**Ingestion:** Ingestion of large amounts may cause gastrointestinal irritation. Methemoglobinemia is characterized by dizziness, drowsiness, headache, breath shortness, cyanosis with bluish skin, rapid heart rate and chocolate-brown colored blood.

**Inhalation:** May cause methemoglobinemia, cyanosis, convulsions, tachycardia, dyspnea (labored breathing), and death. May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema. Methemoglobinemia is characterized by dizziness, drowsiness, headache, breath shortness, cyanosis with bluish skin, rapid heart rate and chocolate-brown blood. Inhalation can cause systemic acidosis and methemoglobinemia.

**Chronic:** May cause methemoglobinemia, which is characterized by chocolate-brown colored blood, headache, weakness, dizziness, breath shortness, cyanosis (bluish skin due to deficient oxygenation of blood), rapid heart rate, unconsciousness and possible death. May cause digestive tract disturbances.

**Section 4 - First Aid Measures**

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:** Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if redness or irritation persists.

**Ingestion:** If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Contact a Poison Control Center. Get medical aid.

**Inhalation:** Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Section 5 - Fire Fighting Measures**

**General Information:** Strong oxidizer. Contact with combustible materials may cause a fire. Wear appropriate protective clothing to prevent contact with skin and eyes. Wear a self-contained breathing apparatus (SCBA) to prevent contact with thermal decomposition products. May explode under confinement and high temperatures, especially if contaminated. Exposure to yellow or brown fumes from fire requires medical attention.

**Extinguishing Media:** Use water spray to cool fire-exposed containers. Use flooding quantities of water.

**Flash Point:** Not available

**Autoignition Temperature:** Not applicable

**Explosion Limits, Lower:** Not available

**Upper:** Not available

**NFPA Rating:** Health: 2, Flammability: 0, Reactivity: 3, Special Hazard: OX

### Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions given in Section 8. Avoid generating dusty conditions. Remove all sources of ignition.

### Section 7 - Handling and Storage

**Handling:** Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Avoid contact with heat, sparks and flame. Avoid contact with clothing and other combustible materials. Avoid ingestion and inhalation. Keep away from clothing and other combustible materials. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

**Storage:** Keep away from sources of ignition. Store in a cool, dry, well-ventilated area. Keep away from flammable or combustible materials, acids, reducing agents and alkaline substances.

### Section 8 - Exposure Controls, Personal Protection

#### Engineering Controls

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

#### Personal Protective Equipment

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

**Skin:** Wear appropriate gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

### Section 9 - Physical and Chemical Properties

**Physical State:** solid

**Appearance:** white to gray to brown

**Odor:** odorless

**pH:** 5.4 (0.1 M solution)

**Vapor Pressure:** Negligible

**Evaporation Rate:** Negligible

**Boiling Point:** decomposes at 410 deg F

**Freezing/Melting Point:** 338 deg F

**Autoignition Temperature:** Not applicable

**Flash Point:** Not available

**Decomposition Temperature:** 210 deg C

**Explosion Limits, Lower:** Not available

**Upper:** Not available

**Solubility:** 118% at 0 C

**Specific Gravity/Density:** 1.725 @ 25°C

### Section 10 - Stability and Reactivity

**Chemical Stability:** Stable. However, may decompose if heated.

**Conditions to Avoid:** Excess heat, combustible materials, organic materials, reducing agents, strong acids, powdered metals.

**Incompatibilities with Other Materials:** Incompatible with acetic acid, aluminum, ammonium chloride, bleach, cadmium, carbon, chlorides, chromium cobalt, copper, lead, magnesium, copper sulfate, potassium chlorate, powdered metals, nickel, organic matter, phosphorus, potassium and ammonium sulfate, sodium, sodium hypochlorite, sodium perchlorate, sulfur, and zinc

**Hazardous Decomposition Products:** Oxides of nitrogen

**Hazardous Polymerization:** Has not been reported

### Section 11 - Toxicological Information

**LD50/LC50:** Oral, rat: LD50 = 2217 mg/kg

**Carcinogenicity:** Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA

**Epidemiology:** No data available

**Teratogenicity:** No data available

**Reproductive Effects:** No data available

**Neurotoxicity:** No data available

**Mutagenicity:** No data available

**Other Studies:** No data available

**Section 12 - Ecological Considerations**

No information available.

**Section 13 - Disposal Considerations**

**Disposal:** Dispose of in accordance with local, state and federal regulations. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** Not listed

**RCRA U-Series:** Not listed

**Section 14 - Transport Information****US DOT**

**Shipping Name:** Ammonium Nitrate

**UN Number:** UN1942

**Hazard Class:** 5.1

**Packing Group:** III

Eligible for the Limited Quantity and ORM-D exceptions.

**Canada TDG**

**Shipping Name:** Ammonium Nitrate

**UN Number:** UN1942

**Hazard Class:** 5.1

**Packing Group:** III

Eligible for the Limited Quantities exemption.

**Section 15 - Regulatory Information****US FEDERAL**

**TSCA** CAS# 6484-52-2 is listed on the TSCA inventory

**Health & Safety Reporting List** None of the chemicals are on the Health & Safety Reporting List

**CERCLA Hazardous Substances** None of the chemicals in this material have an RQ

**SARA Section 302 Extremely Hazardous Substances** None of the chemicals in this product have a TPQ.

**SARA Codes** CAS # 6484-52-2: immediate, fire, reactive.

**Section 313** This material contains Ammonium nitrate (listed as Water Dissociable Nitrate Compounds), > 98%, (CAS# 6484-52-2) which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

**Clean Air Act:** This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

**Clean Water Act:** None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

**OSHA:** None of the chemicals in this product are considered highly hazardous by OSHA.

**STATE**

CAS# 6484-52-2 can be found on the following state right to know lists: New Jersey, Pennsylvania, Massachusetts

**California Prop 65** California No Significant Risk Level: None of the chemicals in this product are listed.

**CANADA**

**Canada - DSL/NDSL** CAS# 6484-52-2 is listed on Canada's DSL List.

**Canada - WHMIS** This product has a WHMIS classification of C, D2B. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

**Canadian Ingredient Disclosure List** CAS# 6484-52-2 is not listed on the Canadian Ingredient Disclosure List.

**Section 16 - Other Information**

**Last Updated:** 12/3/12

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall ZEE Medical be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, even if ZEE Medical has been advised of the possibility of such damages.*



# MATERIAL SAFETY DATA SHEET

MSDS: 703  
REV. DATE: 2/12  
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## Section I - PRODUCT IDENTIFICATION

### ZEE MEDICAL, INC.

22 Corporate Park  
Irvine, CA 92606  
800/841-8417  
Emergency Phone No. (CHEMTREC): 800/424-9300

TRADE NAME: **Insect Sting Relief Wipes**  
#2632

## Section II - HAZARDOUS INGREDIENTS

<u>INGREDIENT</u>	<u>%</u>	<u>CAS NUMBER</u>	<u>PEL, OSHA (ppm)</u>	<u>TLV, ACGIH (ppm)</u>
Isopropyl alcohol	60	67-63-0	400	400
Benzocaine	6	94-09-7	N/E	N/E
Other Non-Hazardous Ingredients	34	N/A	N/E	N/E

## Section III - PHYSICAL DATA

Boiling Point: 178 F

Specific Gravity: 0.905

Vapor Pressure: (mm Hg): N/A

Melting Point: N/A

Vapor Density: N/A

Evaporation Rate: N/A

Solubility In Water: Miscible

Appearance and Odor: Pad saturated with clear, colorless liquid; alcohol odor.

