



## SAFETY DATA SHEET

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### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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Product Identifier #015

Product Name Sterile Gel Soaked Burn Dressings

Product Use Burn First Aid Treatment

Manufacturer Water Jel Technologies LLC  
50 Broad Street  
Carlstadt, New Jersey 07072

Telephone 201-507-8300  
E-mail Address [www.waterjel.com](http://www.waterjel.com)  
Emergency Telephone 1-800-275-3433  
FAX Number 201-507-8325

Issue Date: 08-25-2015

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### SECTION 2: HAZARDS IDENTIFICATION

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#### Emergency Overview:

Sterile Gel Soaked Burn Dressings are non-woven substrates with a fluid viscous gel. This product is intended for first aid treatment of burns to ease pain and provide a barrier against contamination until medical assistance is provided. This product is regulated by the US FDA as a medical device. The SDS is for the gel only.

Consult the package for use directions and warnings information.

#### Warnings: For External Use Only.

When using this product, avoid contact with the eyes.

If swallowed, get medical help or contact a Poison Control Center immediately.

Physical Hazards: This mixture does not meet the classification criteria according to OSHA Hazcom 2012.  
Health Hazards: This mixture does not meet the classification criteria according to OSHA Hazcom 2012.  
Environmental Hazards: This mixture does not meet the classification criteria according to OSHA Hazcom 2012.  
OSHA Defined Hazards: This mixture does not meet the classification criteria according to OSHA Hazcom 2012.

#### Label Elements:

Hazard Symbol: None

Signal Word: None

Hazard Statement: The mixture does not meet the criteria for classification.

#### Precautionary Statement:

Prevention	None required according to OSHA Hazcom 2012.
Response	None required according to OSHA Hazcom 2012.
Storage	None required according to OSHA Hazcom 2012.
Disposal	None required according to OSHA Hazcom 2012.

#### Hazards not otherwise

Classified (HNOC): None known.

Supplemental Information: None.



## SAFETY DATA SHEET

### Route of Entry:

**Skin Contact:** May cause irritation, redness, inflammation or dryness.  
**Skin Absorption:** No adverse conditions expected.  
**Eye Contact:** Flush eyes with clear running water for a minimum of 15 minutes; if irritation persists, seek medical attention.  
**Inhalation:** Unlikely route of exposure.  
**Ingestion:** May cause irritation of the digestive tract.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixtures

Chemical Name	Common Name and Synonyms	CAS Number	%
Glycerin	1, 2, 3, Propanetriol	56-81-5	Proprietary
Propylene Glycol	1, 2, 3, Propanetriol 2-Hydroxypropanol	57-55-6	Proprietary

### SECTION 4: FIRST AID MEASURES

**Skin Contact:** Wash off with warm water and soap. Get medical attention if symptoms occur.  
**Skin Absorption:** No adverse conditions expected.  
**Eye Contact:** Flush eyes with clear running water for a minimum of 15 minutes; if irritation persists, seek medical attention.  
**Inhalation:** Unlikely route of exposure.  
**Ingestion:** May cause irritation of the digestive tract.

### SECTION 5: FIRE-FIGHTING MEASURES

**Flammable:** No  
**Means of Extinction:** Use extinguishing media appropriate for surrounding fire. Use water spray, foam or dry chemical.  
In fires involving large quantities of this product, the use of large streams of water should be avoided.  
Use self-contained breathing apparatus when fighting fires that involve this material.

**Flash Point and Method:** NA  
**Upper Flammable Limit (% by volume):** NA  
**Lower Flammable Limit (% by volume):** NA  
**Autoignition Temperature (°C):** NA  
**Explosion Data – Sensitivity to Impact:** No unusual fire or explosion hazards noted.  
**Explosion Data – Sensitivity to Static Discharge:** No unusual fire or explosion hazards noted.  
**Hazardous Combustion Products:** Carbon oxides. Nitrogen Oxides (NOx).

NFPA Health 1 Fire 0 Reactivity 0 Other NA



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### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Methods and materials  
for containment  
and clean up: Absorb spill with vermiculite or other inert material, then place in a sealed container for  
chemical waste.

Large Spills: Flush with plenty of water. Prevent entry into waterways, sewer, basements or  
confined areas. Dike for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to  
remove residual contamination.

Environmental Precautions: Avoid discharge into drains and water sources.

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### SECTION 7: HANDLING AND STORAGE

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Handling Procedures and Equipment: Keep this and other chemicals out of the reach of children.

Storage Temperature: Do not store or mix with strong acids or oxidizers. Store at room  
temperature.

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### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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Occupational Exposure Limits:

Components	ACGIH-TLVs	OSHA-PELs	NIOSH	Form
Glycerin (CAS 57-55-8)	NE	5 mg/m <sup>3</sup>		Aerosol
Propylene Glycol (CAS 57-55-6)	10 mg/m <sup>3</sup>	NE	NE	Aerosol

Biological Limit Values: No biological Exposure limits noted for the ingredients.

Ventilation and Engineering Controls: Ensure adequate ventilation.

Personal Protective Equipment: None required under normal conditions  
Hand Protection: None required under normal conditions.  
Eye and Face Protection: Eye protection, as necessary to prevent excessive contact.  
Skin Protection: None required under normal conditions.

General Hygiene Considerations: Practice safe work habits.  
Other Protective Equipment: Eye wash stations should be nearby and ready to use.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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Appearance: Gel.  
Physical State: Gel.  
Form: Gel.  
Color: Opaque, white.  
Odor: Medicinal scent.

pH: No information available.  
Boiling Point: 212°F  
Melting Point: No information available.  
Flash Point: N/A

Explosive Properties: No information available.  
Oxidizing Properties: No information available.  
Specific Gravity: 0.997  
Water Solubility: Soluble.  
Partition Coefficient: No information available.  
Viscosity: No information available.  
Vapor Pressure (mm Hg): No information available.  
Vapor Density (Air=1): No information available.  
Evaporation Rate: No information available.  
% Volatile: No information available.

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**SECTION 10: STABILITY AND REACTIVITY**

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Reactivity: The product is stable and non-reactive under normal conditions of use.  
Chemical Stability: Stable at normal conditions.  
Possibility of Hazardous Reactions: Hazardous polymerization does not occur.  
Conditions to Avoid: Extreme heat.  
Materials to Avoid: Strong oxidants and strong acids.  
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.  
Hazardous Polymerization: Will not occur.

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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Symptoms of Overexposure by Route of Exposure:  
The health hazard information provided is for handling this product in an occupational setting.

Effects of Acute and Chronic Exposure:

**Acute:** The primary health effect that may be experienced in an occupational setting is mild irritation of contaminated skin. Accidental ingestion may be harmful. Although unlikely, irritation can irritate the respiratory system. Eye contact will cause irritation.

**Chronic:** NE

Target Organs: **Acute:** Occupational exposure: Skin, eyes.  
**Chronic:** Occupational exposure: Skin.

Inhalation:

Although unlikely due to form of product, vapors may slightly irritate the nose, throat and lungs. Symptoms are generally alleviated upon breathing fresh air.





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**Skin Contact:**

Skin contact may cause burning sensation, stinging, itching and tingling.

**Eye Contact:**

Eye contact can cause irritation, stinging, redness and tearing.

**Ingestion:**

Ingestion is not a significant route of occupational overexposure. Acute ingestion of large quantities of this product or chronic ingestion may cause adverse symptoms that may include nausea, vomiting and diarrhea.

**Irritancy of the Product:**

This product may cause mild to moderate irritation on damaged skin.

**Skin Sensitization:**

Not expected.

**Respiratory Sensitization:**

Not likely due to form of product.

**LD50/LC50:**

**Propylene Glycol (CAS 57-55-6)**

- Oral (rat): 2200mg/k
- Dermal: (rabbit) 20800 mg/k

**Glycerin (Mist):**

- Oral (rat): 12,600 mg/kg
- Subcutaneous (rat): Not Available

**Carcinogenicity:** Not classified as a human carcinogen by IARC or ACGIH.

**Reproductive Toxicity:**

**Mutagenic/Embryo Toxicity:** The components of this product are not reported to cause mutagenic or embryonic effects in humans.

