

# MATERIAL SAFETY DATA SHEET

<b>Antiseptic Spray</b>	MSDS No.:	001
	Revision No.:	4
	Issue Date	01/15/2008
	Exp. Date:	01/2011

## PRODUCT AND COMPANY INFORMATION – SECTION 1

<b>Manufacturer/Distributor</b>	Water-Jel Technologies
	50 Broad Street
	Carlstadt, NJ 07072
	201-507-8300
	800-275-3433
<b>Product Name:</b>	<b>Antiseptic Spray</b>
<b>Synonyms:</b>	Cut Spray, Scrape Spray
<b>Intended Use:</b>	Antiseptic spray containing Benzalkonium Chloride to help prevent infection from minor cuts, burns, and scrapes. For external use only.

### FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT:

In the continental U.S.: 800-275-3433  
 For additional information: 201-507-8300

## COMPOSITION INFORMATION – SECTION 2

In accordance with 29 CFR § 1910.1200 (i) (1) the specific chemical identity of this product is being withheld as a trade secret.

<b>Chemical Name:</b>	Purified Water
<b>Percent:</b>	Proprietary
<b>CAS Number:</b>	7732-18-5
<b>Exposure Limits:</b>	None Established

## HAZARDS IDENTIFICATION – SECTION 3

<b>EMERGENCY OVERVIEW &amp; HAZARDS PRESENT TO MAN AND THE ENVIRONMENT</b>	Poses little or no immediate hazard.
<b>PRIMARY ROUTES OF EXPOSURE</b>	Inhalation
<b>POTENTIAL HEALTH EFFECTS:</b>	
<b>Eyes:</b>	May cause mild irritation.
<b>Skin:</b>	Substance may cause slight skin irritation. Contact with heated product may cause thermal burns.
<b>Inhalation:</b>	Practically non-toxic if inhaled.
<b>Ingestion:</b>	Practically non-toxic if ingested.
<b>MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:</b>	Available data does not identify any conditions.

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<b>CHRONIC HEALTH EFFECTS:</b>	
<b>Eyes:</b>	No information available.
<b>Skin:</b>	Mild to severe dermatitis.
<b>Inhalation:</b>	High concentration in immediate area can displace oxygen and can cause dizziness, unconsciousness, and even death with longer exposure. Keep people away from such vapors without self-contained breathing apparatus.
<b>Ingestion:</b>	No information available.

<b>FIRST AID MEASURES – SECTION 4</b>	
<b>SEEK MEDICAL ATTENTION FOR ALL CASES OF OVEREXPOSURE.</b>	
<b>FIRST AID MEASURES:</b>	
<b>Eyes:</b>	First aid not normally required.
<b>Skin:</b>	Flush eyes with clear running water for a minimum of fifteen (15) minutes while holding eyelids open; if irritation persists, seek medical attention.
<b>Inhalation:</b>	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.
<b>Ingestion:</b>	First aid not normally required.
<b>Instructions for Physician:</b>	No information available.

<b>FIRE FIGHTING MEASURES – SECTION 5</b>			
<b>NFPA Classification</b>			
<b>Health</b>	<b>Fire</b>	<b>Reactivity</b>	<b>Other</b>
0	0	0	N/A
<b>FLAMMABILITY PROPERTIES</b>			
<b>Flash Point:</b>	N/A	<b>Method:</b>	N/A
<b>Flammability Limits:</b> (in air % by volume)		<b>LEL:</b>	N/A
		<b>UEL:</b>	N/A
<b>Autoignition Temperature:</b>			
No information available.			
<b>Hazardous Combustion Products:</b>			
No Information available.			

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<b><u>Extinguishing Media:</u></b>
No extinguishing media is required.
<b><u>Prohibited Extinguishing Media:</u></b>
No information available.
<b><u>Firefighting Instructions:</u></b>
No special fire fighting instructions are required.
<b><u>Unusual Fire and Explosion Hazards:</u></b>
Rapid temperature rise of liquid can result in explosive vaporization, particularly if in a sealed container.

ACCIDENTAL RELEASE MEASURES – SECTION 6	
<b><u>Environmental Precautions:</u></b>	No information available.
<b><u>Cleanup Methods:</u></b>	<p><u>Small spills:</u> Small quantities can be mopped or wiped up with rags.</p> <p><u>Large spills:</u> Large quantities should be directed to collecting basin or drain with dikes or swabs..</p>

HANDLING & STORAGE – SECTION 7	
<b>Handling:</b>	No special handling is required.
<b>Storage:</b>	No special storage is required.
<b>Specific Uses:</b>	Antiseptic Spray containing Benzalkonium Chloride to help prevent infection from minor cuts, burns, and scrapes. For external use only.