## Section IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: 82 F Closed Cup

Extinguishing Media: Foam, carbon dioxide, dry chemical.

Special Fire Fighting Procedures: None

Unusual Fire and Explosion Hazards: None

NFPA Hazard Rating: Health: 1 Flammability: 3 Reactivity: 0 Special: N/A

HMIS Hazard Rating: Health: 1 Flammability: 3 Reactivity: 0

Hazard Index: 4=Severe, 3=Serious, 2=Moderate, 1=Slight, 0=Minimal

**Section V - HEALTH HAZARD DATA**

Primary Routes of Entry: Eye Contact, Inhalation, Ingestion, Skin Contact.

Health Hazards: Eye contact may result in irritation and redness of eyes. Inhalation may cause irritation of nasal passages and throat. Ingestion may cause gastric disturbances and intoxication. Prolonged skin contact may result in skin irritation.

Carcinogenicity: NTP: NO IARC: NO OSHA: NO

Emergency First Aid Procedures: Eye Contact: flush immediately with large amounts of water. If redness or irritation persists, contact a physician. Inhalation: Move to fresh air at once. If breathing has stopped, perform artificial respiration and contact a physician immediately. Ingestion: Contact a physician immediately.

**Section VI - REACTIVITY DATA**

Stability: Stable

Hazardous Decomposition Products: Toxic gases may be generated during fire.

Hazardous Polymerization: Will not occur

Incompatibilities: Oxidizing agents.

**Section VII - SPILL AND DISPOSAL PROCEDURES**

Spill: Eliminate all ignition sources. Pick up swabs and transfer to suitable waste disposal container. Flush spill area with water.

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

**Section VIII - SAFE HANDLING AND USE INFORMATION**

Respiratory Protection: If TLV or PEL is exceeded, use NIOSH approved supplied-air respirator.

Ventilation: General mechanical. Local exhaust may be required if TLV or PEL is exceeded.

Protective Equipment: Eye protection and protective clothing as necessary to prevent excessive contact.

**Section IX - SPECIAL PRECAUTIONS**

None

N/A = Not applicable  
N/E = Not established

# MATERIAL SAFETY DATA SHEET

May be used to comply with OSHA's Hazard Communication Standard 29 CFR 1910.1200. Standard must be consulted for specific requirements.	<b>HMIS HAZARD RATING</b>												
<b>SAFETEC OF AMERICA</b>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">HEALTH</td> <td style="width: 33%;">1</td> <td style="width: 33%;">0 = INSIGNIFICANT</td> <td style="width: 33%;">3 = HIGH</td> </tr> <tr> <td>FLAMMABILITY</td> <td>0</td> <td>1 = SLIGHT</td> <td>4 = EXTREME</td> </tr> <tr> <td>REACTIVITY</td> <td>0</td> <td>2 = MODERATE</td> <td></td> </tr> </table>	HEALTH	1	0 = INSIGNIFICANT	3 = HIGH	FLAMMABILITY	0	1 = SLIGHT	4 = EXTREME	REACTIVITY	0	2 = MODERATE	
HEALTH	1	0 = INSIGNIFICANT	3 = HIGH										
FLAMMABILITY	0	1 = SLIGHT	4 = EXTREME										
REACTIVITY	0	2 = MODERATE											

## SECTION 1 - PRODUCT / COMPANY IDENTIFICATION

IDENTITY (AS USED ON LABEL AND LIST) <b>Safetec® First Aid Burn Cream</b>		Page 1 of 2
MANUFACTURER'S NAME Safetec of America, Inc.	EMERGENCY TELEPHONE NUMBER (24 Hours) (800) 255-3924	
ADDRESS (NUMBER, STREET, P.O. BOX) 887 Kensington Ave.	TELEPHONE NUMBER FOR INFORMATION (716) 895-1822	
(CITY, STATE AND ZIP CODE) Buffalo, NY 14215	DATE PREPARED SUPERSEDES	September 19, 2012 September 1, 2011

## SECTION 2 - HAZARDS IDENTIFICATION

ROUTES OF ENTRY - SIGNS AND SYMPTOMS OF EXPOSURE	
SKIN: No adverse conditions expected.	
INHALATION: Unlikely route of exposure.	
EYES: May cause irritation, characterized by a burning sensation, redness, tearing, inflammation, dryness, and possible other effects.	
INGESTION: May cause irritation of the digestive tract.	
HEALTH HAZARDS (ACUTE):	Acute effects are possible irritation and discomfort.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Preexisting skin, or eye disorders may become aggravated through prolonged exposure.	

## SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS  (SPECIFIC CHEMICAL IDENTITY; COMMON NAME(S))	CAS #	% (wt.)  (OPTIONAL)	OSHA PEL/STEL	ACGIH TLV/TWA/STEL
			PPM	MG/M <sup>3</sup>
Lidocaine HCl	50-03-3	0.5	None Established	None Established
Benzalkonium Chloride	68391-01-5	0.13	None Established	None Established
Ethyl Alcohol	64-17-5	Proprietary	None Established	None Established
Germaben II	No information Available	Proprietary	None Established	None Established

This product is not known to contain a substance subject to Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR 372 at or above minimal amounts.

## SECTION 4 - FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES	
SKIN: No adverse conditions expected	
INHALATION: None expected.	
EYES: Flush eyes with water for a minimum of 15 minutes while holding eyelids open; if irritation persists seek medical attention.	
INGESTION: Contact a physician immediately.	

## SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT (METHOD USED) Not applicable	FLAMMABLE LIMITS (% Volume in Air for Lowest Flashing Component)	
	LEL: Not Applicable	UEL: Not Applicable
EXTINGUISHING MEDIA Use extinguishing media appropriate for the surrounding fire. Use water spray, foam or dry chemicals.		
SPECIAL FIRE FIGHTING PROCEDURES DO NOT enter confine fire space without full bunker gear (Helmet with face shield, bunker coats, gloves and rubber boots.) Wear NIOSH/MSHA approved self contained breathing apparatus. Cool fire exposed containers with water.		
UNUSUAL FIRE AND EXPLOSIVE HAZARDS Carbon monoxide and carbon dioxide may be generated.		

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED Spills should be collected with approved inert absorbent for disposal. Use suitable disposal containers.
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## SECTION 7 - HANDLING AND STORAGE

Handling: Keep this and other chemicals out of reach of children. Storage: Do not store or mix with strong acids or oxidizers.

## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION Ordinary, none required	VENTILATION LOCAL EXHAUST: None Required MECHANICAL (GENERAL): No
PROTECTIVE GLOVES Ordinary, none required	EYE PROTECTION As necessary to prevent excessive contact.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT Ordinary, none required	WORK/HYGIENIC PRACTICES Practice safe work habits. Use according to label instructions.

## SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT 135°C 275°F	SPECIFIC GRAVITY (WATER = 1) 0.99
VAPOR PRESSURE (mm Hg) No data	MELTING POINT 60°C (140°F)
VAPOR DENSITY (AIR = 1) No data	pH (1% solution in water) No data
SOLUBILITY IN WATER Miscible	EVAPORATION RATE (IPA = 1) 0.07
APPEARANCE AND ODOR White to Off-white Homogenous Cream	% VOLATILES (BY VOLUME) 65

**MATERIAL SAFETY DATA SHEET**

IDENTITY (AS USED ON LABEL AND LIST)

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Safetec® First Aid Burn Cream

Date: September 19, 2012

**SECTION 10 - STABILITY AND REACTIVITY**

STABILITY	UNSTABLE:		CONDITIONS TO AVOID
	STABLE:	XXX	Extreme temperatures

**INCOMPATIBILITIES (MATERIALS TO AVOID)**

Strong oxidizing agents, strong acids

**HAZARDOUS DECOMPOSITION OR BYPRODUCTS**

Decomposition will not occur if handled / stored properly. Thermal decomposition may produce carbon monoxide, small amounts of nitrogen oxides, halogenated compounds or propionaldehyde may also be formed.

HAZARDOUS POLYMERIZATION	MAY OCCUR:		CONDITIONS TO AVOID
	WILL NOT OCCUR:	XXX	None known

**SECTION 11 - TOXICOLOGICAL INFORMATION**

Component analysis - LC50: N/A

Component analysis - LD50: N/A

Effects of acute exposure: Possible irritation and discomfort.

Sensitization: Non-hazardous by WHMIS/OSHA criteria.

Chronic Effects: possible with the ingestion of large amounts to the nervous system. Do not use on abraded skin. Prolonged or repeated exposure may irritate eyes.

Carcinogenicity: Non-hazardous by WHMIS/OSHA criteria.

Mutagenicity: Non-hazardous by WHMIS/OSHA criteria.

Reproductive Effects: Non-hazardous by WHMIS/OSHA criteria.

Teratogenicity: Non-hazardous by WHMIS/OSHA criteria.

**SECTION 12 - ECOLOGICAL INFORMATION**

Component analysis - LC50: N/A

Component analysis - LD50: N/A

Ecotoxicity: N/A

Environmental Effects: N/A

Aquatic Toxicity: N/A

Persistence / degradability: N/A

Bioaccumulation / accumulation: N/A

Partition coefficient: N/A

Mobility in environmental media: N/A

Chemical fate information: N/A

Other adverse effects: N/A

**SECTION 13 - DISPOSAL CONSIDERATIONS**

Dispose of in accordance with Local, State, and Federal regulations. Products classified as non-hazardous may become hazardous waste upon contact with other products. Refer to "40 CFR Protection of Environment Parts 260-299" for complete waste disposal regulations. Consult your Local, State, or Federal Environmental Protection Agency before disposing of any chemicals.

Waste from residues/unused product: N/A

Contaminated Packaging: N/A

**SECTION 14 - TRANSPORTATION INFORMATION**

PROPER SHIPPING NAME	First Aid Cream		
HAZARD CLASS/PKG. GRP.	Not Applicable	REF.	Not Applicable
IDENTIFICATION NUMBER	Not Applicable	LABEL	None Required Ground

**SECTION 15 - REGULATORY INFORMATION**

Canadian Federal Regulation: N/A

US Federal Regulation: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

**Occupational Safety and Health Administration (OSHA)**

29 CFR 1910.1200 hazardous chemical- Yes

CERCLA (Superfund) reportable quantity - N/A

Superfund Amendments and Reauthorization Act of 1986 (SARA) - N/A

Clean Air Act (CAA) - N/A

Clean Water Act (CWA) - N/A

Safe Drinking Water Act (SDWA) - N/A

Drug Enforcement Agency (DEA) - N/A

Food and Drug Administration (FDA) - N/A

WHMIS classification - N/A

State regulations - N/A

Inventory Name - N/A

**SECTION 16 - OTHER INFORMATION**

The information contained herein is believed to be accurate but is not warranted to be so. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.

Date Prepared: September 19, 2012

## 1. Product and Company Identification

<b>Product Name</b>	<b>PDI Alcohol Prep Pads/ Swabsticks (1's &amp; 3's)</b>	<b>MSDS0086</b>
<b>CAS #</b>	Mixture	
<b>Product use</b>	Topical Skin Cleanser	
<b>Manufacturer</b>	Professional Disposables International, Inc. Two Nice-Pak Park Orangeburg, NY 10962-1376 or Distributed by: Professional Disposables International Ltd. Ontario CA Phone (USA) 1-845-365-1700 (M-F 8am - 5pm) Phone (CANADA) 1-800-263-7067	

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	* 1
Flammability	3
Physical Hazard	0
Personal Protection	



## 2. Hazards Identification

**Emergency overview** For external use only. Avoid contact with eyes. May cause eye irritation.  
WARNING  
COMBUSTIBLE. Keep away from fire or flame.  
Irritating to eyes.

**Potential short term health effects**

**Routes of exposure** Eye, Skin contact, Inhalation, Ingestion.

**Eyes** May cause irritation.

**Skin** Non-irritating based on test data. Not a skin sensitizer based on test data.

**Inhalation** Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).

**Ingestion** Not a normal route of exposure. May cause stomach distress, nausea or vomiting.

**Target organs** Blood. Eyes. Liver. Respiratory system.

**Chronic effects** Prolonged or repeated exposure can cause drying, defatting and dermatitis.

**Signs and symptoms** Symptoms may include redness, edema, drying, defatting and cracking of the skin.  
Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

## 3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Isopropyl Alcohol	67-63-0	60 - 100
Water	7732-18-5	30 - 60

## 4. First Aid Measures

**First aid procedures**

**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** Discontinue use if irritation and redness develop. If condition persists for more than 72 hours, consult a physician.



<b>Inhalation</b>	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
<b>Ingestion</b>	If swallowed, get medical help or contact a Poison Control Center immediately.
<b>Notes to physician</b>	Symptoms may be delayed.
<b>General advice</b>	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Keep out of reach of children.

## 5. Fire Fighting Measures

<b>Flammable properties</b>	Combustible material. ICAO Test Method 1.1.2.1.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Dry chemical. Alcohol foam. Carbon dioxide.
<b>Unsuitable extinguishing media</b>	Not available
<b>Protection of firefighters</b>	
<b>Specific hazards arising from the chemical</b>	Not available
<b>Protective equipment for firefighters</b>	Firefighters should wear full protective clothing including self contained breathing apparatus.
<b>Hazardous combustion products</b>	May include and are not limited to: Oxides of carbon.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	Not available
<b>Sensitivity to static discharge</b>	Not available

## 6. Accidental Release Measures

<b>Personal precautions</b>	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
<b>Methods for containment</b>	Prevent entry into waterways, sewers, basements or confined areas.
<b>Methods for cleaning up</b>	Remove sources of ignition. Pick up and discard towel.
<b>Other information</b>	Pick up and discard towel.

