

B-77



SAFETY DATA SHEET

Issuing Date January 5, 2015

Revision Date New

Revision Number 0

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

Product Identifier

Product Name Aplicare® Povidone-Iodine Solution (10%, For Individual Use)

Other means of identification

Product Code(s) L-1001

Recommended use of the chemical and restrictions on use

Recommended Use Broad spectrum topical antiseptic

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Name Aplicare Inc.
Supplier Address 550 Research Parkway
Meriden, CT 06450

Supplier Phone Number Phone: 203-630-0500

Emergency telephone number

Emergency Phone Numbers For Medical Emergencies call: 1-800-446-1014
For Transportation Emergencies, call Chemtrec: 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

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

GHS Label elements, including precautionary statements

Emergency Overview

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

Appearance Dark brown **Physical State** Viscous liquid **Odor** Faint, characteristic

Precautionary Statements - Prevention
None

Precautionary Statements - Response
None

Precautionary Statements - Storage
None

Precautionary Statements - Disposal
None

Hazards not otherwise classified (HNOC)
Not applicable

Unknown Toxicity
11% of the mixture consists of ingredient(s) of unknown toxicity

Other information
Harmful to aquatic life with long lasting effects.

Interactions with Other Chemicals
Incompatible with strong alkalis.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%	Trade Secret
Povidone-iodine	25655-41-8	8 - 12	*

4. FIRST AID MEASURES

First aid measures

General Advice	Show this safety data sheet to the doctor in attendance.
Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists: Get medical advice/attention.
Skin Contact	Wash skin with soap and water.
Inhalation	Remove to fresh air. If symptoms persist, call a doctor.
Ingestion	Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and Effects May cause slight eye irritation.

Indication of any immediate medical attention and special treatment needed

Notes to Doctor Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

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

Unsuitable extinguishing media

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

Specific Hazards Arising from the Chemical

Harsh iodine fumes may be emitted if product is heated to temperatures greater than 80°C.

Hazardous Combustion Products

Carbon oxides.

Explosion Data

Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge No.

Protective equipment and precautions for firefighters

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid contact with eyes.

Environmental Precautions

Environmental Precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

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

Methods for cleaning up Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

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

Conditions for safe storage, including any incompatibilities

Storage Do not store at temperatures above 40°C. Keep tightly closed in a dry and cool place. Keep in properly labeled containers.

Incompatible Products Strong alkalis.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Iodine 7553-56-2	TWA: 0.01 ppm (Inhalable fraction and vapor) STEL: 0.1ppm (Aerosol and vapor)	TWA-Ceiling: 0.1 ppm	IDLH: 2 ppm TWA-Ceiling: 0.1 ppm

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

Appropriate engineering controls

Engineering Measures Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection No special protection required.

Skin and Body Protection No special protection required.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State	Viscous liquid	Odor	Faint, characteristic
Appearance	Opaque	Odor Threshold	No information available
Color	Dark brown		

<u>Property</u>	<u>Values</u>	<u>Remarks/ Method</u>
pH	No data available	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	None known
Lower flammability limit	No data available	None known
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Specific Gravity	~1.04	None known
Water Solubility	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	None known
Oxidizing Properties	No data available	

<u>Other Information</u>	
Softening Point	No data available
VOC Content (%)	No data available
Particle Size	No data available
Particle Size Distribution	No data available

10. STABILITY AND REACTIVITY

Reactivity

Incompatible with strong alkalis.

Chemical stability

Stable under recommended storage conditions. Harsh iodine fumes may be emitted if product is heated to temperatures greater than 80°C.

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

Strong alkalis.

Hazardous Decomposition Products

Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	Product does not present an acute toxicity hazard based on known or supplied 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	No information available.

Information on toxicological effects

Symptoms May cause redness and tearing of the eyes.

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

Sensitization	No information available.
Mutagenic Effects	No information available.
Carcinogenicity	Contains no ingredients listed as a carcinogen.
Reproductive Toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.

Chronic Toxicity	Carcinogenic potential is unknown.
Target Organ Effects	None known.
Aspiration Hazard	No information available.