EXPOSURE CONTROLS / PERSONAL PROTECTION – SECTION 8		
<b><u>EXPOSURE CONTROLS:</u></b>		
<b><u>Exposure Limits Values:</u></b>		
	<b><u>OSHA PEL:</u></b>	<b><u>ACGIH TLV:</u></b>
Purified Water	Not Established	Not Established
<b><u>Engineering Controls:</u></b>		
If hot vapor exist, remove from environment using local exhaust systems.		

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<b><u>PERSONAL PROTECTIVE EQUIPMENT:</u></b>
<b><u>Respiratory Protection:</u></b>
PPE not normally required.
<b><u>Hand Protection:</u></b>
Use insulating gloves if dealing with hot liquid.
<b><u>Eye/Face Protection:</u></b>
Goggles or full-face splash shield if dealing with hot liquid.
<b><u>Skin Protection:</u></b>
Use heat protective garment when exposed to large quantities of heated vapor.
<b><u>General Hygiene Considerations:</u></b>
No information available.
<b><u>Other Protective Equipment:</u></b>
No information available.

<b>PHYSICAL &amp; CHEMICAL PROPERTIES – SECTION 9</b>	
<b>PRODUCT:</b>	<b>Antiseptic Spray</b>
<b>General Information:</b>	
Appearance	Clear, water-like solution
Odor	Slight Medicinal Odor
<b>Important Health, Safety, and Environmental Information:</b>	
Boiling Point	100°C (212°F)
Melting Point	N/A
Flash Point	N/A
Explosive Properties	N/A
Oxidizing Properties	N/A
Specific Gravity ( $H_2O = 1$ )	1
Water Solubility	Complete
Partition Coefficient ( <i>n</i> -octanol/water)	N/A
Viscosity	N/A
Vapor Pressure ( <i>mm Hg</i> )	17.53
Vapor Density ( <i>Air = 1</i> )	N/A
Evaporation Rate	N/A

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% Volatile (By Volume @ 68°F)	100
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## STABILITY & REACTIVITY – SECTION 10

<b><u>Stability:</u></b> This material is stable under normal conditions.
<b><u>Conditions to avoid:</u></b> Exposure to direct current electricity causes instability.
<b><u>Materials to avoid:</u></b> Strong acids and bases can cause rapid heating. Reaction with sodium metal can result in explosion.
<b><u>Hazardous Decomposition Products:</u></b> Hydrogen, Oxygen
<b><u>Hazardous Polymerization:</u></b> Will not occur.

## TOXICOLOGICAL INFORMATION – SECTION 11

<u>Type of Test</u>	<u>Route of Exposure</u>	<u>Effects</u>	<u>Species Observed</u>	<u>Dose Data</u>
No information available.				

## ECOLOGICAL INFORMATION – SECTION 12

<b><u>Ecotoxicity:</u></b> No information available.
<b><u>Mobility:</u></b> No information available.
<b><u>Persistence and Degradability:</u></b> No information available.
<b><u>Bio accumulative Potential:</u></b> No information available.

## DISPOSAL CONSIDERATION – SECTION 13

All disposals of this material must comply with federal, state, and local regulations.
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TRANSPORT INFORMATION – SECTION 14	
<b><u>DOT CLASSIFICATION:</u></b>	
UN Number:	Not Regulated for Domestic Transport.
Class:	
Proper Shipping Name:	
Packing Group:	
Marine Pollutant:	
Other Information:	
<b><u>IATA CLASSIFICATION:</u></b>	
Un Number:	Not Regulated for International Air Transport.
Class:	
Proper Shipping Name:	
Packing Group:	
Marine Pollutant:	
Other Information:	
<b><u>IMDG CLASSIFICATION:</u></b>	
Un Number:	Not Regulated for International Water Transport.
Class:	
Proper Shipping Name:	
Packing Group:	
Marine Pollutant:	
Other Information:	

REGULATORY INFORMATION – SECTION 15	
<b><u>US REGULATIONS</u></b>	
ACGIH	Not Established
CAA Section 112	Not Listed
CERCLA	Not Listed
IARC	Not Listed
NTP	Not Listed
OSHA	Not Established
SARA Title III	Not Listed
TSCA	Not Listed
<b><u>STATE REGULATIONS</u></b>	
MA substance List	Not Listed
NJ RTK Hazardous Substance List	Not Listed
PA Hazardous Substance List	Not Listed
Canadian WHMIS	Not Listed