## 7. Handling and Storage

<b>Handling</b>	Use according to package label instructions. Use good industrial hygiene practices in handling this material.
<b>Storage</b>	Keep out of reach of children. Store at room temperature in the original container.

## 8. Exposure Controls / Personal Protection

<b>Exposure limits</b>	
<b>Ingredient(s)</b>	<b>Exposure Limits</b>
Alcohol	<b>ACGIH-TLV</b> TWA: 1000 ppm <b>OSHA-PEL</b> TWA: 1000 ppm
<b>Engineering controls</b>	General ventilation normally adequate.
<b>Personal protective equipment</b>	
<b>Eye / face protection</b>	Not normally required. Avoid contact with eyes.
<b>Hand protection</b>	Not required.
<b>Skin and body protection</b>	As required by employer code.
<b>Respiratory protection</b>	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink.

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## 9. Physical & Chemical Properties

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<b>Appearance</b>	Liquid saturated on wipe
<b>Color</b>	Clear, colorless on a wipe
<b>Form</b>	Pre-moistened towelette.
<b>Odor</b>	Alcohol
<b>Odor threshold</b>	Not available
<b>Physical state</b>	Pre-moistened towelette
<b>pH</b>	Not available
<b>Freezing point</b>	Not available
<b>Boiling point</b>	Not available
<b>Flash point</b>	25.6 °C (78 °F) (Liquid) (Tag closed cup)
<b>Evaporation rate</b>	Not available
<b>Flammability limits in air, lower, % by volume</b>	Not available
<b>Flammability limits in air, upper, % by volume</b>	Not available
<b>Vapor pressure</b>	Not available
<b>Vapor density</b>	Not available
<b>Specific gravity</b>	0.877 (Liquid)
<b>Octanol/water coefficient</b>	Not available
<b>Solubility (H2O)</b>	Pad is not soluble in water
<b>Auto-ignition temperature</b>	Not available
<b>VOC (Weight %)</b>	62% w/w% The liquid is a volatile.
<b>Viscosity</b>	Not available
<b>Percent volatile</b>	Not available

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## 10. Chemical Stability & Reactivity Information

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<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Avoid high temperatures. Do not mix with other chemicals.
<b>Incompatible materials</b>	Acids. Oxidizers. Caustics.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.

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## 11. Toxicological Information

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### Component analysis - LC50

Ingredient(s)	LC50
Alcohol	31623 ppm rat

### Component analysis - Oral LD50

Ingredient(s)	LD50
Alcohol	3450 mg/kg mouse; 1501 mg/kg rat

### Effects of acute exposure

<b>Eye</b>	May cause irritation.
<b>Skin</b>	Non-irritating based on test data. Not a skin sensitizer based on test data.
<b>Inhalation</b>	Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).
<b>Ingestion</b>	Not a normal route of exposure. May cause stomach distress, nausea or vomiting.
<b>Sensitization</b>	Non-hazardous by OSHA criteria.
<b>Chronic effects</b>	Non-hazardous by OSHA criteria.
<b>Carcinogenicity</b>	Non-hazardous by OSHA criteria.

### ACGIH - Threshold Limits Values - Carcinogens

Alcohol	67-63-0	A4 - Not Classifiable as a Human Carcinogen
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<b>Mutagenicity</b>	Mutagenic effects were observed in somatic and reproductive cells of live animals (rats and mice) exposed to high oral doses of ethanol.
<b>Reproductive effects</b>	Non-hazardous by OSHA criteria.
<b>Teratogenicity</b>	Non-hazardous by OSHA criteria.

## 12. Ecological Information

<b>Ecotoxicity</b>	Components of this product have been identified as having potential environmental concerns.	
<b>Ecotoxicity - Freshwater Fish Species Data</b>		
Alcohol	67-63-0	96 Hr LC50 <i>Oncorhynchus mykiss</i> : 12900 mg/L [flow-through] (30 days old); 96 Hr LC50 <i>Pimephales promelas</i> : 14.2 mg/L
<b>Ecotoxicity - Microtox Data</b>		
Alcohol	67-63-0	5 Min EC50 <i>Photobacterium phosphoreum</i> : 35470 mg/L; 30 min EC50 <i>Photobacterium phosphoreum</i> : 34634 mg/L
<b>Ecotoxicity - Water Flea Data</b>		
Alcohol	67-63-0	48 Hr EC50 <i>Daphnia magna</i> : 9268 mg/L; 24 Hr EC50 <i>Daphnia magna</i> : 10800 mg/L
<b>Environmental effects</b>	Not available	
<b>Aquatic toxicity</b>	Not available	
<b>Persistence / degradability</b>	This product is not readily biodegradable.	
<b>Bioaccumulation / accumulation</b>	Not available	
<b>Partition coefficient</b>	Not available	
<b>Mobility in environmental media</b>	Not available	
<b>Chemical fate information</b>	Not available	

## 13. Disposal Considerations

<b>Waste codes</b>	Not available
<b>Disposal instructions</b>	Dispose in accordance with all applicable regulations.
<b>Waste from residues / unused products</b>	Not available
<b>Contaminated packaging</b>	Not available

## 14. Transport Information

<b>Department of Transportation (DOT)</b>	
<b>Basic shipping requirements:</b>	
<b>Proper shipping name</b>	Solids containing flammable liquid, n.o.s. (ETHANOL)
<b>Hazard class</b>	4.1
<b>UN number</b>	UN3175
<b>Packing group</b>	II
<b>Additional information:</b>	
<b>Special provisions</b>	47, IB6, IP2, T3, TP33
<b>Packaging exceptions</b>	<1Kg-Consumer Commodity ORM-D
<b>ERG number</b>	133



## 15. Regulatory Information

<b>US Federal regulations</b>	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. CERCLA/SARA Hazardous Substances - Not applicable.
<b>Occupational Safety and Health Administration (OSHA)</b>	
<b>29 CFR 1910.1200 hazardous chemical</b>	Yes
<b>CERCLA (Superfund) reportable quantity</b>	
	None

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories**  
Immediate Hazard - Yes  
Delayed Hazard - Yes  
Fire Hazard - Yes  
Pressure Hazard - No  
Reactivity Hazard - No

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** Yes

**Clean Air Act (CAA)** Not available

**Clean Water Act (CWA)** Not available

**Safe Drinking Water Act (SDWA)** Not available

**Drug Enforcement Agency (DEA)** Not available

**Food and Drug Administration (FDA)** Not available

### Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

### State regulations

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

#### U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances

Alcohol 67-63-0 Present (refers to solutions greater than or equal to 25% which are not beverage alcohols)

#### U.S. - California - Proposition 65 - Developmental Toxicity

Alcohol 67-63-0 developmental toxicity, initial date 10/1/87 (when in alcoholic beverages)

#### U.S. - Massachusetts - Right To Know List

Alcohol 67-63-0 Teratogen

#### U.S. - Minnesota - Hazardous Substance List

Alcohol 67-63-0 Present

#### U.S. - New Jersey - Right to Know Hazardous Substance List

Alcohol 67-63-0 sn 0844

#### U.S. - Pennsylvania - RTK (Right to Know) List

Alcohol 67-63-0 Present

#### U.S. - Rhode Island - Hazardous Substance List

Alcohol 67-63-0 Toxic; Flammable

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## 16. Other Information

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### Disclaimer

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.