**Teratogenicity:** Not available.

**Reproductive Toxicity:** Not available.

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### SECTION 12: ECOLOGICAL INFORMATION

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No specific information is currently available on the effect of this product on plants or animals in the environment. The product may be harmful to contaminated terrestrial and aquatic plant life in large quantities. The following aquatic toxicity data currently available for components of this product:

**Propylene Glycol:**

EC50 Green Algae (*Desmodesmus subspicatus*) 19000 mg/l 96 hours

EC50 Water Flea (*Daphnia magna*) 43500 mg/l 48 hours

LC 50 Fathead Minnow (*Pimephales promelas*) 46500 mg/l 96 hours

**Environmental Exposure Controls:** Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

No component of this product is known to have ozone depletion potential.



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### SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Instructions: Collect or dispose in sealed containers at licensed waste disposal site.  
Dispose in accordance with local, state and federal regulations.

### SECTION 14: TRANSPORT INFORMATION

DOT Classification: Not regulated for Domestic Transport.  
IATA Classification: Not regulated for International Transport.  
IMDG Classification: Not regulated for International Water Transport.

### SECTION 15: REGULATORY INFORMATION

#### U.S. Federal Regulations:

TSCA (TOXIC SUBSTANCE CONTROL ACT): Not regulated.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): Not listed.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT) 304: Not regulated.

SARA 311/312 HAZARD CATEGORIES: Not regulated.

SARA 313 REPORTABLE INGREDIENTS: Not listed.

#### STATE REGULATIONS:

##### California Prop 65:

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

##### New Jersey RTK:

Glycerin (CAS 56-81-5)  
Propylene Glycol (CAS 57-55-6)

##### Massachusetts RTK:

Not Listed.

##### Pennsylvania RTK:

Propylene Glycol (CAS 57-55-6)

#### INTERNATIONAL REGULATIONS:

Country or Region	Inventory Name	Listed
Australia	Australia Inventory of Chemical Substances	No
Canada	Domestic Substance List (DSL)	Yes
Canada	Non-Domestic Substance List (NDSL)	No
China:	Inventory of Existing Chemical Substances In China (IECSC)	Yes
Europe	European List of Notified Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substance Control Act (TSCA) Inventory	No



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**Note:** A "Yes" indicates that all components comply with the inventory requirements administered by the governing country.  
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.

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### SECTION 16: OTHER INFORMATION

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**Issue Date:** 08-25-2015

**Version:** 02

**Disclaimer:**

The information provided in this Safety Data Sheet (SDS) is accurate to the best of our knowledge. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or processes.

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# SAFETY DATA SHEET

Issuing Date 05-June-2015

Revision Date 29-Jun-2015

Revision Number 2



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

### Product identifier

Product Name EYEWASH

### Other means of identification

Synonyms None

### Recommended use of the chemical and restrictions on use

Recommended Use Medicinal products

Uses advised against No information available

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

Supplier Name NIAGARA PHARMACEUTICALS INC.

Supplier Address 60 INNOVATION DRIVE  
FLAMBOROUGH  
ON  
L9H7P3  
CA

Supplier Phone Number Phone:905-690-6277  
Fax:905-690-6281

Supplier Email rjames@niagarapharmaceuticals.com

### Emergency telephone number

Company Emergency Phone Number 905-708-7962

## 2. HAZARDS IDENTIFICATION

### Classification

The Eyewash is an approved drug by the FDA used for cleansing the eye to help irritation or burning by removing loose foreign material. This drug product is considered exempt from SDS by 2012 OSHA Hazard Communication Standard (29 CFR 1910.2100 (b) (6) (vii)).



**GHS Label elements, including precautionary statements****Precautionary Statements - Prevention**

For single use

**Precautionary Statements - Response**

If concerned get medical attention

**Precautionary Statements - Storage**

None

**Precautionary Statements - Disposal**

Dispose of contents/container in accordance with local regulations

**Hazards not otherwise classified (HNOC)**

Not applicable

**Unknown Toxicity**

0% of the mixture consists of ingredient(s) of unknown toxicity

**Other information**

No information available

**Interactions with Other Chemicals**

No information available.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No	Weight-%	Trade Secret
Boric acid (H3BO3)	10043-35-3	1 - 5	*
Sodium borate	1330-43-4	0.1 - 1	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret

**4. FIRST AID MEASURES****First aid measures****Eye contact**

The product is for cleansing the eye to help relieve irritation or burning by removing loose foreign material.

**Skin contact**

None

**Inhalation**

None

**Ingestion**

Rinse mouth immediately and drink plenty of water. Never give anything by mouth





to an unconscious person.

**Most important symptoms and effects, both acute and delayed**

**Most Important Symptoms and Effects** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media**

None

**Unsuitable extinguishing media**

No information available

**Specific hazards arising from the chemical**

None

**Hazardous Combustion Products**

None

**Explosion Data**

**Sensitivity to Mechanical Impact** No.

**Sensitivity to Static Discharge** No.

**Protective equipment and precautions for firefighters**

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

**6. ACCIDENTAL RELEASE MEASURES**

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

**Personal precautions** None

**Environmental precautions**

**Environmental precautions** Refer to protective measures listed in Sections 7 and 8.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage.

**Methods for cleaning up** Soak up with absorbent material.



## 7. HANDLING AND STORAGE

### Precautions for safe handling

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

### Conditions for safe storage, including any incompatibilities

**Storage** Store as sealed bottle. Do not use if seal is missing or broken. For single use only.

**Incompatible Products** None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Boric acid (H <sub>3</sub> BO <sub>3</sub> ) 10043-35-3	TWA: 2 mg/m <sup>3</sup> inhalable fraction STEL: 6 mg/m <sup>3</sup> inhalable fraction	-	
Sodium borate 1330-43-4	STEL: 6 mg/m <sup>3</sup> inhalable fraction TWA: 2 mg/m <sup>3</sup> inhalable fraction	(vacated) TWA: 10 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>

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

**Other Exposure Guidelines** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992)

### Appropriate engineering controls

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

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

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

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

**Respiratory protection** No protective equipment is needed under normal use conditions..

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





## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

Physical state	Liquid	<b>Odor</b>	Odorless
Appearance	Clear, colorless. No visual impurities	<b>Odor Threshold</b>	No information available
Color	No information available		

Property	Values	Remarks	Method
pH	7.4	None known	
Melting / freezing point	No data available	None known	
Boiling point / boiling range	No data available	None known	
Flash Point	No data available	None known	
Evaporation Rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limit in Air			
Upper flammability limit	No data available		
Lower flammability limit	No data available		
Vapor pressure	No data available	None known	
Vapor density	No data available	None known	
Specific Gravity	1	None known	
Water Solubility	Completely soluble	None known	
Solubility in other solvents	No data available	None known	
Partition coefficient: n-octanol/water	No data available	None known	
Autoignition temperature	No data available	None known	
Decomposition temperature	No data available	None known	
Kinematic viscosity	No data available	None known	
Dynamic viscosity	No data available	None known	
Explosive properties	No data available		
Oxidizing properties	No data available		

### Other Information

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

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Hazardous Polymerization

Hazardous polymerization does not occur.

### Conditions to avoid

None known based on information supplied.

### Incompatible materials

None known based on information supplied.

### Hazardous Decomposition Products

None known



## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available.

#### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Boric acid (H3BO3) 10043-35-3	= 2660 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 2.03 mg/L ( Rat ) 4 h
Sodium borate 1330-43-4	= 2403 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	-

### Information on toxicological effects

**Symptoms** No information available.

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

<b>Sensitization</b>	No information available.
<b>Mutagenic Effects</b>	No information available.
<b>Carcinogenicity</b>	The table below indicates whether each agency has listed any ingredient as a carcinogen.
<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Chronic Toxicity</b>	No known effect based on information supplied.
<b>Target Organ Effects</b>	No information available..
<b>Aspiration Hazard</b>	No information available.

### Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document  
Not applicable





## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Boric acid (H <sub>3</sub> BO <sub>3</sub> ) 10043-35-3		72h LC50: = 1020 mg/L ( <i>Carassius auratus</i> )		48h EC50: 115 - 153 mg/L
Sodium borate 1330-43-4	96h EC50: = 158 mg/L ( <i>Desmodesmus subspicatus</i> ) 96h EC50: 2.6 - 21.8 mg/L ( <i>Pseudokirchneriella subcapitata</i> )	96h LC50: = 340 mg/L ( <i>Limanda limanda</i> )		48h LC50: 1085 - 1402 mg/L

### Persistence and Degradability

No information available.

### Bioaccumulation

Chemical Name	Log Pow
Boric acid (H <sub>3</sub> BO <sub>3</sub> ) 10043-35-3	-0.757

### Other adverse effects

No information available.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

#### Disposal methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

#### Contaminated Packaging

Dispose of contents/containers in accordance with local regulations.

#### California Hazardous Waste Codes 561

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Boric acid (H <sub>3</sub> BO <sub>3</sub> ) 10043-35-3	Toxic

## 14. TRANSPORT INFORMATION

### DOT

Proper Shipping Name

NOT REGULATED  
NON REGULATED



<b>Hazard Class</b>	N/A
<b><u>TDG</u></b>	Not regulated
<b><u>MEX</u></b>	Not regulated
<b><u>ICAO</u></b>	Not regulated
<b><u>IATA</u></b>	Not regulated
<b>Proper Shipping Name</b>	NON REGULATED
<b>Hazard Class</b>	N/A
<b><u>IMDG/IMO</u></b>	Not regulated
<b>Hazard Class</b>	N/A
<b><u>RID</u></b>	Not regulated
<b><u>ADR</u></b>	Not regulated
<b><u>ADN</u></b>	Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

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

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

### US Federal Regulations

#### SARA 313

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

#### SARA 311/312 Hazard Categories

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

#### CWA (Clean Water Act)

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

#### CERCLA

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

### US State Regulations

#### California Proposition 65



This product does not contain any Proposition 65 chemicals.

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Sodium borate 1330-43-4		X	X		

### International Regulations

Component	Carcinogen Status	Exposure Limits
Sodium borate 1330-43-4 (0.1 - 1)		Mexico: TWA 1 mg/m <sup>3</sup>

#### Canada

#### WHMIS Hazard Class

Not determined

## 16. OTHER INFORMATION

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

#### Prepared By

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

#### Revision Date

29-Jun-2015

#### Revision Note

No information available

#### Disclaimer

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

**End of Safety Data Sheet**



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**SAFETY DATA SHEET**

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**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

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**Product Identifier** #008

**Product Name** Hand Sanitizer

**Product Use** Topical Skin Preparation

**Manufacturer** Water Jel Technologies LLC  
50 Broad Street  
Carlstadt, New Jersey 07072

**Telephone** 201-507-8300  
**E-mail Address** [www.waterjel.com](http://www.waterjel.com)  
**Emergency Telephone** 1-800-275-3433  
**FAX Number** 201-507-8325

**Issue Date:** 08-25-2015

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**SECTION 2: HAZARDS IDENTIFICATION**

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**Emergency Overview:**

This product is regulated by the US FDA as an over-the-counter, monograph drug.

For Consumers, consult the Drug Facts on the package for use directions and warnings information.

**Warnings: For External Use Only.**

When using this product, avoid contact with the eyes.

Do not use on large areas of the body or on broken, blistered or oozing skin.

Stop use and ask a doctor if condition worsens or symptoms persist for more than 7 days.

If swallowed, get medical help or contact a Poison Control Center immediately.

**Physical Hazards:** Flammable liquid Category 3.  
**Health Hazards:** Serious eye damage/eye irritation Category 2A.  
Specific target organ toxicity, single exposure Category 3 narcotic effects.  
**Environmental Hazards:** This mixture does not meet the classification criteria according to OSHA Hazcom 2012.  
**OSHA Defined Hazards:** This mixture does not meet the classification criteria according to OSHA Hazcom 2012.

**Label Elements:**

**Hazard Symbol:**

**Signal Word:** Danger

**Hazard Statement:** Flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness.



## SAFETY DATA SHEET

### Precautionary Statement:

Prevention	Keep away from heat, sparks, open flames or hot surfaces. No smoking. Ground bond container and receiving equipment. Use explosion proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Use only in well ventilated area. Wear protective gloves, clothing and eye and face protection. Avoid breathing mist or vapor. Wash Hands thoroughly after handling.
Response	If on skin: Take off contaminated clothing. Rinse skin with water. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a Poison Center. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing. If eye irritation persists get medical attention.
Storage	Store in well ventilated area. Keep container tightly closed. Keep cool.
Disposal	Dispose of contents/container in accordance with local, state, federal regulations.

### Hazards not otherwise

Classified (HNOC): None known.

Supplemental Information: None.

### Route of Entry:

Skin Contact:	May cause minor irritation, redness, inflammation or dryness.
Skin Absorption:	No adverse conditions expected.
Eye Contact:	May cause severe eye irritation.
Inhalation:	May cause irritation of the upper respiratory tract.
Ingestion:	May cause irritation of the digestive tract.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixtures

Chemical Name	Common Name and Synonyms	CAS Number	%
Ethyl Alcohol	Ethanol	64-17-5	62.0
Propylene Glycol	1, 2, 3, Propanetriol 2-Hydroxypropanol	57-55-6	Proprietary

### SECTION 4: FIRST AID MEASURES

Skin Contact:	Wash off with warm water and soap. Get medical attention if symptoms occur.
Skin Absorption:	No adverse conditions expected.
Eye Contact:	Flush eyes with clear running water for a minimum of 15 minutes; if irritation persists, seek medical attention.
Inhalation:	Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms persist.
Ingestion:	If swallowed, rinse mouth with water. Do not induce vomiting. Get medical attention.



## SAFETY DATA SHEET

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### SECTION 5: FIRE-FIGHTING MEASURES

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**Flammable:** Yes  
**Means of Extinction:** Use extinguishing media appropriate for surrounding fire. Use water spray, foam or dry chemical.  
In fires involving large quantities of this product, the use of large streams of water should be avoided.  
Use self-contained breathing apparatus when fighting fires that involve this material.

**Flash Point and Method:** NA  
**Upper Flammable Limit (% by volume):** NA  
**Lower Flammable Limit (% by volume):** NA  
**Autoignition Temperature (°C):** NA  
**Explosion Data – Sensitivity to Impact:** No unusual fire or explosion hazards noted.  
**Explosion Data – Sensitivity to Static Discharge:** No unusual fire or explosion hazards noted.  
**Hazardous Combustion Products:** Carbon oxides. Nitrogen Oxides (NOx).

**NFPA**    **Health 2**            **Fire 3**            **Reactivity 0**            **Other NA**

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

**Methods and materials  
for containment  
and clean up:**

Absorb spill with vermiculite or other inert material, then place in a sealed container for chemical waste.

**Large Spills:** Flush with plenty of water. Prevent entry into waterways, sewer, basements or confined areas. Dike for later disposal.

**Small Spills:** Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

**Environmental Precautions:** Avoid discharge into drains and water sources.

### SECTION 7: HANDLING AND STORAGE

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**Handling Procedures and Equipment:** Keep this and other chemicals out of the reach of children.

**Storage Temperature:** Do not store or mix with strong acids or oxidizers. Store at room temperature.



## SAFETY DATA SHEET

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Occupational Exposure Limits:

Components	ACGIH-TLVs	OSHA-PELs
Ethyl Alcohol (CAS 64-17-5)	1000 ppm TWA (1900 mg/m <sup>3</sup> )	1000 ppm TWA (1900 mg/m <sup>3</sup> )
Propylene Glycol (CAS 57-55-6)	10 mg/m <sup>3</sup>	NE

**Aerosol Biological Limit Values:** No biological Exposure limits noted for the ingredients.

**Ventilation and Engineering Controls:** Ensure adequate ventilation.

**Personal Protective Equipment:** None required under normal conditions  
**Hand Protection:** None required under normal conditions.  
**Eye and Face Protection:** Eye protection, as necessary to prevent excessive contact.  
**Skin Protection:** None required under normal conditions.