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*To the best of our knowledge, the information contained herein is accurate. However, neither Water-Jel Technologies, nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*

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Product Name: Instant Cold Compress  
Product Code: ICE1069

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## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Instant Cold Compress  
Product Code: ICE1069

Responsible Party: Basic Medical Industries, Inc.  
12390 East End Ave  
Chino, California  
91710

For further information contact MSDS Coordinator  
8am - 6pm Pacific Time, Mon - Fri: 888-88-Basic (22742)

### EMERGENCY OVERVIEW

#### Emergency Telephone Numbers:

888-88-Basic (22742)  
909-548-4828

**Health Hazards:** Dry chemical of cold compress is an eye and skin irritant. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

**Physical Hazards:** Dry chemical is an oxidizer. Oxidizers can support combustion. Contact may increase flammability of other materials. Avoid contact with clothing and other combustible material.

< Physical Form: Solid/Liquid  
< Appearance: White solid in water bag  
< Odor: None

NFPA HAZARD CLASS:	Health:	1 (Slight)
	Flammability:	0 (Least)
	Reactivity:	3 (High)
	Other:	OXY (Oxidizer)

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Status: Final New

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>HAZARDOUS COMPONENTS</u>	<u>% Weight</u>	<u>EXPOSURE GUIDELINE</u>		
		<u>Limits</u>	<u>Agency</u>	<u>Type</u>
Ammonium Nitrate CAS# 6484-52-2	40-70	Not Established		
<u>OTHER COMPONENTS</u>	<u>% Weight</u>	<u>EXPOSURE GUIDELINE</u>		
		<u>Limits</u>	<u>Agency</u>	<u>Type</u>
Water CAS# 7732-18-5	30-60	Not Established		

Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or you local agencies, for further information.

## 3. HAZARDS IDENTIFICATION

### POTENTIAL HEALTH EFFECTS:

**Eye:** Eye irritant. Contact may cause stinging, watering, redness, and swelling.

**Skin:** Skin irritant. Contact may cause redness, itching, burning and skin damage. No harmful effects from skin absorption have been reported.

**Inhalation (Breathing):** Low to moderate degree of toxicity by inhalation.

**Ingestion (Swallowing):** Low to moderate degree of toxicity by ingestion.

**Signs and Symptoms:** Effects of overexposure may include irritation of the nose, throat and digestive tract; coughing, nausea, vomiting, diarrhea, abdominal pain, breathing difficulties, and blood disorders (methemoglobinemia).

**Cancer:** No data available.

**Target Organs:** No data available.

**Developmental:** Inadequate data available for this material.

**Other Comments:** This material contains nitrate salts. Nitrates may be reduced by intestinal bacteria to nitrite. When absorbed, nitrites may result in effects on the blood (methemoglobinemia) and blood vessels (vasodilating and a fall in blood pressure). Symptoms of toxicity may include headache, fainting, fatigue, cyanosis, confusion, irregular heartbeats, and possible respiratory paralysis. Pre-existing heart disease may be aggravated by exposure to nitrates.

**Pre-Existing Medical Conditions:** Conditions aggravated by exposure may include heart, blood vessel and skin disorders.

#### 4. FIRST AID MEASURES

**Eye:** Move victim away from exposure and into fresh air. If irritation or redness develops, flush eyes with clean water and seek immediate medical attention. For direct contact, immediately hold eyelids apart and flush the affected eye(s) with clean water for at least 15 minutes. Seek medical attention.

**Skin:** Remove contaminated shoes and clothing, and flush affected area(s) with large amounts of water. If skin surface is damaged, apply a clean dressing and seek medical attention. If skin surface is not damaged, cleanse affected area(s) thoroughly by washing with mild soap or water. If irritation or redness develops, seek medical attention.

**Inhalation (Breathing):** If respiratory symptoms or other symptoms of exposure develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

**Ingestion (Swallowing):** If swallowed, seek emergency medical attention. If victim is drowsy or unconscious and vomiting, place on left side with the head down and do not give anything by mouth. If victim is conscious and alert and ingestion occurred within the last hour, vomiting should be induced for ingestion of large amounts (more than 5 ounces in an adult) under direction from a physician or poison center. If possible, do not leave victim unattended and observe closely for adequacy of breathing.