### Recommended use

For external use only. Keep away from children, unless under adult supervision.

### Issue date

15-Aug-2013

### Effective date

15-Nov-2013

### Prepared by

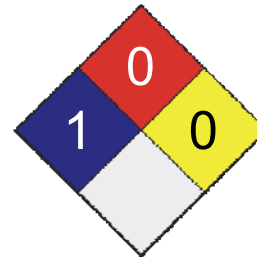
Nice-Pak Products, Inc.(845) 365-1700

## 1. Product and Company Identification

<b>Product Name</b>	<b>BZK Antiseptic Towelettes</b>	<b>MSDS No. 0055</b>
<b>CAS #</b>	Mixture	
<b>Product use</b>	Antiseptic	
<b>Manufacturer</b>	Professional Disposables International, Inc. Two Nice-Pak Park Orangeburg, NY 10962-1376 or Distributed by: Professional Disposables International Ltd, Ontario CA Phone (USA) 1-845-365-1700 (M-F 8am - 5pm) Phone (CANADA) 1-800-263-7067	

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	/ 1
Flammability	0
Physical Hazard	0
Personal Protection	



## 2. Hazards Identification

<b>Emergency overview</b>	Contact with liquid may cause eye and skin irritation.
<b>Potential short term health effects</b>	
<b>Routes of exposure</b>	Eye, Skin contact, Skin absorption, Inhalation, Ingestion.
<b>Eyes</b>	May cause irritation.
<b>Skin</b>	In case of skin irritation, discontinue use of the product.
<b>Inhalation</b>	Not a normal route of exposure. May cause respiratory tract irritation.
<b>Ingestion</b>	Not a normal route of exposure. May cause stomach distress, nausea or vomiting.
<b>Target organs</b>	Eyes. Skin.
<b>Chronic effects</b>	Prolonged or repeated exposure can cause drying, defatting and dermatitis.
<b>Signs and symptoms</b>	Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

## 3. Composition / Information on Ingredients

<b>Composition comments</b>	Non hazardous
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## 4. First Aid Measures

<b>First aid procedures</b>	
<b>Eye contact</b>	Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.
<b>Skin contact</b>	In case of skin irritation, discontinue use of product.
<b>Inhalation</b>	Not a normal route of exposure. If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
<b>Ingestion</b>	Not a normal route of exposure. Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.
<b>Notes to physician</b>	Symptoms may be delayed.
<b>General advice</b>	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Keep out of reach of children. Avoid contact with eyes.

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## 5. Fire Fighting Measures

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<b>Flammable properties</b>	Not flammable per ICAO Test Method 1.1.2.1
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Treat for surrounding material.
<b>Unsuitable extinguishing media</b>	Not available
<b>Protection of firefighters</b>	
<b>Specific hazards arising from the chemical</b>	Not available
<b>Protective equipment for firefighters</b>	Firefighters should wear full protective clothing including self contained breathing apparatus.
<b>Hazardous combustion products</b>	May include and are not limited to: Oxides of carbon. Hydrogen chloride.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	Not available
<b>Sensitivity to static discharge</b>	Not available

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## 6. Accidental Release Measures

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<b>Personal precautions</b>	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
<b>Methods for containment</b>	Prevent entry into waterways, sewers, basements or confined areas.
<b>Methods for cleaning up</b>	Pick up and discard towel.

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## 7. Handling and Storage

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<b>Handling</b>	Use good industrial hygiene practices in handling this material.
<b>Storage</b>	Keep out of reach of children. Store in a closed container away from incompatible materials.

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## 8. Exposure Controls / Personal Protection

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<b>Engineering controls</b>	General ventilation normally adequate.
<b>Personal protective equipment</b>	
<b>Eye / face protection</b>	Follow standard industrial hygiene practices.
<b>Hand protection</b>	Not required.
<b>Skin and body protection</b>	As required by employer code.
<b>Respiratory protection</b>	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink.

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## 9. Physical & Chemical Properties

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<b>Appearance</b>	Liquid saturated on wipe
<b>Color</b>	clear liquid
<b>Form</b>	Liquid saturated on wipe.
<b>Odor</b>	Characteristic
<b>Odor threshold</b>	Not available
<b>Physical state</b>	Solid
<b>pH</b>	Not available
<b>Melting point</b>	Not available
<b>Freezing point</b>	Not available
<b>Boiling point</b>	101.11 °C (214 °F)
<b>Flash point</b>	Not available
<b>Evaporation rate</b>	Not available

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Flammability limits in air, lower, % by volume	Not available
Flammability limits in air, upper, % by volume	Not applicable
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	Not available
Octanol/water coefficient	Not available
Solubility (H2O)	Not available
Auto-ignition temperature	Not available
VOC (Weight %)	Not available
Viscosity	Not available
Percent volatile	Not available

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## 10. Chemical Stability & Reactivity Information

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<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Do not mix with other chemicals.
<b>Incompatible materials</b>	Caustics. Acids. Oxidizers.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon. Hydrogen chloride.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.

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## 11. Toxicological Information

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<b>Effects of acute exposure</b>	
<b>Eye</b>	May cause irritation.
<b>Skin</b>	In case of skin irritation, discontinue use of the product.
<b>Inhalation</b>	Not a normal route of exposure. May cause respiratory tract irritation.
<b>Ingestion</b>	Not a normal route of exposure. May cause stomach distress, nausea or vomiting.
<b>Sensitization</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Chronic effects</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Carcinogenicity</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Mutagenicity</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Reproductive effects</b>	Non-hazardous by WHMIS/OSHA criteria.
<b>Teratogenicity</b>	Non-hazardous by WHMIS/OSHA criteria.

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## 12. Ecological Information

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<b>Ecotoxicity</b>	Not available
<b>Environmental effects</b>	Not available
<b>Aquatic toxicity</b>	Not available
<b>Persistence / degradability</b>	Not available
<b>Bioaccumulation / accumulation</b>	Not available
<b>Partition coefficient</b>	Not available
<b>Mobility in environmental media</b>	Not available
<b>Chemical fate information</b>	Not available
<b>Other adverse effects</b>	Not available

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## 13. Disposal Considerations

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<b>Waste codes</b>	Not available
<b>Disposal instructions</b>	Discard after single use. Review federal, state/provincial, and local government requirements prior to disposal. Discard with solid waste. Dispose in accordance with all applicable regulations.
<b>Waste from residues / unused products</b>	Not available

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## 14. Transport Information

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**U.S. Department of Transportation (DOT)**

Not regulated as dangerous goods.

**Transportation of Dangerous Goods (TDG - Canada)**

Not regulated as dangerous goods.

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## 15. Regulatory Information

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**Canadian federal regulations**

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 Federal regulations**

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
All components are on the U.S. EPA TSCA Inventory List.