Numerical measures of toxicity Product Information

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

12. ECOLOGICAL INFORMATION

Ecotoxicity
Harmful to aquatic life with long lasting effects.

Persistence and Degradability
No information available.

Bioaccumulation
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

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

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

14. TRANSPORT INFORMATION

<u>DOT</u>	Not regulated
<u>TDG</u>	Not regulated
<u>ICAO</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG/IMO</u>	Not regulated

15. REGULATORY INFORMATION

Chemical 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 that 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 that are regulated 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 that are regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

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
Disodium phosphate 7558-79-4		X	X	X	
Sodium hydroxide 1310-73-2	X	X	X	X	

International Regulations

Canada
 WHMIS Hazard Class
 Not controlled.

16. OTHER INFORMATION

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

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

Revision Date New

Revision Note New

Reference INT0027/D001

Disclaimer

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

End of Safety Data Sheet



SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Identifier #013
Product Name Neomycin Antibiotic Ointment
Product Use Topical Antibiotic Ointment
Manufacturer Water Jel Technologies LLC
50 Broad Street
Carlstadt, New Jersey 07072
Telephone 201-507-8300
E-mail Address www.waterjel.com
Emergency Telephone 1-800-275-3433
FAX Number 201-507-8325
Issue Date: 06-01-2015

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Chemical Name	Common Name and Synonyms	CAS Number	%
Neomycin Sulfate		1405-10-3	Proprietary
Petrolatum		8009-03-8	Proprietary

SECTION 3: HAZARDS IDENTIFICATION

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.

Do not use if you are allergic to any of the ingredients.

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.



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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.

Route of Entry:

Skin Contact:	May cause irritation, redness, inflammation or dryness.
Skin Absorption:	No adverse conditions expected.
Eye Contact:	Direct contact with eyes may cause temporary irritation.
Inhalation:	Not expected due to form.
Ingestion:	May cause irritation of the digestive tract.

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:	Do not induce vomiting due to aspiration hazard. If vomiting should occur, lower head below knees to avoid aspiration.

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 0 Fire 1 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

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
Petrolatum (CAS 8009-03-8)	5 mg/m ³	5 mg/m ³	5 mg/m ³ TWA	Mist

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



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Appearance: Ointment.
Physical State: Ointment.
Form: Ointment.
Color: White to off white.
Odor: Slightly fatty odor.

pH: No information available.
Boiling Point: >200°F closed cup
Melting Point: No information available.
Flash Point: N/A

Explosive Properties: No information available.
Oxidizing Properties: No information available.
Specific Gravity: 0.87
Water Solubility: Insoluble.
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.

SECTION 10: STABILITY AND REACTIVITY

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.

SECTION 11: TOXICOLOGICAL INFORMATION

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.
Chronic: Occupational exposure: Skin.

Inhalation:
Mist 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.



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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:

Petrolatum (CAS 8009-03-8)

- Oral: Not available.
- Dermal: 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: This product is not expected to cause reproductive effects.

SECTION 12: ECOLOGICAL INFORMATION

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:

Not expected to be harmful to aquatic organisms.

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.

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



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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.

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:
Warning: This product does contain a chemical known to the State of California to cause cancer, birth, or any other reproductive defects.
Neomycin Sulfate USP (CAS 1405-10-3) – internal use only – listed October 1, 1992

New Jersey RTK:
Not listed.

Massachusetts RTK:
Petrolatum (CAS 8009-03-8)

Pennsylvania RTK:
Petrolatum (CAS 8009-03-8)

INTERNATIONAL REGULATIONS:

Country or Region	Inventory Name	Listed
Australia	Australia Inventory of Chemical Substances	Yes
Canada	Domestic Substance List (DSL)	No
Canada	Non-Domestic Substance List (NDSL)	Yes
China:	Inventory of Existing Chemical Substances in China (IECSC)	No
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)	Yes
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.

