

# Material Safety Data Sheet

## 1. Chemical Product and Company Identification

**Product name:** \_\_\_\_\_ **Product codes:** \_\_\_\_\_

Instant Cold Pack \_\_\_\_\_ 80B \_\_\_\_\_

Description: A waterproof package containing small white ammonium nitrate pellets surrounding a small rupturable plastic bag filled with water. When the water and pellets mix, the liquid becomes cold. Product Use: Pack used for temporary temperature maintenance. User code/identification: \_\_\_\_\_

Manufacturer:  
Cardinal Health  
1430 Waukegan Road  
McGaw Park, IL 60085 USA  
Telephone: 1-800-964-5227 (Customer Service 8 am-4: 30 pm; CST M-F)

**For emergency information contact:  
CHEMTREC  
1-800-424-9300**

## 2. Composition/Information on Ingredients

Component (synonym)	CAS No.	Exposure Limit*
Water	7732-18-5	None
Ammonium nitrate	6484-52-2	None

\*Limit established by ACGIH or OSHA.

## 3. Hazards Identification

### Emergency Overview:

Instant cold upon mixing of components/ingredients.

If packaging is broken, direct contact with solution may be irritating to the skin, eyes, throat, and mucous membranes. Ingestion may cause vomiting, stomach upset, and gastritis.

### Potential Health Effects:

Eye contact: Unlikely under normal conditions of handling or usage. Direct contact with solution may be irritating to the skin.

Ingestion: Unlikely under normal conditions of handling or usage. May cause vomiting, stomach upset, gastritis (stomach inflammation), metabolic acidosis, diuresis (increased urination), vasodilatation, and methemoglobinemia.

Inhalation: Unlikely under normal conditions of handling or usage. Inhalation of solution may be irritating to mucus membranes.

Skin contact: Unlikely under normal conditions of handling or usage. Direct contact with solution may be irritating to the skin.

Carcinogen status: OSHA: Not listed.

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NTP: Not listed.  
IARC: Not listed.

Medical conditions  
aggravated by exposure: Kidney or intestinal dysfunction.

Potential physical effects: Ammonium nitrate pellets, prior to mixing, may explode from heat or contamination, can accelerate burning when involved in a fire, can react explosively with hydrocarbons.

## 4. First Aid Measures

- Eye contact: Flush with large amount of water for at least 15 minutes. If redness or irritation occurs, seek medical attention.
- Ingestion: Seek medical attention. Never give anything by mouth to an unconscious person. If patient is alert, dilute with 4 to 8 ounces of water or milk. Since ammonium nitrate has some irritative effects on the gastrointestinal tract, removing the material immediately by gastric lavage may be preferable to inducing vomiting with syrup of ipecac, which often takes at least 20 minutes to act.
- Inhalation: Nonvolatile liquid. Remove person to fresh air. If breathing is difficult, give oxygen and get medical attention. If person is not breathing, administer artificial respiration or CPR and get medical attention.
- Skin contact: Remove contaminated clothing, wash the effected area with mild detergent and water. Flush area with water for at least 15 minutes. If redness or irritation occurs, seek medical attention.

## 5. Fire Fighting Measures

Nonflammable solution. Ammonium nitrate pellets, prior to mixing, may explode from heat or contamination, can accelerate burning when involved in a fire, can react explosively with hydrocarbons.

## 6. Accidental Release Measures

Small spills can be taken up with an absorbent and placed in clean dry containers for later disposal.

This product is a non-hazardous waste when spilled or disposed of, as defined in Resource Conservation Recovery Act (RCRA) regulations (40 CFR 261).

## 7. Handling and Storage

Store under the following conditions:

Store at room temperature (not to exceed 104°F/40°C). Protect from freezing.

## 8. Exposure Controls/Personal Protection

- Eye protection: If waterproof packaging is broken, wear safety glasses.
- Gloves: If waterproof packaging is broken, use Latex or other impervious gloves.
- Respiratory Protection: No respiratory protection needed under normal conditions of handling and use.
- Skin Protection: No skin protection needed under normal conditions of handling and use.

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Ventilation: No ventilation should be required under normal conditions of handling and use.  
Exposure guidelines or limits: No occupational exposure limits established by ACGIH or OSHA.