**Occupational Safety and Health Administration (OSHA)**

29 CFR 1910.1200 hazardous chemical No

**CERCLA (Superfund) reportable quantity**

No

**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

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** No

**Clean Air Act (CAA)** Not available

**Clean Water Act (CWA)** Not available

**Safe Drinking Water Act (SDWA)** Not available

**Drug Enforcement Agency (DEA)** Not available

**Food and Drug Administration (FDA)** Not available

**State regulations Prop CA 65 :** This product is not subject to warning labeling under California Proposition 65.

**Inventory name**

Country(s) or region I	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

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## 16. Other Information

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**Disclaimer**

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**

20-Feb-2014

**Effective date**

20-Feb-2014



**Expiry date**  
**Prepared by**

19-Feb-2017  
Nice-Pak Products, Inc. (845) 365-1700

### 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) :



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

# Ammonia Inhalant Solution

## Safety Data Sheet

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

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 (CO<sub>2</sub>), 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

# Ammonia Inhalant Solution

## Safety Data Sheet

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

### 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.  
Other information : Containers may swell and Burst during a fire due to internal pressure caused by heat. Vapours 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

#### 6.1. 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.

##### 6.1.1. 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.

#### 6.2. Environmental precautions

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

- Methods for 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.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Additional hazards when processed : 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.  
Hygiene measures : 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.

# Ammonia Inhalant Solution

## Safety Data Sheet

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

### 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 (25°C). 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/m <sup>3</sup> )	35 mg/m <sup>3</sup>
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/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
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.

# Ammonia Inhalant Solution

## Safety Data Sheet

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

### 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
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
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)
----------------	--

# Ammonia Inhalant Solution

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

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 exposure)	: Not classified (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)

# Ammonia Inhalant Solution

## Safety Data Sheet

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

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

Log Pow : -0.32

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Other information : Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. 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.

Ecology - waste materials : Avoid release to the environment.

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

Hazard labels (DOT) : 3 - Flammable liquid  
8 - Corrosive



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:  $t_r$  is the maximum mean bulk temperature during transport,  $t_f$  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 ( $t_f$ ) and the maximum mean bulk temperature during transportation ( $t_r$ ) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where:  $d_{15}$  and  $d_{50}$  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 (49 CFR 173.27) : 1 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 5 L

DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a 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 (Domestic Substances 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 Substances 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

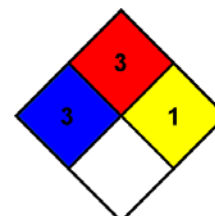
: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

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.



# Ammonia Inhalant Solution

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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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## Safety Data Sheet(SDS)

Complies with 91/155/EEC, 1907/2006 (REACH) and amendments, OSHA's Hazard Communication Standard, 29 CFR 1910.1200; and the requirements of the U.S. Department of Labor Occupational Safety & Health Administration.

### **Regulatory Status:**

This preparation is not classified as dangerous according to U.S. OSHA 29 CFR 1910.1200; E.C. Directive 1999/45/EC; Canadian R.S. 1985, c. H-3; U.K. CHIP 2002 No. 1689; and/or U.N. GHS ST/SG/AC 10/30.

None of the components present in this preparation at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

## **SECTION 1: PRODUCT IDENTIFICATION**

### **1.1 Product identifier:**

Instant cold pack

### **1.2 Recommended use and restrictions on use:**

Recommended use:

Cold application for cold therapy

### **1.3 Supplier's details:**

Manufacturer: Rapid Aid Corp.

Address: 4120A Sladeview Crescent, Mississauga Ontario, Canada L5L 5Z3

Telephone: 905 820 4788

## **SECTION 2: HAZARD IDENTIFICATION**

### **CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:**

The product is not classified as dangerous according to U.S. OSHA 29 CFR 1910.1200; E.C. Directive 1999/45/EC; Canadian R.S. 1985, c. H-3; U.K. CHIP 2002 No. 1689; and/or U.N. GHS ST/SG/AC 10/30;

**The ocular irritation test report (Nucro-Technics' Study No.: 292901-1)**

**GHS LABEL ELEMENTS:** The substance is classified and labeled according to the Globally Harmonized System (GHS).

### **HAZARD PICTOGRAMS & SIGNAL WORD**

This product is not a hazardous article and need not be labelled

### **HAZARD-DETERMINING COMPONENTS OF LABELING:**

None

### **HAZARD STATEMENTS:**

None

### **PRECAUTIONARY STATEMENTS:**

#### **Prevention**

None

#### **Response**

None

#### **Storage**

None

#### **Disposal**

None.

**CLASSIFICATION SYSTEM: NFPA DEFINITIONS: 0-LEAST, 1-SLIGHT, 2-MODERATE, 3-**

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### HIGH, 4-EXTREEM

NFPA RATING DIAMOND (SCALE 0-4):

HEALTH=0

FIRE=0

REACTIVITY=2

### HMIS-RATINGS (SCALE 0-4):

HEALTH : 0

FIRE : 0

REACTIVITY: 2

## SECTION 3: COMPOSITION INFORMATION

**COMPOSITION:** *Mixture consisting of the following components*

IUPAC	Concentration (weight percent, %)	MOLECULAR FORMULA	IDENTIFIERS
Water	40-60	H <sub>2</sub> O	CAS: 7732-18-5
Calcium Ammonium Nitrate	40-60	CaH <sub>4</sub> N <sub>4</sub> O <sub>9</sub>	CAS: 15245-12-2

## SECTION 4: FIRST AID MEASURES

### DESCRIPTION OF FIRST AID MEASURES

**GENERAL INFORMATION:** If medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.

**PRIMARY ROUTES OF ENTRY:** Primary routes of entry: Eye and skin contact; ingestion; inhalation.

#### AFTER INHALATION:

Move victim into fresh air. If breathing is difficult, give oxygen.

Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance.

#### AFTER SKIN CONTACT:

Immediately remove all contaminated clothing, including footwear.

Flush skin and hair with running water (and soap if available).

#### AFTER EYE CONTACT:

Wash out immediately with fresh running water.

Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.

If pain persists or recurs seek medical attention.

Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

#### AFTER SWALLOWING:

Do not induce vomiting. gargle with water, get medical attention.

### MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

No information available

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### SECTION 5: FIRE & EXPLOSION HAZARD DATA

**GENERAL INFORMATION:** Non flammable liquid

**FLASH POINT:** No information available

**AUTOIGNITION TEMPERATURE:** No information available

**EXTINGUISHING MEDIA:** USE FLOODING QUANTITIES OF WATER.

**SPECIAL FIRE FIGHTING PROCEDURES:** DO NOT use dry chemical, CO<sub>2</sub>, foam or halogenated-type extinguishers.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Avoid storage with reducing agents. Avoid any contamination of this material as it is reactive and any contamination is potentially hazardous

**HAZARDOUS DECOMPOSITION PRODUCTS:** Nitrogen oxide

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

- 1、 Remove all sources of ignition. Ensure adequate ventilation. Take precautionary measures against static discharges.
- 2、 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid breathing vapors and contacting with skin and eyes.
- 3、 Wear protective clothing, gloves, safety glasses and dust respirator.

#### SPILL AND LEAK PROCEDURES:

- 1、 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
- 2、 Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
- 3、 Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

#### ENVIRONMENTAL PRECAUTIONS:

- 1、 Prevent further leakage or spillage if safe to do so.
- 2、 Do not let product enter drains.