**General Hygiene Considerations:** Practice safe work habits.  
**Other Protective Equipment:** Eye wash stations should be nearby and ready to use.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Gel.  
**Physical State:** Gel.  
**Form:** Gel.  
**Color:** Clear.  
**Odor:** Mild alcoholic.  
**pH:** No information available.  
**Boiling Point:** 175°F  
**Melting Point:** No information available.  
**Flash Point:** 72°F closed cup  
**Explosive Properties:** No information available.  
**Oxidizing Properties:** No information available.  
**Specific Gravity:** 0.90  
**Water Solubility:** Soluble.  
**Partition Coefficient:** No information available.  
**Viscosity:** No information available.  
**Vapor Pressure (mm Hg):** 40  
**Vapor Density (Air=1):** 1.6  
**Evaporation Rate:** >1  
**% Volatile:** 100

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**SAFETY DATA SHEET**

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**SECTION 10: STABILITY AND REACTIVITY**

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Reactivity: The product is stable and non-reactive under normal conditions of use.  
Chemical Stability: Stable at normal conditions.  
Possibility of Hazardous Reactions: Hazardous polymerization does not occur.  
Conditions to Avoid: Extreme heat and sources of ignition.  
Materials to Avoid: Strong oxidants and strong acids.  
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.  
Hazardous Polymerization: Will not occur.

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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**Symptoms of Overexposure by Route of Exposure:**  
The health hazard information provided is for handling this product in an occupational setting.

**Effects of Acute and Chronic Exposure:**

**Acute:** The primary health effect that may be experienced in an occupational setting is mild irritation of contaminated skin. Accidental ingestion may be harmful. Although unlikely, irritation can irritate the respiratory system. Eye contact will cause irritation.

**Chronic:** NE

**Target Organs:** Acute: Occupational exposure: Eyes.  
Chronic: Occupational exposure: Skin.

**Inhalation:**  
Vapors may slightly irritate the nose, throat and lungs. Symptoms are generally alleviated upon breathing fresh air.

**Skin Contact:**  
Skin contact may cause burning sensation, stinging, itching and tingling.

**Eye Contact:**  
Eye contact can cause irritation, stinging, redness and tearing.

**Ingestion:**  
Ingestion is not a significant route of occupational overexposure. Acute ingestion of large quantities of this product or chronic ingestion may cause adverse symptoms that may include nausea, vomiting and diarrhea.

**Irritancy of the Product:**  
This product may cause mild to moderate irritation on damaged skin.

**Skin Sensitization:**  
Not expected.

**Respiratory Sensitization:**  
Not likely due to form of product.

**LD50/LC50:**

**Ethyl Alcohol:**

- Oral (rodent, rat): 7060 mg/kg
- Inhalation: (rodent, rat): 20000 ppm/10H

**Propylene Glycol (CAS 57-55-6)**



## SAFETY DATA SHEET

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- Oral (rat): 2200mg/k
- Dermal: (rabbit) 20800 mg/k

Carcinogenicity: Not classified as a human carcinogen by IARC or ACGIH.

Reproductive Toxicity:

**Mutagenic/Embryo Toxicity:** The components of this product are not reported to cause mutagenic or embryonic effects in humans.

**Teratogenicity:** Not available.

**Reproductive Toxicity:** Not available.

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### SECTION 12: ECOLOGICAL INFORMATION

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No specific information is currently available on the effect of this product on plants or animals in the environment. The product may be harmful to contaminated terrestrial and aquatic plant life in large quantities. The following aquatic toxicity data currently available for components of this product:

Ethyl Alcohol:

EC50 Crustacea - Water Flea (*Daphnia magna*) 5012 mg/l 48 hours  
EC50 Green algae (*Selenastrum capricornutum*) 1000 mg/l 96 hours  
LC 50 Fathead Minnow (*Pimephales promelas*) 100 mg/l 96 hours

Propylene Glycol:

EC50 Green Algae (*Desmodesmus subspicatus*) 19000 mg/l 96 hours  
EC50 Water Flea (*Daphnia magna*) 43500 mg/l 48 hours  
LC 50 Fathead Minnow (*Pimephales promelas*) 46500 mg/l 96 hours

**Environmental Exposure Controls:** Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

No component of this product is known to have ozone depletion potential.

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### SECTION 13: DISPOSAL CONSIDERATIONS

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**Disposal Instructions:** Collect or dispose in sealed containers at licensed waste disposal site.  
Dispose in accordance with local, state and federal regulations.

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### SECTION 14: TRANSPORT INFORMATION

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**DOT Classification:** UN Number: UN1170  
UN Proper Shipping Name: Ethanol Solution  
Transport Hazard Class: Class 3  
Labels: 3  
Packing Group: III  
Special Provisions: 24, B1, IB3, T2, TP!  
Packaging Exceptions: 4b, 150  
Packaging Non Bulk: 203  
Packaging Bulk: 242



## SAFETY DATA SHEET

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**IATA Classification:**            **UN Number:**        **UN1170**  
**UN Proper Shipping Name:** **Ethanol Solution**  
**Transport Hazard Class:**    **Class 3**  
**Packing Group:**            **II**  
**Environmental Hazards:**     **No**  
**ERG Code:**                 **3L**  
**Passenger and cargo aircraft:**       **Allowed.**  
**Cargo aircraft only:**         **Allowed.**

**IMDG Classification:**         **UN Number:**        **UN1170**  
**UN Proper Shipping Name:** **Ethanol Solution Isopropanol (Isopropyl Alcohol)**  
**Transport Hazard Class:**    **Class 3**  
**Packing Group:**            **II**  
**Marine pollutant:**         **No**  
**EmS:**                         **F-E, S-D**

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### SECTION 15: REGULATORY INFORMATION

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**U.S. Federal Regulations:**

**TSCA (TOXIC SUBSTANCE CONTROL ACT):**        **Not regulated.**

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):**        **Listed.**  
**Ethanol (CAS 64-17-5)**

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT) Emergency Release Notification:**  
**Hazard Category: Immediate Hazard**  
**Fire Hazard**

**SARA 304 EMERGENCY RELIEF NOTIFICATION:**        **Not regulated.**

**SARA 302 EXTREMELY HAZARDOUS SUBSTANCE:** **Not listed.**

**SARA 311/312 HAZARDOUS CHEMICAL:**    **Yes**

**SARA 313 REPORTABLE INGREDIENTS:**    **Not regulated.**

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):**    **Not listed.**

**STATE REGULATIONS:**

**California Prop 65:**  
This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

**New Jersey RTK:**  
**Ethanol (CAS 64-17-5)**  
**Triethanolamine (CAS 102-71-6)**  
**Propylene Glycol (CAS 57-55-6)**

**Massachusetts RTK:**  
**Ethanol (CAS 64-17-5)**  
**Triethanolamine (CAS 102-71-6)**

## SAFETY DATA SHEET

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Pennsylvania RTK:  
Ethanol (CAS 64-17-5)  
Propylene Glycol (CAS 57-55-6)  
Triethanolamine (CAS 102-71-6)

### INTERNATIONAL REGULATIONS:

Country or Region	Inventory Name	Listed
Australia	Australia Inventory of Chemical Substances	Yes
Canada	Domestic Substance List (DSL)	Yes
Canada	Non-Domestic Substance List (NDSL)	No
China:	Inventory of Existing Chemical Substances In China (IECSC)	Yes
Europe	European List of Notified 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 Substance Control Act (TSCA) Inventory	Yes

Note: A "Yes" indicates that all components comply with the inventory requirements administered by the governing country.  
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.

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### SECTION 16: OTHER INFORMATION

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Issue Date: 08-25-2015

Version: 02

#### Disclaimer:

The information provided in this Safety Data Sheet (SDS) is accurate to the best of our knowledge. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or processes.