## 9. Physical and Chemical Properties

Appearance: Clear to off white liquid packaged in a waterproof container.  
Boiling point: Not established.  
Freezing point: Not established.  
Vapor pressure: Not established.  
Specific gravity: Not established.  
Solubility in water: Soluble.  
pH: 3.0 (solution).

## 10. Stability and Reactivity

Hazardous polymerization: Not reported to occur under normal temperatures and pressures.  
Reactivity: Yes, instant cold upon mixing of ingredients. Ammonium nitrate pellets, prior to mixing, react violently with reducing agents, strong acids, powdered metals, and organic materials.  
Incompatibilities (specific materials to avoid): Strong acids, nitrate salts, chloride salts, metal salts, alkali metals, powdered metals, hydrocarbon oils.  
Decomposition products: Thermal decomposition may release toxic and/or hazardous gases. Highly toxic oxides of nitrogen, including ammonia are produced during combustion of ammonium nitrate.

## 11. Toxicological Information

Acute Toxicity The following toxicology information is for pure Ammonium nitrate  
LD<sub>50</sub> Oral, Rat: 4500 mg/kg  
LD<sub>50</sub> Dermal, Rabbit: 3000 mg/kg  
Inhalation, Human: Irritating to mucus membranes  
Oral, Livestock: 400 mg/L toxic limit  
Irritating to eyes, nose, and throat, and mucous membranes (HSDB)

Acute Effects  
Inhalation Unlikely under normal conditions of handling or usage. Inhalation of solution may be irritating to mucus membranes  
Ingestion Unlikely under normal conditions of handling or usage. May cause vomiting, stomach upset, gastritis (stomach inflammation), metabolic acidosis, diuresis (increased urination), vasodilatation, and methemoglobinemia.  
Skin Unlikely under normal conditions of handling or usage. Direct contact with solution may be irritating to the skin.  
Eyes Unlikely under normal conditions of handling or usage. Direct contact with solution may be irritating to the eyes.

Chronic Effects  
Carcinogenic Effects OSHA: Not listed.  
NTP: Not listed.

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IARC: Not listed.

## 12. Ecological Information

Environmental impact rating (0-4):	No data
Acute aquatic toxicity:	No data for chemical mixture
Degradability:	Yes
Log bioconcentrations factor:	Data not available
Log octanol/water partition coefficient:	No data

## 13. Disposal Considerations

Reprocess or burn in an approved incinerator  
Waste must be disposed of in accordance with federal, state and local environmental control regulations.  
Please be advised, however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations.

## 14. Transport Information

DOT Hazardous Material regulations (both ground and air transportation) do apply to this product.

Transportation and Hazardous Materials Description:

DOT shipping name:	Consumer Commodity*
DOT Hazard Class:	ORM-D*
UN/NA Number:	Not applicable
Product RQ (lbs):	Not applicable
DOT label:	Not applicable
DOT Placard	Not applicable
Product label:	Not applicable

\*Not an acceptable classification when using IATA Dangerous Goods regulations.

## 15. Regulatory Information

### Federal Regulatory Information:

CERCLA Section 103 (40 CFR 302.4), reportable quantity	Non-applicable
CERCLA/Superfund (40 CFR 117.302)	Non-applicable
OSHA Process Safety (29 CFR 1910.119)	Non-applicable

RCRA Status: If discarded in its used form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material contained in the product or derived from the product should be classified as a hazardous waste. If discarded in its purchased form, this product would be a hazardous waste by characteristic. (40 CFR 261.20-24)

SARA Section 302 (40 CFR 355.30), extremely hazardous substances	Non-applicable
SARA Section 304 (40 CFR 355.40)	Non-applicable
SARA Hazard categories, Title III sections 311 and 312 (40 CFR 370.21)	
Acute hazard	No
Chronic hazard	No
Fire hazard	No
Reactivity hazard	No
Sudden release hazard	No

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SARA Section 313 (40 CFR 372.65), toxic chemicals

Ammonium Nitrate  
(solution)  
Listed

TSCA status

**State Regulatory Information:**

California Proposition 65

Not on list

Other states: May be more restrictive or otherwise different.