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**Note to Physicians:** Nitrates in large doses may cause significant vasodilation and hypotension. Pre-existing ischemic heart disease may be aggravated by these effects. In large ingestions nitrates may cause methemoglobinemia. Methemoglobinemia should be suspected if cyanosis occurs. Methylene blue (1-2 mg/kg I.V. over several minutes) is an effective antidote for symptomatic methemoglobinemia.

## 5. FIRE FIGHTING MEASURES

**Flammable Properties:** Flash Point: None  
OSHA Flammability Class: Not applicable  
LEL/UEL: No data  
Autoignition Temperature: No data

**Unusual Fire & Explosion Hazards:** Oxidizer. The dry chemical of this material is an oxidizer and may increase inflammability of any combustible substance. It is the nature of oxidizers to provide their own oxygen source; smothering a fire may be ineffective. Nitrate salts support combustion under certain conditions. Ammonium nitrate is capable of detonation if heated under confinement or if subjected to strong shocks. Organic or other easily oxidizable matter can sensitize it to a more readily explodable state. Do not allow product to evaporate to dryness, especially in contact with combustible materials.

**Extinguishing Media:** Use water only. Do not use dry chemical, carbon dioxide or foam.

**Fire Fighting Instructions:** For fires beyond the incipient stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential chemical hazard is unknown, in enclosed or confined spaces, or when explicitly required by DOT, a self-contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8). Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Move undamaged containers from immediate hazard area if it can be done with minimal risk. Water spray may be useful in minimizing or dispersing vapors. Cool equipment exposed to fire with water, if it can be done with minimal risk.

## 6. ACCIDENTAL RELEASE MEASURES

The dry chemical of this material is an oxidizer. Keep all sources of

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ignition and hot metal surfaces away from spill/release. The use of explosion-proof equipment is recommended.

Stay upwind and away from spill/release. Notify person down wind of spill/release, isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant (see Section 8). Prevent spilled material from entering sewers, storm drains, other unauthorized treatment drainage systems, and natural waterways. Dike far ahead of spill for later recovery or disposal. Spilled material may be absorbed into an appropriate absorbent material. Notify appropriate federal, state, and local agencies. Immediate cleanup of any spill is recommended.

## 7. HANDLING AND STORAGE

**Handling:** Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. The use of appropriate respiratory protection is advised when concentrations exceed any established exposure limits (see Section 2 and 8). Wash thoroughly after handling. Do not wear contaminated clothing or shoes. Use good personal hygiene practice.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. Container should be disposed in an environmentally safe manner and in accordance with governmental regulations.

Before working on or in tanks which contain or have contained this material, refer to OSHA Regulations, ANSI Z49.1 and other governmental and industrial references pertaining to cleaning, welding, or other contemplated operations.

**Storage:** Use and store this material in cool, dry, well-ventilated areas away from heat and all sources of ignition. Post area "No Smoking or Open Flame." Solution is corrosive to copper, copper alloys, lead, and zinc. Store to avoid contact with incompatible materials such as ordinary combustibles, flammable liquids, greases, and those materials, including other oxidizers, that could react with the oxidizer or catalyze its decomposition (see Section 10). Prohibit accumulation of combustible waste in storage areas. Combustible construction materials that may be in contact with oxidizers shall be protected with a compatible coating to prevent impregnation of the combustible materials by

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the oxidizers. Protect container(s) against physical damage.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering controls:** If current ventilation practices are not adequate to minimize exposure, additional ventilation or exhaust systems may be required.

### Personal Protective Equipment (PPE):

**Respiratory:** A NIOSH/MSHA approved air purifying respirator with a N95 filter may be used under conditions where airborne concentrations are expected to exceed exposure limits (see Section 2). Protection provided by air purifying respirators is limited (see manufacturer's respirator selection guide). Use a positive pressure air supplied respirator if there is potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

**Skin:** The use of gloves impermeable to the specific material handled is advised to prevent skin contact, possible irritation, absorption, and skin damage (see glove manufacturer literature for information on permeability). Depending on conditions of use, apron and/or arm covers may be necessary.

**Eye/Face:** Approved eye protection to safeguard against potential eye contact, irritation, or injury is recommended. Depending on conditions of use, a face shield may be necessary.

**Other Protective Equipment:** A source of clean water should be available in the work area for flushing eyes and skin. Impervious clothing should be worn as needed.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm).

Flash Point: None

Flammable/Explosive Limits (%): LEL/UEL: No data

Autoignition Temperature: No data

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Appearance: White solid in water bag  
Physical State: solid/Liquid  
Odor: None  
pH: No data  
Vapor Pressure (mm Hg): No data  
Boiling Point: No data  
Freezing/Melting Point: No data  
Solubility in Water: 100%  
Specific Gravity: approx 1.3  
Evaporation Rate (nBuAc=1): No data

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal conditions of storage and handling. Dry chemical is an oxidizer and may promote combustion in other materials.