SECTION 16: OTHER INFORMATION

Name: Neomycin Antibiotic Ointment
Issue Date: 06-01-2015

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SAFETY DATA SHEET

Issue Date: 06-15-2015

Version: 01

Disclaimer:

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SAFETY DATA SHEET

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

SECTION 1 - PRODUCT / COMPANY IDENTIFICATION

IDENTITY (AS USED ON LABEL AND LIST)		Page 1 of 2
Benzalkonium Chloride Antiseptic Wipe		
MANUFACTURER'S NAME	EMERGENCY TELEPHONE NUMBER (24 Hours)	
Safetec of America, Inc.	(800) 255-3924	
ADDRESS (NUMBER, STREET, P.O. BOX)	TELEPHONE NUMBER FOR INFORMATION	
887 Kensington Ave.	(716) 895-1822	
(CITY, STATE AND ZIP CODE)	DATE PREPARED	April 1, 2014
Buffalo, NY 14215	SUPERSEDES	August 13, 2013

SECTION 2 - HAZARDOUS IDENTIFICATION

ROUTES OF ENTRY - SIGNS AND SYMPTOMS OF EXPOSURE	
SKIN: In case of skin irritation, discontinue use of the product.	
INHALATION: Not a normal route of exposure. May cause respiratory tract irritation.	
EYES: May cause irritation.	
INGESTION: Not a normal route of exposure. May cause stomach distress, nausea or vomiting.	
HEALTH HAZARDS (ACUTE):	Acute N/A
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Preexisting skin disorders may become aggravated through prolonged exposure.	

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS (SPECIFIC CHEMICAL IDENTITY; COMMON NAME(S))	CAS #	% (wt.) (OPTIONAL)	ACGIH TLV/TWA/STEL	
			PPM	MG/M ³
Ethyl Alcohol	64-17-5	10	1000 (PEL)	1000 (TLV)
Benzalkonium Chloride	68391-01-5	0.13	None Established	None Established

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

SECTION 4 - FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES	
SKIN: Discontinue use if irritation and redness develop. If condition persists for more than 72 hours, consult a physician.	
INHALATION: Not a normal route of exposure. If symptoms develop move victim to fresh air. If symptoms persist obtain medical attention.	
EYES: Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.	
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.	

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT (METHOD USED)	FLAMMABLE LIMITS (% Volume in Air for Lowest Flashing Component)
NA	LEL: NA UEL: NA
EXTINGUISHING MEDIA	
Treat for surrounding material.	
SPECIAL FIRE FIGHTING PROCEDURES	
Firefighters should wear full protective clothing including self contained breathing apparatus.	
UNUSUAL FIRE AND EXPLOSIVE HAZARDS	
NA	

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED
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. Pick up and discard towel.

SECTION 7 - HANDLING AND STORAGE

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

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION	VENTILATION	LOCAL EXHAUST: Required
Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.		MECHANICAL (GENERAL): Yes
PROTECTIVE GLOVES	EYE PROTECTION	
Ordinarily, none required	Follow standard industrial hygiene practices.	
OTHER PROTECTIVE CLOTHING OR EQUIPMENT	WORK/HYGIENIC PRACTICES	
Ordinarily, none required	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink.	

SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT	SPECIFIC GRAVITY (WATER = 1)
101.11°C	No data
VAPOR PRESSURE (mm Hg)	MELTING POINT
No data	Not applicable
VAPOR DENSITY (AIR = 1)	PH
No data	No data
SOLUBILITY IN WATER	EVAPORATION RATE (IPA = 1)
Moderate	No data
APPEARANCE AND ODOR	% VOLATILES (BY VOLUME)
Liquid saturated on wipe	No data

MATERIAL SAFETY DATA SHEET

IDENTITY (AS USED ON LABEL AND LIST)

Benzalkonium Chloride Antiseptic Wipe

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Date: April 1, 2014

SECTION 10 - STABILITY AND REACTIVITY

STABILITY	UNSTABLE:		CONDITIONS TO AVOID
	STABLE:	XXX	Do not mix with other chemicals.

INCOMPATIBILITIES (MATERIALS TO AVOID)

Acids. Oxidizers. Caustics.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

May include and are not limited to: Oxides of carbon. Hydrogen chloride.

HAZARDOUS POLYMERIZATION	MAY OCCUR:		CONDITIONS TO AVOID
	WILL NOT OCCUR:	XXX	Do not mix with other chemicals.