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Reviewed on 5/9/16

## SAFETY DATA SHEET

### SECTION 1. Product and Company Identification

**PRODUCT NAME:** Alcohol Preparation Pads/Swab

**RECOMMENDED USE:** Topical skin antiseptic

**Product Code:** AM-20200, 1113, 1114, 1116, PK-1114

**Manufacturer's Name:** Dynarex Corporation

**Manufacturer's Address:** 10 Glenshaw Street  
Orangeburg, NY 10962

**Emergency or Information Phone No.:** 888-DYNAREX or 845-365-8200  
At other times, contact the local Poison Control Center

### SECTION 2. Hazards Identification

<u>Physical hazards</u>	Flammable solids	Category 1
<u>Health hazards</u>	Serious eye damage/eye irritation	Category 2A
<u>Environmental hazards</u>	Not determined.	
<u>OSHA defined hazards</u>	None additional.	



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Label elements



Signal word  
Hazard statement

Danger  
Flammable solid  
Causes serious eye irritation

Precautionary statement

Prevention  
Keep away from heat/sparks/open flames/hot surfaces – No smoking. Use only in a well-ventilated area.

Response  
If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. In case of fire: use appropriate media to extinguish.

Storage  
Store in a well-ventilated place.

Disposal  
Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise Classified (HNOC)  
None known.





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## Supplemental information

### Main Hazards:

Highly flammable; irritation to eyes; vapor may cause drowsiness and dizziness

### Absorption:

Eye contact; ingestion; inhalation; skin contact

### Carcinogenic Status:

Not considered carcinogenic by NTP, IARC, and OSHA

### Target Organs:

Central nerves system; skin; eye; liver; respiratory system

### Health Effects:

#### **Eyes**

Liquid, mist or vapor will cause conjunctival irritation and possible corneal damage.

#### **Skin**

Repeated or prolonged contact may produce defatting of the skin leading to irritation and dermatitis. Liquid may be absorbed through the skin but not in toxicologically significant amounts, unless the contact area is large and under prolonged exposure.

#### **Ingestion**

Swallowing a small amount may have the effect of any of these symptoms: irritation of mouth, throat, digestive tract, and central nerves system depression.

A large dose may have the effect of any of these symptoms: dizziness, drowsiness, headache, mental confusion, nerve damage leading to numbness



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and muscle weakness, fall of blood pressure, liver damage, lung damage.

**Inhalation**

Exposure to vapor may have the effect of any of these symptoms: irritation of nose, throat and respiratory tract, central nerve system depression.

Exposure to vapor at high concentration may have the effects of any of these symptoms: dizziness, drowsiness, headache, mental confusion, lung damage, fall of blood pressure, liver damage, nerve damage leading to numbness and muscle weakness.

**SECTION 3. Composition/information on Ingredients**

Hazardous Ingredients (specific)	% Composition	CAS Number
Isopropyl Alcohol (2-Propanol)	70%	67-63-0
Inactive Ingredient		
Water	30%	7732-18-5

**SECTION 4. First-aid measures**

Eyes:

Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

Skin:

Immediately flood the affected skin area with large quantity of water, preferably under a shower. Remove contaminated clothing and continue washing. Contaminated clothing should be washed thoroughly before re-use. Obtain medical attention if blistering of the skin occurs or redness persists.

Ingestion:

Do not induce vomiting. Have victim drink several large glasses of water to dilute the stomach contents. Give the victim oxygen if he/she has difficulty in



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breathing. Obtain medical attention immediately.

Inhalation:

Remove the victim from exposure immediately. Give the victim oxygen if he/she has difficulty in breathing. Obtain medical attention immediately.

MEDICAL PERSONNEL:

Monitor the victim for systemic secondary effects on liver and kidney functions. Support and treat as appropriate.

## **SECTION 5. Fire-fighting measures**

Flash Point – 20°C/68°F

Boiling Point – 80°C/176°F

Extinguishing Media – Dry Chemical or Alcohol Type Foam, Carbon Dioxide

Be aware of the possibility of re-ignition. Keep containers and surroundings cool with water spray.

Unusual Fire and Explosion Hazards –

Class 3 Flammability. Vapor can travel a considerable distance to a source of ignition and flashback. Flashback can occur if air temperature exceeds flash point. Be aware the possibility of re-ignition.

Special Fire Fighting Procedures –

Handle as Flammable Liquid. Use Respiratory Protection. Wear full protective clothing for Fire Fighting Personnel.

## **SECTION 6. Accidental release measures**

- Flush spills with water.



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- Contain and absorb using soil, sand, or other inert material.
- Vapor can accumulate in low areas. Consider the need for evacuation.
- Prevent the material from entering drains or water courses.

## **SECTION 7. Handling and storage**

- Eliminate all sources of ignition. Store away from heat.
- Store in well ventilated area.
- Handle as flammable liquid. Follow local, state and federal regulations.
- Avoid inhaling vapor. Avoid contact with eyes, skin and clothing.
- Wear eye protection if splashing is expected.
- Wear appropriate protective clothing.
- Use respirator if exposure level is high when handling bulk liquid.
- Keep container tightly closed when not in use.

## **SECTION 8. Exposure controls/personal protection**

- OSHA Occupation Exposure Standards PEL 400ppm (980mg/m<sup>3</sup>) 8h TWA
- UK EH40: OES 400ppm (980mg/m<sup>3</sup>) 8h TWA
- UK EH40: OES 500ppm (1225mg/m<sup>3</sup>) 15min TWA
- ACGIH: TLV 200ppm (980mg/m<sup>3</sup>) 8h TWA
- ACGIH: STEL 400ppm (1225mg/m<sup>3</sup>) 15min TWA
- Personal Protective Equipment
  - Gloves
  - Eye
  - Clothing

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

Appearance – Liquid Saturated Towelette / Pad / Swab



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Color – Clear  
Odor – Alcohol  
Vapor Density – 2.1 (Air = 1)  
Viscosity (cSt) – 2.9 cps at <@2> °C

Evaporation Rate – Environmental Dependent  
Water Solubility – Complete  
Specific Gravity – 0.8405

## SECTION 10. Stability and reactivity

Stability –	Stable under normal conditions
Conditions to Avoid –	None
Incompatibility –	None
Hazardous Decomposition or By-product –	Oxides of carbon
Polymerization –	Will Not Occur.

## SECTION 11. Toxicological information

### Acute Toxicity

- Low level of acute toxicity predicted.
- May be harmful by skin absorption.
- Oral LD50 (rat) 5045mg/kg.
- Dermal LD50 (rabbit) 12800mg/kg.
- Inhalation LCLO (rat) 1600ppm 4h.

### Chronic Toxicity / Carcinogenicity

- Material not expected to cause long-term adverse health effects.
- Material not classifiable as to its carcinogenicity to humans (Group 3).
- Chronic / Sub-chronic studies resulted in adverse effects to:





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- Liver, spleen, biochemical effects, brain tissue degeneration, changes in reflex behavior, sensory nerve damage.

#### Genealogy Toxicity

- Material is not expected to cause any mutagenic effects.

#### Reproductive / Developmental Toxicity

- Material is not expected to cause reproductive or developmental health effects.
- Experimental studies in animals have provided some evidence of embryo / fetus toxicity and birth defects only at doses producing marked maternal toxicity.