**Conditions To Avoid:** This material may be an oxidizer. Do not heat above 250°F. Do not let dry chemical or solution dry or crystallize in contact with organic, reactive, or combustible materials (see Sections 7).

**Incompatible Materials:** Avoid contact with reactive, combustible, or organic materials, such as wood, grain, organic chemicals, acids, corrosive liquids, sulfur, flammable liquids, chlorates, permanganates, finely divided materials, charcoal, coke, cork, or sawdust. Avoid contact with other oxidizers. Contact with alkaline materials may liberate ammonia.

**Hazardous Decomposition Products:** Material will not burn, but if involved in a fire, oxides of nitrogen may be generated. Exposure to heat may liberate ammonia fumes.

**Hazardous Polymerization:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

No definitive information available on carcinogenicity, mutagenicity, target organs or developmental toxicity.

## 12. DISPOSAL CONSIDERATIONS

This material, if discarded as produced, may be a RCRA "characteristic" hazardous waste due to the characteristic(s) of ignitability (D001). If the material is spilled to soil or water, characteristic testing of

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the contaminated materials is recommended. To assure proper disposal, consult with state and local regulations and disposal authorities.

### 13. TRANSPORT INFORMATION

Hazard Class or Division: Not classified as hazardous.

### 14. REGULATORY INFORMATION

This material contains the following chemicals subject to the reporting requirements of **SARA 313** and 40 CFR 372.

<u>COMPONENT</u>	<u>CAS NUMBER</u>
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Ammonia (includes anhydrous ammonia and aqueous ammonia from water dissociable ammonium salts and other sources; 10 percent of total aqueous ammonia is reportable under this listing)	7446-41-7
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Water dissociable nitrate compounds	None
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**Warning:** This material contains the following chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm, and are subject to the requirements of **California Proposition 65** (CA Health & Safety Code Section 25249.5)

--None Known--

This material has not been identified as a carcinogen by NTP, IARC, or OSHA.

**EPA (CERCLA) Reportable Quantity:** --None--

### 15. DOCUMENTARY INFORMATION

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### 16. DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

The information in this document is believed to be correct as of the date issued. **HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE**

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**IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THIS INFORMATION, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE.** This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assume the risk of his use thereof.

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# MATERIAL SAFETY DATA SHEET

James Alexander Corporation 845 Route 94 Blairstown, NJ 07825

Product Name: AMMONIA INHALANT SOLUTION

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**CHEMTREC 24 Hour Emergency Phone:** (800) 424-9300 **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.

## I. PRODUCT IDENTIFICATION

**Manufacturer's Name:** James Alexander Corporation **Phone:** (908)362-9266  
**Emergency Telephone No.:** (800)424-9300 (CHEMTREC)

**Address:** 845 Route 94 Blairstown, NJ 07825

**Product Name:** AMMONIA INHALANT SOLUTION

**Synonyms:** N/A

**D.O.T. Shipping Name:** Air shipments: Flammable Liquid Corrosive NOS, 3- UN 2924, PGII  
(Ammonia, ethanol)  
Ground shipments: Consumer Commodity- ORM-D

**NFPA Ratings:** Health - 3 Flammability - 3 Instability - 1

## II. HAZARDOUS INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>%</u>	<u>OSHA</u>	<u>ACGIH</u>	
			<u>PEL/TWA</u>	<u>TLV/TWA</u>	<u>TLV/STEL</u>
Ammonia	7664-41-7	17.5	50 ppm	25 ppm	35 ppm
Ethyl Alcohol	64-17-5	37.5	1000 ppm	1000 ppm	Not listed

## III. PHYSICAL DATA

**Boiling Point:** N/A for mixtures **Melting Point:** Unknown

**Specific Gravity:** 0.891 25/25 **Vapor Pressure:** Unknown

**Vapor Density:** Unknown **Solubility in water:** Very soluble

**% volatiles by vol.:** 55% **Evaporation Rate** (Butyl acetate=1): Unknown

**Appearance and odor:** Clear, pink to light red liquid. Pungent odor of ammonia.

**pH:** Unknown

## IV FIRE & EXPLOSION INFORMATION

**Flash Point:** Less than 50 degrees F **Test Method:** Pensky Martens Closed Cup  
**Autoignition temp:** Ammonia 1204 degrees F (651°C); Ethyl Alcohol: 685 degrees F (363°C)

**Flammable limits in air % by volume:** Lower (Unknown) Upper(Unknown)

**Extinguishing media:** "Alcohol resistant" foam, CO<sub>2</sub> or dry chemical.

# MATERIAL SAFETY DATA SHEET

James Alexander Corporation 845 Route 94 Blairstown, NJ 07825

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**CHEMTREC 24 Hour Emergency Phone:** (800) 424-9300 **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.