SECTION 11 - TOXICOLOGICAL INFORMATION

Component analysis - LCS0: N/A

Component analysis - LDS0: N/A

Effects of acute exposure: Non-hazardous by WHMIS/OSHA criteria.

Sensitization: Non-hazardous by WHMIS/OSHA criteria.

Chronic Effects: Prolonged or repeated exposure can cause drying, defatting, and dermatitis.

Carcinogenicity: Non-hazardous by WHMIS/OSHA criteria.

Mutagenicity: Non-hazardous by WHMIS/OSHA criteria.

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

Teratogenicity: Non-hazardous by WHMIS/OSHA criteria.

SECTION 12 - ECOLOGICAL INFORMATION

Component analysis - LCS0: N/A

Component analysis - LDS0: N/A

Ecotoxicity: N/A

Environmental Effects: N/A

Aquatic Toxicity: N/A

Persistence / degradability: N/A

Bioaccumulation / accumulation: N/A

Partition coefficient: N/A

Mobility in environmental media: N/A

Chemical fate information: N/A

Other adverse effects: N/A

SECTION 13 - DISPOSAL CONSIDERATIONS

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

Waste from residues/unused product: N/A

Contaminated Packaging: N/A

SECTION 14 - TRANSPORTATION INFORMATION

PROPER SHIPPING NAME	Solids containing flammable liquid, n.o.s. (Ethanol)	
HAZARD CLASS/PKG. GRP.	4.1/II IATA (non-canister)	Special Provision A46
IDENTIFICATION NUMBER	UN3175 US DOT (non-canister)	Special Provision 47

SECTION 15 - REGULATORY INFORMATION

Canadian Federal Regulation: N/A

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

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical- Yes

CERCLA (Superfund) reportable quantity - N/A

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

Clean Air Act (CAA) - N/A

Clean Water Act (CWA) - N/A

Safe Drinking Water Act (SDWA) - N/A

Drug Enforcement Agency (DEA) - N/A

Food and Drug Administration (FDA) - N/A

WHMIS classification - N/A

State regulations - N/A

Inventory Name - N/A

SECTION 16 - OTHER INFORMATION

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

Date Prepared: April 1, 2014



Eyewash

Safety Data Sheet

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

1.1. Product identifier

Product name : Eyewash

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

Use of the substance/mixture : Eyewash and/or Skin Flush

1.3. Details of the supplier of the safety data sheet

Eyes-Plus LLC
1825 262nd Street
Lomita, CA 90717
T 424-263-5294 - F 310-919-2950

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Not classified

2.2. Label elements

GHS-US labeling

No labeling applicable

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Water	(CAS No) 7732-18-5	Trade Secret	Not classified
Disodium orthophosphate heptahydrate	(CAS No) 7782-85-6	Trade Secret	Not classified
Sodium chloride	(CAS No) 7647-14-5	Trade Secret	Not classified
Phosphoric acid, monosodium salt, monohydrate	(CAS No) 10049-21-5	Trade Secret	Not classified
Glycine, N,N'-1,2-ethanediybis[N-(carboxymethyl)-, disodium salt, dihydrate	(CAS No) 6381-92-6	Trade Secret	Not classified
Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	(CAS No) 68391-01-5	Trade Secret	Not classified

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : No specific first aid necessary for this route of exposure.
First-aid measures after skin contact : No specific first aid necessary for this route of exposure.
First-aid measures after eye contact : No specific first aid necessary for this route of exposure.
First-aid measures after ingestion : No specific first aid necessary for this route of exposure.

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

Symptoms/injuries after inhalation : None under normal use.

Eyewash

Safety Data Sheet

Symptoms/injuries after skin contact : None under normal use.
Symptoms/injuries after eye contact : None under normal use.
Symptoms/injuries after ingestion : None under normal use.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media : None.

5.2. Special hazards arising from the substance or mixture

Fire hazard : This product is flammable.
Explosion hazard : None known.

5.3. Advice for firefighters

Protection during firefighting : Firefighters should wear full protective gear.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

None.