### **SECTION 12. Ecological information**

- Mobility
- If released to soil, IPA is expected to have very high mobility
- Persistence / Degradability
- IPA is readily degraded in aerobic aqueous systems
- Bio-accumulation
  
- Low potential for bio-concentration in aquatic organisms

### **SECTION 13. Disposal considerations**

- Transfer into suitable containers for recovery or disposal.
- Dispose in accordance with all applicable local and national regulations.
- Do not remove labels from container until the container has been cleaned.
- Do not cut, puncture or weld on or near the container.
- Do not incinerate closed containers.
- Empty containers may contain hazardous residues



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## SECTION 14. Transport information

### US DOT Information:

**Shipping Name:** Not applicable

**Hazard Class:** Not applicable

**UN/NA #:** Not regulated per 49 CFR, Special Provision 47 (for rail and road transport in the USA)

**Packing Group:** Not applicable

**Required Label(s):** Not applicable

**Additional Information:** No additional information available

### IATA Information:

**Shipping Name:** Not applicable

**Hazard Class:** Not applicable

**UN#:** Not regulated, as per IATA, Special Provision A46

**Packing Group:** Not applicable

**Required Label(s):** Not applicable

**Additional information:** Consult current IATA regulations prior to shipping by air

### IMDG Information:

**Shipping Name:** Not applicable

**Hazard Class:** Not applicable

**UN#:** Not regulated, as per IMDG Code, Special Provision 216

**Packing Group:** Not applicable

**Required Label(s):** Not applicable

**Additional information:** No additional information available



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**TDG Information:**

**Shipping Name:** Not applicable

**Hazard Class:** Not applicable

**UN#:** Not regulated

**Packing Group:** Not applicable

**Required Label(s):** Not applicable

**Additional information:** No additional information available

**SECTION 15. Regulatory information**

This product is compliant with the following:

- EU Label: Classification and labeling have been performed according to EU Directive 67/548/EEC and 99/45/EC including amendments
- EU Hazard Symbol and Indication of Danger
- F – Highly flammable
- Xi – Irritant
- R11 – Highly flammable
- R36 – Irritating to eyes
- R67 – Vapors may cause drowsiness and dizziness
- S2 – Keep out of reach of children
- S7 – Keep container tightly closed
- S16 – Keep away from sources of ignition – No smoking
- S24 / S25 – Avoid contact with skin and eyes
- S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- US (Federal and State) Regulations and International Chemical Registration Laws TSCA listing
- This product contains ingredients that are listed on or exempt from listing on the EPA Toxic Substance Control Act Chemical Inventory





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- This product does not contain any chemicals subject to EPA Title III of the SARA Listing in Sections 302 and 304
- All ingredients in this product are listed on the European Inventory of Existing Commercial Chemical Substance (EINECS Listing) or are exempted from listing
- All ingredients in this product are listed on the Canada Domestic Substance List (DSL Listing)

## **SECTION 16. Other information**

### Disclaimer:

This Safety Data Sheet, which takes into consideration the requirements of Directive 76/768/EC and subsequent amendments and Directive 1999/45/EC plus subsequent amendments, has been prepared in accordance with Directive (EC) 1907/2006. It is believed to be correct and corresponds to the latest scientific/technical knowledge but all data, instructions, recommendations and/or suggestions are made without guarantee. No warranty, expressed or implied, is made and Dynarex Corp. assumes no legal responsibility or liability resulting from its use.



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Reviewed on 9/16/15

## SAFETY DATA SHEET

### SECTION 1. Product and Company Identification

**PRODUCT NAME:** BZK Antiseptic Towelette

**PRODUCT USE:** Antiseptic

**Product Code:** 1303, 1331

**Manufacturer's Name:** Dynarex Corporation

**Manufacturer's Address:** 10 Glenshaw Street  
 Orangeburg, NY 10962

**Emergency or Information Phone No.:** 888-DYNAREX or 845-365-8200  
 At other times, contact the local Poison Control Center

### SECTION 2. Hazards Identification

Physical hazards	Not classified
Health hazards	Not classified
• Environmental hazards	Not determined
OSHA defined hazards	Not classified
Label elements	
• Hazard symbol	None
• Signal word	Not available
• Hazard statement	Not available
• Precautionary statement	
○ Prevention	Not available
○ Response	Not available
○ Storage	Not available
○ Disposal	Not available
Hazard(s) not otherwise classified (HNOC)	None known
Supplemental information	None



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### SECTION 3. Composition/information on Ingredients

Ingredients	CAS Number	%
BZK	8001-54-5	0.13
Water	7732-18-5	99.87

### SECTION 4. First-aid measures

#### First aid procedures

#### Eye Contact

Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.

#### Skin Contact

In case of skin irritation, discontinue use of product.

#### Inhalation

Not a normal route of exposure. If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

#### Ingestion

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.

#### Notes to physician

Symptoms may be delayed.

#### General advice

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.

**Flammable Limits: N/A**

Flash Point: N/A



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## SECTION 5. Fire-fighting measures

**Flash Point:** Not Available  
**Flammable Limits:** Not Available  
**Extinguishing Media:** Any  
**Special Fire Fighting Procedures:** None  
**Unusual Fire and Explosion Hazards:** None

## SECTION 6. Accidental release measures

**Personal precautions:** 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.

**Methods for containment:** Prevent entry into waterways, sewers, basements or confined areas.

**Methods for cleaning up:** Pick up and discard towel.

## SECTION 7. Handling and storage

**Handling:** Use good industrial hygiene practices in handling this material.

**Storage:** Keep out of reach of children. Store in a closed container away from incompatible materials.

## SECTION 8. Exposure controls/personal protection

**Engineering controls:** General ventilation normally adequate.

**Personal protective equipment**



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<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 and 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.

## SECTION 9. Physical and chemical properties

<b>Appearance/Odor:</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>Boiling Point:</b>	<200°F
<b>Paper Components:</b>	100% Virgin Paper
<b>Specific Gravity:</b>	1

## SECTION 10. Stability and reactivity

**Chemical Stability:** Stable under recommended storage conditions.  
**Incompatibility:** Caustics. Acids. Oxidizers.  
**Hazardous Decomposition Products:** May include and are not limited to: oxides of carbon; hydrogen chloride.  
**Hazardous Polymerization:** Will not occur.  
**Conditions to avoid:** Do not mix with other chemicals.

## SECTION 11. Toxicological information

### Effects of acute exposure

<b>Eye</b>	May cause irritation
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<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.

## SECTION 12. Ecological information

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

## SECTION 13. Disposal considerations

**Waste codes:** Not available





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**Disposal instructions:** 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.

**Waste from residues / unused products:** Not available

**Contaminated packaging:** Not available

## SECTION 14. Transport information

**U.S. Department of Transportation (DOT)** Not regulated as dangerous goods.

**Transportation of Dangerous Goods (TDG - Canada)** Not regulated as dangerous goods.

## SECTION 15. Regulatory information

**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 No chemical

**CERCLA (Superfund) reportable quantity**

Benzene: 10.0000

Benzene, methyl-: 1000.0000

Benzene, (chloromethyl)-: 100.0000

Propylene oxide: 100.0000

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

**Hazard categories**

Immediate Hazard - No

Delayed Hazard - No



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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** WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

## SECTION 16. Other information

Disclaimer:

This Safety Data Sheet, which takes into consideration the requirements of Directive 76/768/EC and subsequent amendments and Directive 1999/45/EC plus subsequent amendments, has been prepared in accordance with Directive (EC) 1907/2006. It is believed to be correct and corresponds to the latest scientific/technical knowledge but all data, instructions, recommendations and/or suggestions are made without guarantee. No warranty, expressed or implied, is made and Dynarex Corp. assumes no legal responsibility or liability resulting from its use.

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## SAFETY DATA SHEET

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### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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Product Identifier #007

Product Name First Aid Burn Cream

Product Use Topical Antiseptic and Analgesic Skin Cream

Manufacturer Water Jel Technologies LLC  
50 Broad Street  
Carlstadt, New Jersey 07072

Telephone 201-507-8300  
E-mail Address [www.waterjel.com](http://www.waterjel.com)  
Emergency Telephone 1-800-275-3433  
FAX Number 201-507-8325

Issue Date: 08-25-2015

### SECTION 2: HAZARDS IDENTIFICATION

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#### Emergency Overview:

This product is regulated by the US FDA as an over-the-counter, monograph drug.

For Consumers, consult the Drug Facts on the package for use directions and warnings information.

#### Warnings: For External Use Only.

When using this product, avoid contact with the eyes.

Do not use on large areas of the body or on broken, blistered or oozing skin.

Stop use and ask a doctor if condition worsens or symptoms persist for more than 7 days.

If swallowed, get medical help or contact a Poison Control Center immediately.