## 16. Other Information

Abbreviations:

CERCLA:	Comprehensive Environmental Response, Compensation and Liability Act. Administered by EPA.
HSDB:	Hazardous Substance Data Bank.
IARC:	International Agency for Research on Cancer.
NTP:	National Toxicology Program.
OSHA:	Occupational Safety and Health Administration, US Department of Labor which regulates workplace conditions.
RCRA:	Resource Conservation and Recovery Act. Administered by EPA.
SARA:	Superfund Amendments and Reauthorization Act of 1986. Title III is also known as the Emergency Planning and Community Right-to-Know Act. Administered by EPA.
TSCA:	Toxic Substances Control Act.

### CARDINAL HEALTH CORPORATION DISCLAIMER

Neither Cardinal Health nor any of its affiliates or subsidiaries assumes any legal responsibility for use or reliance upon this information. Final determination of suitability of any material for a particular use 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 which exist. It is the user's responsibility to determine the appropriate handling, disposal or open disposition for the material or emergency response actions in light of the condition of the material, applicable regulations and other circumstances.

# MATERIAL SAFETY DATA SHEET

<b>Neomycin Antibiotic Ointment</b>	MSDS No.:	013
	Revision No.:	4
	Effective Date:	12/27/2010

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>Neomycin Antibiotic Ointment</b>
<b>Synonyms:</b>	Antibiotic Ointment, Antibiotic Cream, Neomycin Cream
<b>Intended Use:</b>	First Aid antibiotic ointment to help prevent infection in minor cuts, scrapes and burns. For external use only.

<b>FOR CHEMICAL EMERGENCY, SPILL, LEAK,          FIRE, EXPOSURE, OR ACCIDENT:</b>
<b>In the continental U.S.: 800-275-3433          For additional information: 201-507-8300</b>

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>	Petrolatum USP
<b>Percent:</b>	Proprietary
<b>CAS Number:</b>	8009-03-8
<b>Exposure Limits:</b>	Not Established
<b>Chemical Name:</b>	Neomycin Sulfate USP
<b>Percent:</b>	Proprietary
<b>CAS Number:</b>	1405-10-3
<b>Exposure Limits:</b>	Not Established

HAZARDS IDENTIFICATION – SECTION 3	
<b>EMERGENCY OVERVIEW &amp; HAZARDS PRESENT TO MAN AND THE ENVIRONMENT</b>	Warning! May cause eye and skin irritation.
<b>PRIMARY ROUTES OF EXPOSURE</b>	Skin
<b>POTENTIAL HEALTH EFFECTS:</b>	
<b>Eyes:</b>	This product is minimally irritating to the eyes upon direct contact.

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<b>Skin:</b>	<p>This product is minimally irritating to the skin upon direct contact.</p> <p><b>NOTE:</b> Neomycin sulfate may cause cutaneous sensitization. A precise incidence of hypersensitivity reactions (primarily skin rash) due to topical neomycin is not known. Discontinue promptly if sensitization or irritation occurs.</p>
<b>Inhalation:</b>	<p>This product has a low vapor pressure and is not expected to present an inhalation hazard at ambient conditions. Caution should be taken to prevent aerosolization or misting of this product.</p>
<b>Ingestion:</b>	<p>Do not ingest. This product is practically non-toxic by ingestion. This product has laxative properties and may result in abdominal cramps and diarrhea.</p>
<b>MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:</b>	No information available.
<b><u>CHRONIC HEALTH EFFECTS:</u></b>	
<b>Eyes:</b>	No information available.
<b>Skin:</b>	<p>When using neomycin-containing products to control secondary infection in the chronic dermatoses, such as chronic otitis externa or stasis dermatitis, it should be borne in mind that the skin in these conditions is more liable than is normal skin to become sensitized to many substances, including neomycin.</p>
<b>Inhalation:</b>	<p>Exposure to a large single dose or repeated smaller doses of petrolatum by inhalation can lead to lipid pneumonia or lipid granuloma of the lung. These are low-grade, chronic, localized tissue reactions. Shortness of breath and cough are the most common symptoms.</p>
<b>Ingestion:</b>	<p>Exposure to a large single dose or repeated smaller doses of petrolatum by ingestion leading to aspiration can lead to lipid pneumonia or lipid granuloma of the lung. These are low-grade, chronic, localized tissue reactions. Shortness of breath and cough are the most common symptoms.</p>