6.3. Methods and material for containment and cleaning up

For containment : No special measures required.
Methods for cleaning up : Wipe with an absorbent material and place in a receptacle for proper disposal.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : No special handling required.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in dry, cool, well-ventilated area.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls : None required under normal product handling conditions.
Hand protection : None required under normal product handling conditions.
Eye protection : None required under normal product handling conditions.
Skin and body protection : None required under normal product handling conditions.
Respiratory protection : None required under normal product handling conditions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Color : Colorless

Eyewash

Safety Data Sheet

Odor	: Odorless
Odor threshold	: No data available
pH	: No data available
pH solution	: 6.9 - 7.4
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 200 °F
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: 760 mm Hg
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Completely soluble in water
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Will not occur.

10.4. Conditions to avoid

None.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Sodium chloride (7647-14-5)	
LD50 oral rat	3 g/kg
LC50 inhalation rat (mg/l)	> 42 g/m ³ (Exposure time: 1 h)
ATE US (oral)	3000000.00000000 mg/kg

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : Not classified

Eyewash

Safety Data Sheet

Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Sodium chloride (7647-14-5)	
LC50 fish 1	5560 - 6080 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through])
EC50 Daphnia 1	1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	12946 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 2	340.7 - 469.2 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Sodium chloride (7647-14-5)	
BCF fish 1	(no bioaccumulation)

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on ozone layer : No additional information available

Effect on the global warming : No known ecological damage caused by this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

In accordance with DOT

Not a dangerous good as defined in transport regulations

SECTION 15: Regulatory information

15.1. US Federal regulations

No additional information available

15.2. US State regulations

No additional information available

SECTION 16: Other information

No additional information available

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

SAFETY DATA SHEET

May be used to comply with OSHA's Hazard Communication Standard 29 CFR 1910.1200. Standard must be consulted for specific requirements.

HMIS HAZARD RATING

HEALTH	2	0 = INSIGNIFICANT	3 = HIGH
FLAMMABILITY	3	1 = SLIGHT	4 = EXTREME
REACTIVITY	0	2 = MODERATE	

SAFETEC OF AMERICA

SECTION 1 - PRODUCT / COMPANY IDENTIFICATION

IDENTITY (AS USED ON LABEL AND LIST)

Safetec® Sting Relief- Towelette

Page 1 of 2

MANUFACTURER'S NAME

Safetec of America, Inc.

EMERGENCY TELEPHONE NUMBER (24 Hours)

(800) 255-3924

ADDRESS (NUMBER, STREET, P.O. BOX)

887 Kensington Ave.

TELEPHONE NUMBER FOR INFORMATION

(716) 895-1822

(CITY, STATE AND ZIP CODE)

Buffalo, NY 14215

DATE PREPARED

April 2, 2014

SUPERSEDES

August 13, 2013

SECTION 2 - HAZARDS IDENTIFICATION

ROUTES OF ENTRY - SIGNS AND SYMPTOMS OF EXPOSURE

SKIN: Prolonged or repeated skin contact may cause mild irritation.

EYES: Brief contact may cause mild irritation; prolonged contact may cause moderate irritation associated with redness.

INHALATION: Brief (minutes) inhalation will not cause adverse effects; prolonged and constant inhalation may cause irritation to the upper respiratory tract.

INGESTION: Small amounts swallowed incidental to normal handling are not likely to cause injury. Swallowing larger amounts may cause injury.

HEALTH HAZARDS (ACUTE):

Acute effects are possible irritation and discomfort.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Preexisting skin, eye or respiratory disorders may become aggravated through prolonged exposure.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS

(SPECIFIC CHEMICAL IDENTITY; COMMON NAME(S))	CAS #	% (wt.) (OPTIONAL)	OSHA PEL/STEL		ACGIH TLV/TWA/STEL	
			PPM	MG/M ³	PPM	MG/M ³
Ethyl Alcohol	64-17-5			1000 (PEL)		1000 (TLV)
Lidocaine HCl	6108-05-0	2		None Established		None Established
Menthol	2216-51-5			None Established		None Established

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

SECTION 4 - FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES

SKIN: If irritation occurs, flush with clear running water for a minimum of 15 minutes; if irritation persists, seek medical attention.