Physical Hazards: This mixture does not meet the classification criteria according to OSHA Hazcom 2012.  
Health Hazards: This mixture does not meet the classification criteria according to OSHA Hazcom 2012.  
Environmental Hazards: This mixture does not meet the classification criteria according to OSHA Hazcom 2012.  
OSHA Defined Hazards: This mixture does not meet the classification criteria according to OSHA Hazcom 2012.

#### Label Elements:

Hazard Symbol: None

Signal Word: None

Hazard Statement: The mixture does not meet the criteria for classification.

#### Precautionary Statement:

Prevention None required according to OSHA Hazcom 2012.

Response None required according to OSHA Hazcom 2012.

Storage None required according to OSHA Hazcom 2012.

Disposal None required according to OSHA Hazcom 2012.

#### Hazards not otherwise

Classified (HNOC): None known.

Supplemental Information: None.



## SAFETY DATA SHEET

### Route of Entry:

**Skin Contact:** May cause irritation, redness, inflammation or dryness.  
**Skin Absorption:** No adverse conditions expected.  
**Eye Contact:** Flush eyes with clear running water for a minimum of 15 minutes; if irritation persists, seek medical attention.  
**Inhalation:** Not expected due to form.  
**Ingestion:** May cause irritation of the digestive tract.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixtures

Chemical Name	Common Name and Synonyms	CAS Number	%
Benzalkonium Chloride		63449-41-2	0.13
Lidocaine HCl		6108-05-0	0.5
Glycerin	1, 2, 3, Propanetriol	56-81-5	Proprietary
Triethanolamine	Trolamine	102-71-6	Proprietary
Propylene Glycol	1, 2, 3, Propanetriol 2-Hydroxypropanol	57-55-6	Proprietary

### SECTION 4: FIRST AID MEASURES

**Skin Contact:** Wash off with warm water and soap. Get medical attention if symptoms occur.  
**Skin Absorption:** No adverse conditions expected.  
**Eye Contact:** Flush eyes with clear running water for a minimum of 15 minutes; if irritation persists, seek medical attention.  
**Inhalation:** Remove victim to fresh air.  
**Ingestion:** May cause irritation of the digestive tract.

### SECTION 5: FIRE-FIGHTING MEASURES

**Flammable:** No  
**Means of Extinction:** Use extinguishing media appropriate for surrounding fire. Use water spray, foam or dry chemical.  
In fires involving large quantities of this product, the use of large streams of water should be avoided.  
Use self-contained breathing apparatus when fighting fires that involve this material.  
**Flash Point and Method:** NA  
**Upper Flammable Limit (% by volume):** NA  
**Lower Flammable Limit (% by volume):** NA  
**Autoignition Temperature (°C):** NA  
**Explosion Data – Sensitivity to Impact:** No unusual fire or explosion hazards noted.  
**Explosion Data – Sensitivity to Static Discharge:** No unusual fire or explosion hazards noted.  
**Hazardous Combustion Products:** Carbon oxides. Nitrogen Oxides (NOx).

NFPA Health 1 Fire 0 Reactivity 0 Other NA



## SAFETY DATA SHEET

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

Methods and materials  
for containment  
and clean up: Absorb spill with vermiculite or other inert material, then place in a sealed container for  
chemical waste.

Large Spills: Flush with plenty of water. Prevent entry into waterways, sewer, basements or  
confined areas. Dike for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to  
remove residual contamination.

Environmental Precautions: Avoid discharge into drains and water sources.

### SECTION 7: HANDLING AND STORAGE

Handling Procedures and Equipment: Keep this and other chemicals out of the reach of children.

Storage Temperature: Do not store or mix with strong acids or oxidizers. Store at room  
temperature.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

Components	ACGIH-TLVs	OSHA-PELs	NIOSH	Form
Glycerin (CAS 57-55-8)	NE	5 mg/m <sup>3</sup>		Aerosol
Propylene Glycol (CAS 57-55-6)	10 mg/m <sup>3</sup>	NE	NE	Aerosol
Triethanolamine (CAS 102-71-6)	5 mg/m <sup>3</sup>	NE	NE	Aerosol

Biological Limit Values: No biological Exposure limits noted for the ingredients.

Ventilation and Engineering Controls: Ensure adequate ventilation.

Personal Protective Equipment:  
Hand Protection: None required under normal conditions.  
Eye and Face Protection: None required under normal conditions.  
Eye protection, as necessary to prevent excessive contact.  
Skin Protection: None required under normal conditions.

General Hygiene Considerations: Practice safe work habits.  
Other Protective Equipment: Eye wash stations should be nearby and ready to use.



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**SAFETY DATA SHEET**

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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Appearance: Cream.  
Physical State: Cream.  
Form: Cream.  
Color: White, homogeneous.  
Odor: Slightly fatty odor.

pH: No information available.  
Boiling Point: 275°F  
Melting Point: No information available.  
Flash Point: N/A  
Explosive Properties: No information available.  
Oxidizing Properties: No information available.  
Specific Gravity: 0.81  
Water Solubility: Miscible.  
Partition Coefficient: No information available.  
Viscosity: No information available.  
Vapor Pressure (mm Hg): No information available.  
Vapor Density (Air=1): No information available.  
Evaporation Rate: No information available.  
% Volatile: No information available.

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**SECTION 10: STABILITY AND REACTIVITY**

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Reactivity: The product is stable and non-reactive under normal conditions of use.  
Chemical Stability: Stable at normal conditions.  
Possibility of Hazardous Reactions: Hazardous polymerization does not occur.  
Conditions to Avoid: Extreme heat.  
Materials to Avoid: Strong oxidants and strong acids.  
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.  
Hazardous Polymerization: Will not occur.

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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Symptoms of Overexposure by Route of Exposure:  
The health hazard information provided is for handling this product in an occupational setting.

Effects of Acute and Chronic Exposure:

**Acute:** The primary health effect that may be experienced in an occupational setting is mild irritation of contaminated skin. Accidental ingestion may be harmful. Although unlikely, irritation can irritate the respiratory system. Eye contact will cause irritation.

**Chronic:** NE

Target Organs: **Acute:** Occupational exposure: Skin, eyes.  
**Chronic:** Occupational exposure: Skin.

Inhalation:  
Mist may slightly irritate the nose, throat and lungs. Symptoms are generally alleviated upon breathing fresh air.



## SAFETY DATA SHEET

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**Skin Contact:**

Skin contact may cause burning sensation, stinging, itching and tingling.

**Eye Contact:**

Eye contact can cause irritation, stinging, redness and tearing.

**Ingestion:**

Ingestion is not a significant route of occupational overexposure. Acute ingestion of large quantities of this product or chronic ingestion may cause adverse symptoms that may include nausea, vomiting and diarrhea.

**Irritancy of the Product:**

This product may cause mild to moderate irritation on damaged skin.

**Skin Sensitization:**

Not expected.

**Respiratory Sensitization:**

Not expected.

**LD50/LC50:**

**Propylene Glycol (CAS 57-55-6)**

- Oral (rat): 2200mg/k
- Dermal: (rabbit) 20800 mg/k

**Triethanolamine:**

- Oral (rat): 6110 mg/kg
- Dermal: (rabbit): >19870 mg/k

**Glycerin (Mist):**

- Oral (rat): 12,600 mg/kg
- Subcutaneous (rat): Not Available

**Carcinogenicity:** Not classified as a human carcinogen by IARC or ACGIH.

**Reproductive Toxicity:**

**Mutagenic/Embryo Toxicity:** The components of this product are not reported to cause mutagenic or embryonic effects in humans.

**Teratogenicity:** Not available.

**Reproductive Toxicity:** Not available.

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### SECTION 12: ECOLOGICAL INFORMATION

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No specific information is currently available on the effect of this product on plants or animals in the environment. The product may be harmful to contaminated terrestrial and aquatic plant life in large quantities. The following aquatic toxicity data currently available for components of this product:

**Propylene Glycol:**

EC50 Green Algae (*Desmodesmus subspicatus*) 19000 mg/l 96 hours

EC50 Water Flea (*Daphnia magna*) 43500 mg/l 48 hours

LC 50 Fathead Minnow (*Pimephales promelas*) 46500 mg/l 96 hours



## SAFETY DATA SHEET

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### Triethanolamine:

EC50 Green Algae (*Desmodesmus subspicatus*) 512 mg/l 72 hours  
NOEC Water Flea (*Daphnia magna*) 16 mg/l 21 days  
LC 50 Fathead Minnow (*Pimephales promelas*) 11800 mg/l 96 hours

Environmental Exposure Controls: Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

No component of this product is known to have ozone depletion potential.