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### SECTION 7: HANDLING & STORAGE

#### PRECAUTIONS FOR SAFE HANDLING & STORAGE:

##### Protective measures

Handling is performed in a well ventilated place.

Wear suitable protective equipment.

Avoid contact with skin and eyes. Avoid inhalation of vapors or mist.

##### Measures to prevent fire

Keep away from heat/sparks/open flames/ hot surfaces.

Take precautionary measures against static discharges.

##### Measures to prevent aerosol and dust generation

Not applicable

#### OTHER PRECAUTIONS:

Wash hands and face after using of the substances

Replace the contaminated clothing immediately.

In addition to use mentioned in the first parts , unforeseen other specific end uses

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**RESPIRATORY PROTECTION:** Use appropriate respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Recommended Filter type: low boiling organic solvent, Type AX, Brown, conforming to EN371.

**EYE PROTECTION:** Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US)).

**SKIN PROTECTION:** Wear protective clothing.

**ENGINEERING CONTROLS:** Ensure adequate ventilation, especially in confined areas.  
Ensure that eyewash stations and safety showers are close to the workstation location.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** None

### SECTION 9: PHYSICAL/CHEMICAL CHARACTERISTICS

<b>pH:</b>	Not applicable
<b>Boiling Point:</b>	No information available
<b>Freezing Point:</b>	No information available
<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	No information available
<b>Vapor Pressure (mm Hg):</b>	No information available
<b>Vapor Density (AIR = 1):</b>	No information available
<b>Evaporation Rate (Butyl Acetate = 1):</b>	No information available
<b>Solubility in Water:</b>	Soluble in water
<b>Appearance and Odor:</b>	Granules and liquid

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### SECTION 10: STABILITY AND REACTIVITY

**STABILITY:** Stable under proper operation and storage conditions

**CONDITIONS TO AVOID:** Melts and decomposes when strongly heated.

**INCOMPATIBILITY (MATERIAL TO AVOID):** organic material, oils or charcoals, reducing agent.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** nitrogen oxide

**HAZARDOUS POLYMERIZATION:** No polymerization

### SECTION 11: TOXICOLOGICAL INFORMATION

**PRECAUTIONARY STATEMENTS:** If medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.

**POTENTIAL HEALTH EFFECTS:**

INHALATION No information available.  
EYE No information available.  
SKIN No information available.  
INGESTION No information available.  
TARGET ORGANS No information available.

**PRIMARY ROUTES OF EXPOSURE** Percutaneous, Inhalation

**POTENTIAL EFFECTS OF CHRONIC EXPOSURE** No information available.

**IRRITATION/SENSITIZATION** No information available.

**TERATOGENICITY** Based on available data, the classification criteria are not met.

**MUTAGENICITY** Based on available data, the classification criteria are not met.

**REPRODUCTIVE TOXICITY** Based on available data, the classification criteria are not met.

### SECTION 12: ECOLOGICAL INFORMATION

**ECOTOXICITY:** No information available.

**BIODEGRADABILITY:** No information available.

**BIOACCUMULATION:** No information available.

**MOBILITY:** No information available.

**OTHER ADVERSE EFFECTS:** No information available.

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### SECTION 13: DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD:** Before disposal should refer to the relevant national and local laws and regulation.

### SECTION 14: TRANSPORT INFORMATION

#### UN NUMBER

DOT, ADR, IMDG, IATA: Not applicable

#### UN PROPER SHIPPING NAME

DOT: Not applicable

ADR: Not applicable

IMDG, IATA: Not applicable

#### TRANSPORT HAZARD CLASS(ES)

The product is not classified as dangerous according to DOT、ADR、IMDG、IATA

HAZARD LABEL: Not applicable

DOT CLASS : Not applicable

LABEL: Not applicable

ADR CLASS : Not applicable

LABEL: Not applicable

IMDG, IATA CLASS: Not applicable

LABEL: Not applicable

PACKING GROUP: Not applicable

PACKING INSTRUCTION: Not applicable

SPECIAL PROVISIONS: Not applicable

IMDG LIMITED QUANTITY (LQ): Not applicable

EXCEPTED QUANTITIES (EQ): Not applicable

UN MODEL REGULATION:TDG (18th)

ORM-D: Not applicable

#### STC (Shanghai) Company Limited

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### SECTION 15: REGULATORY INFORMATION

#### US FEDERAL REGULATIONS:

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TSCA (TOXIC SUBSTANCE CONTROL ACT): Listed (Calcium Ammonium Nitrate)  
CERCLA/SARA - HAZARDOUS SUBSTANCES AND THEIR REPORTABLE  
QUANTITIES: Listed (Calcium Ammonium Nitrate)  
302 EXTREMELY HAZARDOUS SUBSTANCES EPCRA RQS: Listed (Calcium  
Ammonium Nitrate)  
302 EXTREMELY HAZARDOUS SUBSTANCES TPQS: Listed (Calcium Ammonium Nitrate)  
CERCLA/SARA - 313 - EMISSION REPORTING: Listed (Calcium Ammonium Nitrate)

#### US STATE REGULATIONS:

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CALIFORNIA - 8 CCR SECTION 339 - DIRECTOR'S LIST OF HAZARDOUS  
SUBSTANCES: No information available.

#### INTERNATIONAL REGULATIONS:

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WATER HAZARD CLASS (GERMANY): Listed (Calcium Ammonium Nitrate)

#### CANADA

DOMESTIC SUBSTANCES LIST (DSL): Listed (Calcium Ammonium Nitrate)

WHMIS - INGREDIENT DISCLOSURE LIST: Listed (Calcium Ammonium Nitrate)

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### SECTION 16: OTHER INFORMATION

**Date of Preparation/Last Revision:** 4/01/15

**FURTHER INFORMATION:** This SDS has been prepared in accordance with: 91/155/EEC, 1907/2006 (REACH) and amendments, OSHA's Hazard Communication Standard, 29 CFR 1910.1200; and the requirements of the U.S. Department of Labor Occupational Safety & Health Administration.

**DISCLAIMER:** The information provided in this Data Safety Sheet has been compiled, in good faith, from our experience and data presented in various technical publications. An SDS for a substance is not primarily intended for use by the general consumer, focusing instead on the hazards of working with the material in an occupational setting. It is believed to be accurate and represents the best information currently available. HOWEVER, STC(Shanghai) Company Limited MAKES NO WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER TYPE, EXPRESSED OR IMPLIED, WITH RESPECT TO PRODUCTS DESCRIBED OR DATA OR INFORMATION PROVIDED, AND WE ASSUME NO LIABILITY RESULTING FROM THE USE OF SUCH PRODUCTS, DATA OR INFORMATION. Users should make their own investigations to determine the suitability of the information for their particular purposes, and the user assumes all risk arising from their use of the material. The user is required to comply with all laws and regulations relating to the purchase, use, storage and disposal of the material, and must be familiar with and follow generally accepted safe handling procedures. In no event shall STC(Shanghai) Company Limited be liable for any claims, losses, or damages of any individual or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if STC(Shanghai) Company Limited has been advised of the possibility of such damages. We reserve the right to update SDS sheets from time to time as new information becomes available. It is the responsibility of the user to verify that they have the latest revision available.