EYES: Flush eyes with clear running water for a minimum of 15 minutes while holding eyelids open; if irritation persists seek medical attention.

INHALATION: If irritation occurs, remove to fresh air and provide oxygen if breathing is difficult; seek medical attention if required.

INGESTION: DO NOT induce vomiting; seek immediate medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT (METHOD USED)

15.7°C

FLAMMABLE LIMITS (% Volume in Air for Lowest Flashing Component)

LEL: 3.3

UEL: 19

EXTINGUISHING MEDIA

Dry chemicals, alcohol-type or all-purpose foam, CO₂

SPECIAL FIRE FIGHTING PROCEDURES

DO NOT enter confined fire space without full bunker gear (Helmet with face shield, bunker coats, gloves and rubber boots). Wear NIOSH/MSHA approved self-contained breathing apparatus. Cool fire exposed containers with water. A water spray may be used to dispense vapors; re-ignition is possible.

UNUSUAL FIRE AND EXPLOSIVE HAZARDS

Flammable liquid. Concentrated vapors may be flammable.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED

Small spills may be flushed with large amounts of water; larger spills should be collected with approved absorbent for disposal.

SECTION 7 - HANDLING AND STORAGE

Handling: Keep container(s) tightly closed when not in use. Storage: Store in cool, dry area away from possible sources of ignition. Keep this and other chemicals out of reach of children.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION

Ordinary, none required

VENTILATION

LOCAL EXHAUST: Required

MECHANICAL (GENERAL): No

PROTECTIVE GLOVES

Ordinary, none required

EYE PROTECTION

Ordinary, none required

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Ordinary, none required

WORK/HYGIENIC PRACTICES

Practice safe work habits. Use according to label instructions.

SECTION 9 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT

173°F (Based on Ethyl Alcohol)

SPECIFIC GRAVITY (WATER = 1)

0.92

VAPOR PRESSURE (mm Hg)

Not determined

MELTING POINT

Not applicable

VAPOR DENSITY (AIR = 1)

Not determined

pH

Approximately 4.3

SOLUBILITY IN WATER

Complete to moderate

EVAPORATION RATE (IPA = 1)

Not determined

APPEARANCE AND ODOR

Clear liquid

% VOLATILES (BY VOLUME)