## Special fire fighting procedures:

**NOTE:** Individuals should perform only those fire-fighting procedures for which they have been trained.

Remove all sources of ignition. Move exposed containers from fire area if it can be done without risk. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode. Spray extinguishing media directly into base of flames. Water may be used to keep fire-exposed containers cool.

**Unusual fire and explosion hazard:** When heated, mixture will give off ammonia gas, a strong irritant to eyes, respiratory tract, and mucous membranes. Other toxic gases produced are oxides of nitrogen, carbon monoxide, carbon dioxide and hydrogen. Closed containers exposed to heat may develop pressure and explode.

Alcohol vapors are heavier than air and may travel a considerable distance to a source of ignition and flash back. 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.

## V. HEALTH HAZARD INFORMATION

**Primary routes of exposure:** Inhalation, eye contact, skin contact, ingestion.

### Signs and symptoms of overexposure:

**Inhalation:** Irritation or burns of the respiratory system, headache, coughing, lung congestion or inflammation, pulmonary edema, breathing difficulty. Headache, dizziness, drowsiness, loss of appetite and an inability to concentrate.

**Eye contact:** Severe irritation or burns, may lead to blindness.

**Skin contact:** Local irritation, dry skin, burns.

**Ingestion:** Burning pain in mouth, throat, constriction of throat, coughing, followed by nausea, vomiting or diarrhea. Ingestion may prove fatal.

**Medical Conditions Aggravated by Exposure:** Individuals with pre-existing nervous system disorders, skin disorders, eye problems, or impaired respiratory function may be more susceptible to the effects of overexposure.

## VI. EMERGENCY AND FIRST AID PROCEDURES

**For Inhalation:** Remove subject immediately to fresh air. Give artificial respiration if victim is not breathing. If breathing is difficult, give oxygen. Get immediate medical attention.

# MATERIAL SAFETY DATA SHEET

James Alexander Corporation 845 Route 94 Blairstown, NJ 07825

Product Name: AMMONIA INHALANT SOLUTION

MSDS Effective Date: September 10, 2004

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**CHEMTREC 24 Hour Emergency Phone:** (800) 424-9300 **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.

**For Eye Contact:** Immediately flush eyes with copious amounts of water for at least 15 minutes. Eyelids should be held apart and away from eyeball for thorough rinsing. Do not permit victim to rub eyes. Get immediate medical attention.

**For Skin Contact:** Immediately flush skin with copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes. Do not rub or apply ointment to affected area. Obtain medical attention if irritation persists. Wash clothing before re-use.

**For Ingestion:** Contact a Poison Control Center *immediately*. Do NOT induce vomiting. If conscious, have victim swallow large amounts of water. Do not give anything by mouth to an unconscious or convulsing person. Get *immediate* medical attention.

## -----VII. TOXICITY DATA-----

None of the components present in this formulation are currently classified as carcinogens in the NTP Annual Report on Carcinogens, IARC Monographs or by OSHA.

## -----VIII. PERSONAL PROTECTION-----

**Storage Requirements:** Protect containers from physical damage. Detached or outside storage is preferred. 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). Do not store in direct sunlight. Isolate from incompatible materials. Keep containers tightly closed.

**Handling Requirements:** All ignition sources should be eliminated. Remove closure carefully; internal pressure may be present. Keep closure up to prevent leakage. When contents are being transferred, metallic containers must be bonded to the receiving container and grounded to avoid static discharges. Never use pressure to empty containers. Replace closure carefully after each opening.

**Ventilation:** Not required for product (JAC unit dose inhalant) use. When handling bulk material, use general or local exhaust ventilation to meet TLV requirements. Where engineering controls are not feasible or sufficient to achieve full conformance with acceptable exposure limits, use NIOSH approved respiratory protection equipment. Care must be taken to assure that any respirator chosen is capable of protecting the user from **both ammonia and ethyl alcohol vapors**. In some cases, a self-contained breathing apparatus may be advisable.