\*\*\*\*\* End of Test Report \*\*\*\*\*

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## 1. Identification

<b>Product identifier</b>	<b>Eyesaline Eyewash or Sterile Eyesaline</b>
<b>Other means of identification</b>	
<b>Product code</b>	32-ST1050, 32-ST2050, 32-000440, 32-000445, 32-000451, 32-000452, 32-000454, 32-000455, 32-000456, 32-000457, 32-000460, 32-000461, 32-000462, 32-000465, 32-000494, 32-000497, 32-000498
<b>Recommended use</b>	Emergency eyewash.
<b>Recommended restrictions</b>	None known.
<b>Manufacturer/Importer/Supplier/Distributor information</b>	
<b>Company name:</b>	Honeywell Safety Products USA, Inc
<b>Address:</b>	825 East Highway 151 Platteville, WI 53818 USA
<b>Telephone:</b>	1-800-873-5242
<b>Contact Person</b>	hsptechsupport@honeywell.com
<b>E-mail:</b>	msds@chemtrec.com
<b>Emergency phone number:</b>	+1-703-741-5500 for USA/Canada

## 2. Hazard(s) identification

<b>Physical hazards</b>	Not classified.
<b>Health hazards</b>	Not classified.
<b>OSHA defined hazards</b>	Not classified.
<b>Label elements</b>	
<b>Hazard symbol</b>	None.
<b>Signal word</b>	None.
<b>Hazard statement</b>	The mixture does not meet the criteria for classification.
<b>Precautionary statement</b>	
<b>Prevention</b>	Observe good industrial hygiene practices.
<b>Response</b>	Wash hands after handling.
<b>Storage</b>	Store away from incompatible materials.
<b>Disposal</b>	Dispose of waste and residues in accordance with local authority requirements.
<b>Hazard(s) not otherwise classified (HNOC)</b>	None known.
<b>Supplemental information</b>	None.

## 3. Composition/information on ingredients

### Mixtures

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

## 4. First-aid measures

<b>Inhalation</b>	If symptomatic, move to fresh air. Get medical attention if symptoms persist.
<b>Skin contact</b>	Wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.
<b>Eye contact</b>	Remove contact lenses. Get medical attention promptly if symptoms occur after flushing.
<b>Ingestion</b>	Seek medical advice.
<b>Most important symptoms/effects, acute and delayed</b>	No specific symptoms noted.

<b>Indication of immediate medical attention and special treatment needed</b>	Treat symptomatically.
<b>General information</b>	In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	No restrictions known.
<b>Specific hazards arising from the chemical</b>	None.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	None.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	For industrial use, wear appropriate personal protective equipment (See Section 8).
<b>Methods and materials for containment and cleaning up</b>	Stop leak if you can do so safely. Absorb spill with appropriate sand, clay or other inert sorbent material, then place in appropriate waste container.  Large Spills: Flush area with water. Treat runoff per applicable environmental regulations pertaining to drains, water courses and ground water, diking if required.
<b>Environmental precautions</b>	Treat discharge into drains, water courses or onto the ground according to applicable regulations.

## 7. Handling and storage

<b>Precautions for safe handling</b>	Observe good industrial hygiene practices. Avoid inhalation of vapors and contact with skin and eyes.
<b>Conditions for safe storage, including any incompatibilities</b>	Keep container closed. Store away from incompatible materials. Do not allow material to freeze. Keep at temperature not exceeding 43°C / 110°F.

## 8. Exposure controls/personal protection

<b>Occupational exposure limits</b>	No exposure limits noted for ingredient(s).
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Exposure guidelines</b>	No exposure standards allocated.
<b>Appropriate engineering controls</b>	Not required.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	None under normal conditions.
<b>Skin protection</b>	
<b>Hand protection</b>	Chemical resistant gloves are recommended.
<b>Other</b>	None under normal working conditions.
<b>Respiratory protection</b>	Not normally needed.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking.

## 9. Physical and chemical properties

<b>Appearance</b>	Colorless liquid.
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Color</b>	Colorless.
<b>Odor</b>	No discernable odor.
<b>Odor threshold</b>	Not available.

<b>pH</b>	6.9 - 7.4
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	200 °F (93.33 °C)
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	760 mm Hg
<b>Vapor density</b>	Not available.
<b>Relative density</b>	1
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Completely soluble in water.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.

## 10. Stability and reactivity

<b>Reactivity</b>	Stable at normal conditions.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Contact with incompatible materials. Freezing. Elevated temperatures.
<b>Incompatible materials</b>	None.
<b>Hazardous decomposition products</b>	No hazardous decomposition products are known.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	Under normal conditions of intended use, this material is not expected to be an inhalation hazard.
<b>Skin contact</b>	Prolonged or repeated contact may dry skin and cause irritation.
<b>Eye contact</b>	May cause temporary eye irritation.
<b>Ingestion</b>	No harmful effects expected in amounts likely to be ingested by accident.

**Symptoms related to the physical, chemical and toxicological characteristics** May cause discomfort if swallowed.

### Information on toxicological effects

<b>Acute toxicity</b>	No adverse effects due to eye or skin contact are expected.
<b>Skin corrosion/irritation</b>	Not classified.
<b>Serious eye damage/eye irritation</b>	Not classified.
<b>Respiratory or skin sensitization</b>	
<b>Respiratory sensitization</b>	Not classified.
<b>Skin sensitization</b>	Not a skin sensitizer.
<b>Germ cell mutagenicity</b>	Not classified.

**Carcinogenicity** Not classified.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**Reproductive toxicity** Not classified.

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Not classified.

**Chronic effects** Not classified.

## 12. Ecological information

**Ecotoxicity** The product is 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 data available.

**Bioaccumulative potential** The product is not expected to bioaccumulate.

**Mobility in soil** The product is completely soluble in water.

**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** Dispose in accordance with all applicable regulations. Do not allow runoff to sewer, waterway or ground.

**Hazardous waste code** Waste codes should be assigned by the user based on the application for which the product was used.

**Waste from residues / unused products** Dispose of in accordance with local 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 dangerous goods.

### IATA

Not regulated as dangerous goods.

### IMDG

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

## 15. Regulatory information

**US federal regulations** This product is not hazardous according to OSHA 29CFR 1910.1200. One or more components are not listed on TSCA.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

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

Not listed.

### CERCLA Hazardous Substance List (40 CFR 302.4)

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 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical** 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 (SDWA)** Not regulated.**US state regulations**

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

**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**

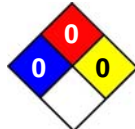
Not Listed.

**International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
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)	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
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).

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** 02-July-2015**Revision date** -**Version #** 01**Further information** The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.**NFPA ratings**



## List of abbreviations

### References

ACGIH  
EPA: Acquire database  
NLM: Hazardous Substances Data Base  
US. IARC Monographs on Occupational Exposures to Chemical Agents  
National Toxicology Program (NTP) Report on Carcinogens  
ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices  
ESIS (European chemical Substances Information System)  
HSDB® - Hazardous Substances Data Bank  
IARC Monographs. Overall Evaluation of Carcinogenicity

### Disclaimer

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.