<b>FIRST AID MEASURES – SECTION 4</b>	
<b>SEEK MEDICAL ATTENTION FOR ALL CASES OF OVEREXPOSURE.</b>	
<b><u>FIRST AID MEASURES:</u></b>	
<b>Eyes:</b>	<p>Immediately flush eyes with large amounts of water and continue flushing until irritation subsides. If material is hot, treat for thermal burns and take victim to hospital immediately.</p>

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<b>Skin:</b>	Remove contaminated clothing. Wash contaminated area thoroughly with soap and water. If material is hot, submerge injured area in cold water. If victim is severely burned, remove to a hospital immediately.
<b>Inhalation:</b>	This material has a low vapor pressure and is not expected to present an inhalation exposure at ambient conditions. If vapor or mist is generated when the material is heated or handled, remove victim from exposure.
<b>Ingestion:</b>	Do not induce vomiting due to aspiration hazard. If vomiting should occur, lower head below knees to avoid aspiration.
<b>Instructions for Physician:</b>	Exposure to a large single dose or repeated smaller doses of petrolatum by inhalation, aspiration, or ingestion leading to aspiration, can lead to lipid pneumonia or lipid granuloma of the lung. These are low-grade, chronic, localized tissue reactions. Shortness of breath and cough are the most common symptoms.

<b>FIRE FIGHTING MEASURES – SECTION 5</b>					
<b><i>NFPA Classification</i></b>					
<b>Health</b>	<b>Fire</b>	<b>Reactivity</b>	<b>Other</b>		
0	1	0	N/A		
<b><u>FLAMMABILITY PROPERTIES</u></b>					
<b>Flash Point:</b>	Higher than 93.3°C (200°F)	<b>Method:</b>	Closed Cup		
<b>Flammability Limits:</b> (in air % by volume)		<b>LEL:</b>	N/A	<b>UEL:</b>	N/A
<b><u>Autoignition Temperature:</u></b>					
No information available.					
<b><u>Hazardous Combustion Products:</u></b>					
Carbon monoxide, carbon dioxide.					
<b><u>Extinguishing Media:</u></b>					
Use dry chemical, foam, or carbon dioxide.					
<b><u>Prohibited Extinguishing Media:</u></b>					
No information available.					
<b><u>Firefighting Instructions:</u></b>					
Water may be ineffective but can be used to cool containers exposed to heat or flame. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid.					
<b><u>Unusual Fire and Explosion Hazards:</u></b>					
Dense smoke may be generated while burning. Carbon monoxide, carbon dioxide, and other oxides may be generated as products of combustion.					



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## ACCIDENTAL RELEASE MEASURES – SECTION 6

<p><b><u>Environmental Precautions:</u></b></p> <p>Contain spill immediately. Do not allow spill to enter sewers or watercourses.</p>
<p><b><u>Cleanup Methods:</u></b></p> <p><i>Small spills:</i> Absorb with appropriate inert material such as sand, clay, etc. and dispose of into a suitable container.</p> <p><i>Large spills:</i> Large spills maybe picked up using vacuum pumps, shovels, buckets, or other means and placed in drums or other suitable containers.</p>

## HANDLING & STORAGE – SECTION 7

<b>Handling:</b>	Avoid breathing vapors or mist. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Wash clothing prior to reuse. May be slippery when spilled.
<b>Storage:</b>	Do not transfer to unmarked containers. Store in closed containers away from heat, sparks, open flame, or oxidizing materials.
<b>Specific Uses:</b>	First aid antibiotic ointment to help prevent infection in minor cuts, scrapes and burns. 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>
Petrolatum USP	Not Established	Not Established
<b><u>Engineering Controls:</u></b>		
If vapor or mist is generated when the material is heated or handled, adequate ventilation in accordance with good engineering practice must be provided to maintain concentrations below the specified or flammable limits.		
<b><u>PERSONAL PROTECTIVE EQUIPMENT:</u></b>		
<b><u>Respiratory Protection:</u></b>		
Respiratory protection is not required under conditions of normal use. If vapor or mist is generated when the material is heated or handled, use an organic vapor respirator with a dust and mist filter. All respirators must be NIOSH certified.		
<b><u>Hand Protection:</u></b>		
For prolonged or repeated exposures, use impervious gloves. If handling hot material, material use insulated protective gloves.		
<b><u>Eye/Face Protection:</u></b>		
Eye protection is not required under conditions of normal use. If material is handled such that it could be splashed into eyes, wear plastic face shield or splash-proof safety goggles.		