**Eye Protection:** Not required for product (JAC unit dose inhalant) use. When handling bulk material, always wear gas-tight, splash-proof chemical safety goggles meeting OSHA 29CFR 1910.133 specifications.

**Skin Protection:** Not required for product (JAC unit dose inhalant) use. Use rubber gloves, protective suit, face shield and overshoes when handling bulk product.

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## IX. HAZARDOUS REACTIVITY

Stable at room temperature. Hazardous polymerization will not occur. However, product will react exothermically with acids. Releases ammonia vapor when heated. Ammonia component will decompose to hydrogen and oxides of nitrogen when heated. Carbon monoxide gas may also be produced when heated.

**Conditions To Avoid:** Sunlight, heat (heating above ambient temperatures causes the vapor pressure of the solution to increase).

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

## X SPILL, LEAK AND DISPOSAL PROCEDURES

For large spills, stop leak if you can do so without risk. Extinguish all sources of ignition. Wear self-contained breathing apparatus, chemical safety goggles and full protective clothing. Ventilate area. Spilled liquids should be contained and not washed into sewers or ground water. Contain by diking with non-combustible absorbent materials and place residue in DOT approved waste container.

Comply with all applicable local, state and federal regulations on spill reporting, handling and disposal of waste.

**Other Precautions:** Containers, even those that have been emptied, will retain product residue and vapors. Handle empty containers as if they were full.

**Prepared By:** David Robinson

**Title:** Vice President

**Date of Initial Preparation:** June 1989

**Latest Revision Date:** September 10, 2004

**NOTE:** 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.

# MATERIAL SAFETY DATA SHEET

Identity:	Eye Wash / Wound Irrigation Sterile, Buffered, Isotonic, Saline (Blue Label)
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## Section 1

Manufacturer: <b>Aaxis Pacific</b>	FAX	
Emergency Telephone		

Address by:	Fax: +61 2 9838 8616	Date Prepared:
<b>1/30-32 Foundry Rd, Seven Hills. NSW 2147, Australia</b> Telephone: +61 2 9838 9588		21/12/2004
		Sher Soa

Components (Chemical Names & Common Name) Hazardous Component 1% or greater, Carcinogens 0.1% or greater.	CAS No.	%	OSHA PEL	ACGIH TLV	OTHER LIMITS
Sodium Chloride	7647-14-5	1 – 0.1			
Potassium Dihydrogen Phosphate	7778-77-0	1 – 0.1			
Sodium Hydroxide	1310-73-2	1 – 0.1			

Physical State:	LIQUID	Specific Gravity (H <sub>2</sub> O = 1)	≥ 1
Boiling Point:	100°C	Melting Point:	N/A
Vapour Pressure (mm Hg);	N/A	Evaporation Rate (Water =1)	≥ 1
Vapour Density (Air =1)	Unknown	Water Reactive:	None
Solubility in Water;	Good	Percent Volatile:	N/A
		pH:	7.0-7.4
Appearance and Odour:	Clear, Colourless Liquid, Odourless		

Flash Point	Non-Flammable		
Flammability Limits in Air % by Volume:	N/A		
Extinguisher Media:	Carbon Dioxide, Water, Foam		
Special Fire Fighting Procedure:	None	Auto Ignition Temperature	N/A
Unusual Fire and Explosion Hazards:	None	LEL:	N/A
		UEL:	N/A

Stability	Unstable;	No	Conditions to Avoid:	None
	Stable:	Yes		
Incompability (Materials to Avoid):	N/A			
Hazardous Decomposition Products:	N/A			

Hazardous Polymerization May Occur:	May Occur	No	Conditions to Avoid:	None
	May Not Occur:	Yes		
Eye Contact:	PRODUCT IS INTENDED FOR USE IN OCULAR AREA			
Skin Contact	PRODUCT HAS NO EFFECT			
Inhalation:	PRODUCT HAS NO EFFECT			
Ingestion MAY CAUSE STOMACH DISCOMFORT IF LARGE AMOUNT INGESTED				