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### SECTION 13: DISPOSAL CONSIDERATIONS

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Disposal Instructions: Collect or dispose in sealed containers at licensed waste disposal site.  
Dispose in accordance with local, state and federal regulations.

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### SECTION 14: TRANSPORT INFORMATION

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DOT Classification: Not regulated for Domestic Transport.  
IATA Classification: Not regulated for International Transport.  
IMDG Classification: Not regulated for International Water Transport.

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### SECTION 15: REGULATORY INFORMATION

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#### U.S. Federal Regulations:

TSCA (TOXIC SUBSTANCE CONTROL ACT): Not regulated.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): Not listed.

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT) 304: Not regulated.

SARA 311/312 HAZARD CATEGORIES: Not regulated.

SARA 313 REPORTABLE INGREDIENTS: Not listed.

#### STATE REGULATIONS:

##### California Prop 65:

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

##### New Jersey RTK:

Glycerin (CAS 56-81-5)  
Propylene Glycol (CAS 57-55-6)  
Triethanolamine (CAS 102-71-6)

##### Massachusetts RTK:

Triethanolamine (CAS 102-71-6)

##### Pennsylvania RTK:

Propylene Glycol (CAS 57-55-6)  
Triethanolamine (CAS 102-71-6)

## SAFETY DATA SHEET

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### INTERNATIONAL REGULATIONS:

<u>Country or Region</u>	<u>Inventory Name</u>	<u>Listed</u>
Australia	Australia Inventory of Chemical Substances	No
Canada	Domestic Substance List (DSL)	Yes
Canada	Non-Domestic Substance List (NDSL)	No
China:	Inventory of Existing Chemical Substances In China (IECSC)	Yes
Europe	European List of Notified Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substance Control Act (TSCA) Inventory	No

Note: A "Yes" indicates that all components comply with the inventory requirements administered by the governing country.  
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.

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### SECTION 16: OTHER INFORMATION

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Issue Date: 08-25-2015

Version: 02

#### Disclaimer:

The information provided in this Safety Data Sheet (SDS) is accurate to the best of our knowledge. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or processes.



# SAFETY DATA SHEET

## SECTION 1: PRODUCT IDENTIFICATION

**PRODUCT:** Urea Cold Pack  
**Product Label Name:** Urea Cold Pack

**Company Name and Address:** Dukal Corporation  
2 Fleetwood Court  
Ronkonkoma, NY 11779

**Emergency Telephone Number:** 631-656-3800

**Recommended use:**

## SECTION 2: HAZARDOUS IDENTIFICATION

**Hazard Class/Category:** Acute Toxicity Cat. 5  
Eye Irritant Cat. 2A  
Skin Irritant Cat. 3

**Hazard Symbol:** No Symbol

**Signal Word, Cautions or Precautionary statements:** WARNING. May be harmful if swallowed or inhaled. Causes eye irritation. Causes skin irritation. Causes respiratory irritation. IF SWALLOWED: Call a POISON CENTER or doctor/physician. Induce vomiting as directed. IF IN EYES: Rinse cautiously with water for at least 15 minutes. Get medical advice/attention. IF ON SKIN: Rinse cautiously with water for several minutes. Take off contaminated clothing and wash before reuse.

### Additional Label Precautions:

Avoid breathing dust.  
Keep container closed.  
Avoid contact with eyes, skin and clothing.  
Use only with adequate ventilation.  
If breathing is difficult, give oxygen. In any case, get medical attention.

**Product Use:** Laboratory Reagent.

**Synonyms:** Carbamide resin; Isourea; Carbonyl diamide; Carbonyldiamine  
**CAS No.:** 57-13-6  
**Molecular Weight:** 60.06

**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).



# SAFETY DATA SHEET

**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.

## SECTION 3: INFORMATION ON INGREDIENTS

Ingredient	CAS No	Percent	Hazardous
Urea	57-13-6	50%	Yes
Water	7732-18-5	50%	No

## SECTION 4: FIRST-AID MEASURES

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

**Skin contact:** Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if symptoms occur

**Eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

**Ingestion:** Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

## SECTION 5: FIRE-FIGHTING MEASURES

**Fire:** Not considered to be a fire hazard.

**Explosion:** Reactions with incompatibles may pose an explosion hazard.

**Fire Extinguishing Media:** Use any means suitable for extinguishing surrounding fire.

**Special Information:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.





## SECTION 6: ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

## SECTION 7: HANDLING AND STORAGE

To preserve product integrity, store at 25C, excursions permitted between 15C and 30C. Store in a tightly closed container. Protect container from physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

## SECTION 8: EXPOSURE CONTROLS

### Airborne Exposure Limits:

#### For Urea:

#### AIHA Workplace Environmental Exposure Limit (WEEL):

10 mg/m<sup>3</sup>, 8-hour TWA

#### Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

#### Personal Respirators (NIOSH Approved):

If the exposure limit is exceeded and engineering controls are not feasible, a half facepiece particulate respirator (NIOSH type N95 or better filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest.. A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator.

### WARNING:

Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. If heat is involved, an ammonia/methylamine, dust/mist cartridge may be necessary.

### Skin Protection:

Wear protective gloves and clean body-covering clothing.

### Eye Protection:

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.



## SAFETY DATA SHEET

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	White crystals or white powder.
<b>Odor:</b>	Develops odor of ammonia.
<b>Solubility:</b>	Very soluble in water.
<b>Specific Gravity:</b>	1.32 @ 20C/4C
<b>pH:</b>	7.2 (10% in water)
<b>% Volatiles by volume @ 21C (70F):</b>	0
<b>Boiling Point:</b>	Decomposes.
<b>Melting Point:</b>	132 - 135C (270 - 275F)
<b>Vapor Density (Air=1):</b>	No information found.
<b>Vapor Pressure (mm Hg):</b>	No information found.
<b>Evaporation Rate (BuAc=1):</b>	No information found.

### SECTION 10: STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under ordinary conditions of use and storage.
<b>Hazardous Decomposition Products:</b>	Urea decomposes upon heating and can form products including ammonia, oxides of nitrogen, cyanuric acid, cyanic acid, biuret, carbon dioxide.
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Incompatibilities:</b>	Urea reacts with calcium hypochlorite or sodium hypochlorite to form the explosive nitrogen trichloride. It is incompatible with sodium nitrite, gallium perchlorate, strong oxidizing agents (permanganate, dichromate, nitrate, chlorine), phosphorus pentachloride, nitrosyl perchlorate, titanium tetrachloride and chromyl chloride.
<b>Conditions to Avoid:</b>	Incompatibles.

### SECTION 11: TOXICOLOGICAL INFORMATION

Urea (100%): Oral rat LD50: 8471 mg/kg. Investigated as a tumorigen, mutagen, and reproductive effector.

### Section 12: ECOLOGICAL INFORMATION

<b>Environmental Fate:</b>	When released to soil, this material will hydrolyze into ammonium in a matter of days to several weeks. When released into the soil, this material may leach into groundwater. When released into water, this material may biodegrade to a moderate extent. When released into water, this material is not expected to evaporate significantly. This material has an experimentally-determined bioconcentration factor (BCF) of less than 100. This material is not expected to significantly bioaccumulate. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life of less than 1 day.
<b>Environmental Toxicity:</b>	No information found.



# SAFETY DATA SHEET

## Section 13: DISPOSABLE CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

## Section 14: TRANSPORTATION INFORMATION

Hazard Class or Division: Not classified as hazardous.

## Section 15: REGULATORY INFORMATION

N/A

## SECTION 16: OTHER INFORMATION

**Issue Date:** 09-15-2014  
**Revision Date:** 12-7-2015

## Disclaimer

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