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<p><b><u>Skin Protection:</u></b></p> <p>No skin protection is required for single, short duration exposures. For prolonged or repeated exposures, use impervious clothing (boots, aprons, etc.) over parts of the body subject to exposure. If handling hot material, use insulated protective clothing (boots, aprons, etc.) Launder soiled clothes. Properly dispose of contaminated leather articles including shoes, which cannot be decontaminated.</p>
<p><b><u>General Hygiene Considerations:</u></b></p> <p>Consumption of food and beverage should be avoided in work areas where hydrocarbons are present. Always wash hands and face with soap and water before eating, drinking, or smoking.</p>
<p><b><u>Other Protective Equipment:</u></b></p> <p>No information available.</p>

<b>PHYSICAL &amp; CHEMICAL PROPERTIES – SECTION 9</b>	
<b>PRODUCT:</b>	<b>Neomycin Antibiotic Ointment</b>
<b>General Information:</b>	
Appearance	Off-white, lustrous ointment
Odor	Odorless
<b>Important Health, Safety, and Environmental Information:</b>	
Boiling Point	650°F (343.3°C)
Melting Point	125-130°F (51.7 – 54.4°C)
Flash Point	Higher than 93.3°C (200°C)
Explosive Properties	No information available.
Oxidizing Properties	No information available.
Specific Gravity ( $H_2O = 1$ )	0.86 – 0.87
Water Solubility	Insoluble in water
Partition Coefficient ( <i>n</i> -octanol/water)	No information available.
Viscosity	No information available.
Vapor Pressure ( <i>mm Hg</i> )	No information available.
Vapor Density ( <i>Air = 1</i> )	No information available.
Evaporation Rate	No information available.
% Volatile (By Volume @ 68°F)	No information available.

<b>STABILITY &amp; REACTIVITY – SECTION 10</b>
<p><b><u>Stability:</u></b></p> <p>Stable</p>
<p><b><u>Conditions to avoid:</u></b></p> <p>Heat, sparks, flame.</p>

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<p><b><u>Materials to avoid:</u></b></p> <p>May react with strong oxidizing agents.</p>
<p><b><u>Hazardous Decomposition Products:</u></b></p> <p>Carbon monoxide, carbon dioxide, and other oxides may be generated as products of combustion.</p>
<p><b><u>Hazardous Polymerization:</u></b></p> <p>Will not occur.</p>

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

DISPOSAL CONSIDERATION – SECTION 13
<p>All disposals of this material must comply with federal, state, and local regulations.</p>

TRANSPORT INFORMATION – SECTION 14	
<b><u>DOT CLASSIFICATION:</u></b>	
<b>UN Number:</b>	Not Regulated for domestic transport.
<b>Class:</b>	
<b>Proper Shipping Name:</b>	
<b>Packing Group:</b>	
<b>Marine Pollutant:</b>	
<b>Other Information:</b>	

<b><u>IATA CLASSIFICATION:</u></b>	
<b>Un Number:</b>	Not Regulated for international air transport.
<b>Class:</b>	

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<b>Proper Shipping Name:</b>	
<b>Packing Group:</b>	
<b>Marine Pollutant:</b>	
<b>Other Information:</b>	
<b><u>IMDG CLASSIFICATION:</u></b>	
<b>Un Number:</b>	Not Regulated for international water transport.
<b>Class:</b>	
<b>Proper Shipping Name:</b>	
<b>Packing Group:</b>	
<b>Marine Pollutant:</b>	
<b>Other Information:</b>	

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

*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.*