Identity:	Eye Wash Sterile, Buffered, Isotonic, Saline (Blue Label)			
Emergency First Aid Procedure	SEEK MEDICAL ASSISTANCE FOR FURTHER TREATMENT, OBSERVATION AND SUPPORT AS NECESSARY			
Eye Contact;	NONE REQUIRED			
Skin Contact;	NONE REQUIRED			
Inhalation;	NONE REQUIRED			
Ingestion;	CALL A PHYSICIAN, IF STOMACH DISCOMFORT OCCURS.			
Respiratory protection (Specify Type):	NONE			
Protection Gloves:	NONE		Eye Protection	NONE
Ventilation to be Used:	Local Exhaust	N/A	Special:	N/A
	Mechanical (General)	N/A	Other:	N/A
Other protective Clothing and Equipment:	NOT REQUIRED			
Hygienic Work Practices:	KEEP CONTAINER CLOSED WHEN NOT IN USE. ALWAYS READ LABEL BEFORE USE.			
Steps to be taken if Material is Spilled or Released:	MOP UP OR FLUSH DOWN SANITARY SEWER.			
Waste Disposal Methods:	IN ACCORDANCE WITH MUNICIPAL, PROVINCIAL AND FEDERAL REGULATION			
Precaution to be taken in handling and Storage:	KEEP AT ROOM TEMPERATURE (15-30°C)			
Other Precaution and/or Special Hazards:	KEEP FROM FREEZING READ LABEL BEFORE USING.			
<b>HMIS Rating:</b>	Health:0	Flammability: 0	Reactivity 0	Personal Protection 0
<b>NFPA Rating:</b>	Health:0	Flammability: 0	Reactivity 0	Personal Protection 0



## MATERIAL SAFETY DATA SHEET

#1108 #1201

POVIDONE IODINE SWAB/SCRUB/OINTMENT/PREP/SOLUTION

### Section I -- General Information

Product/Trade Name: Povidone Iodine Swab/Scrub/Ointment/Prep/Solution  
Manufacturer's Name: PDI-Professional Disposables Inc.  
The Healthcare Division of Nice-Pak Products, Inc.  
Manufacturer's Address: 2 Nice-Pak Park  
Orangeburg, NY10962-1376  
Hazard Rating (NFPA): Health: 1  
Flammability: 1  
Reactivity: 0  
Specific: None  
Emergency or Information Phone No.: 914-365-1700 (M-F Daytime)  
At other times, contact the local Poison Control Center  
Chemical Name: Mixture

### Section II -- Hazardous Ingredients Per 29 CFR 1910.1200

INGREDIENTS	CAS NUMBER	WT. %	ACGIH-TLV
Povidone Iodine Complex	2565-5418	.5 to 3	None Established

### Section III -- Physical/Chemical Characteristics

Color/Appearance: Applicator saturated with dark reddish brown liquid  
Odor: Faint Iodine  
Boiling Point: N/A  
Flash Point: >200°F  
Vapor Density: N/A  
Evaporation Rate: N/A  
Solubility in Water: Soluble  
Specific Gravity (H<sub>2</sub>O=1): N/A

### Section IV -- Fire and Explosion Hazard Data

Flash Point (Method Used): N/A LEL: N/A UEL: N/A  
Extinguishing Media: Any  
Special Firefighting Procedures: None  
Unusual Fire and Explosion Hazards: May emit toxic fumes of iodine in a fire.

### Section V -- Reactivity Data

Stability: Stable  
Conditions to avoid: None known  
Incompatibility: Alkalis and reducing agents  
Hazardous Decomposition of Byproducts: Emits iodine vapors at high temperatures  
Polymerization: Will not occur

### Section VI -- Health Hazard Data

Effects of Overexposure:

Skin: May cause irritation  
Eyes: May be irritating  
Inhalation: None  
Ingestion: Harmful

**Emergency and First Aid Procedures:**

Skin Contact: Discontinue if rash or irritation is noted.  
Eye Contact: Flush with cool water for 15 minutes.  
Inhalation: None  
Ingestion: Do not induce vomiting. Get medical attention.  
Target Organs: N/A

**Section VII -- Spill and Disposal Procedure**

Spill Control: Use absorbent material and dispose per local regulations.  
Waste Disposal Method: Follow local, state and federal regulations.  
Handling and Storage: Avoid storing at extreme temperatures.

**Section VIII -- Control Measures/Protection**

Respiration: None  
Ventilation: None  
Protective Gloves: If handling liquid  
Eye Protection: If splashing is a hazard  
Hygienic Practices: Good housekeeping practices should be followed.  
Other: Wear apron to protect clothing.

**Section IX -- Transport/Shipping**

DOT Shipping Name:  
Technical Shipping Name:  
DOT Shipping Classification: DOT not regulated  
DOT ID Number:  
DOT Label Requirements:  
UN/NA Number Regulations:  
Reportable Quantity:

**Disclaimer:**

The information furnished herein is believed to be accurate and represents the best data currently available to us. No warrant or implied, is made and Nice-Pak Products, Inc. assumes no legal responsibility or liability resulting from its use.



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