Not determined

MATERIAL SAFETY DATA SHEET		Page 2 of 2	
IDENTITY (AS USED ON LABEL AND LIST)		Date: April 2, 2014	
Safetec® Sting Relief- Towelette			
SECTION 10 - STABILITY AND REACTIVITY			
STABILITY	UNSTABLE:		CONDITIONS TO AVOID
	STABLE:	XXX	Extreme temperatures; sources of ignition
INCOMPATIBILITIES (MATERIALS TO AVOID)			
Strong oxidizing agents/reducing agents.			
HAZARDOUS DECOMPOSITION OR BYPRODUCTS			
Decomposition will not occur if handled and stored properly. Thermal decomposition may produce carbon monoxide, small amounts of nitrogen oxides, halogenated compounds or propionaldehyde may also be formed.			
HAZARDOUS POLYMERIZATION	MAY OCCUR:		CONDITIONS TO AVOID
	WILL NOT OCCUR:	XXX	None known
SECTION 11 - TOXICOLOGICAL INFORMATION			
Component analysis - LCS0: N/A			
Component analysis - LDS0: N/A			
Effects of acute exposure: possible irritation and discomfort.			
Sensitization: Non-hazardous by WHMIS/OSHA criteria.			
Chronic Effects: possible with the ingestion of large amounts to the nervous system. Do not use on abraded skin.			
Carcinogenicity: Non-hazardous by WHMIS/OSHA criteria.			
Mutagenicity: Non-hazardous by WHMIS/OSHA criteria.			
Reproductive Effects: Non-hazardous by WHMIS/OSHA criteria.			
Teratogenicity: Non-hazardous by WHMIS/OSHA criteria.			
SECTION 12 - ECOLOGICAL INFORMATION			
Component analysis - LCS0: N/A			
Component analysis - LDS0: N/A			
Ecotoxicity: N/A			
Environmental Effects: N/A			
Aquatic Toxicity: N/A			
Persistence / degradability: N/A			
Bioaccumulation / accumulation: N/A			
Partition coefficient: N/A			
Mobility in environmental media: N/A			
Chemical fate information: N/A			
Other adverse effects: N/A			
SECTION 13 - DISPOSAL CONSIDERATIONS			
Dispose of in accordance with Local, State, and Federal regulations. Products classified as non-hazardous may become hazardous waste upon contact with other products. Refer to "40 CFR Protection of Environment Parts 260-299" for complete waste disposal regulations. Consult your Local, State, or Federal Environmental Protection Agency before disposing of any chemicals.			
Waste from residues/unused product: N/A			
Contaminated Packaging: N/A			
SECTION 14 - TRANSPORTATION INFORMATION			
PROPER SHIPPING NAME	Solids containing flammable liquid, n.o.s. (Ethanol)		
HAZARD CLASS/PKG. GRP.	4.1 / II	IATA	Special Provision A46
IDENTIFICATION NUMBER	UN3175	US DOT	Special Provision 47
SECTION 15 - REGULATORY INFORMATION			
Canadian Federal Regulation: N/A			
US Federal Regulation: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.			
Occupational Safety and Health Administration (OSHA)			
29 CFR 1910.1200 hazardous chemical- Yes			
CERCLA (Superfund) reportable quantity - N/A			
Superfund Amendments and Reauthorization Act of 1986 (SARA) - N/A			
Clean Air Act (CAA) - N/A			
Clean Water Act (CWA) - N/A			
Safe Drinking Water Act (SDWA) - N/A			
Drug Enforcement Agency (DEA) - N/A			
Food and Drug Administration (FDA) - N/A			
WHMIS classification - N/A			
State regulations - N/A			
Inventory Name - N/A			
SECTION 16 - OTHER INFORMATION			
The information contained herein is believed to be accurate but is not warranted to be so. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed.			
Date Prepared: April 2, 2014			

Safety Data Sheet

SECTION 1 – IDENTIFICATION

Name, Address, and Telephone of the Responsible Party

Dyno Nobel Inc.

2795 East Cottonwood Parkway, Suite 500

Salt Lake City, Utah 84121

Phone: 801-364-4800 Fax 801-321-6703

E-Mail: dinna.hse@am.dynonobel.com www.dynonobel.com

SDS #: 1020

Date: 05/15/2015

Supersedes: 03/26/2014

Product Identifier

Product Name: Superprill

Formula: NH₄NO₃

Other Means of Identification

Synonyms: Superprill™, Prilled Ammonium Nitrate, Industrial Grade LoDAN, Ammonium Nitrate, Industrial Grade HiDAN, Ammonium Nitrate, Agricultural Grade

Intended Use of the Product

Industrial applications

Emergency Telephone Number

FOR 24 HOUR **EMERGENCY**, CALL CHEMTREC (USA) 800-424-9300
CANUTEC (CANADA) 613-996-6666

SECTION 2 – HAZARD(S) IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US)

Ox. Sol. 3

H272

Eye Irrit. 2A

H319

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



GHS03



GHS07

Signal Word (GHS-US)

: Warning

Hazard Statements (GHS-US)

: H272 - May intensify fire; oxidizer

: H319 - Causes serious eye irritation

Precautionary Statements (GHS-US)

: P210 - Keep away from heat, sparks, open flames, hot surfaces. - No smoking

P220 - Keep/Store away from combustible materials, clothing, incompatible materials

P221 - Take any precaution to avoid mixing with combustibles, organic material, clothing, incompatible materials

P260 - Do not breathe fume, dust.

P264 - Wash hands, forearms, and other exposed areas thoroughly after handling

P270 - Do not eat, drink or smoke when using this product.

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing, eye protection

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337+P313 - If eye irritation persists: Get medical advice/attention

P370+P378 - In case of fire: Use water only on AN fires.

P405 - Store locked up.

P501 - Dispose of contents/container according to local, regional, national, territorial, provincial, and international regulations*

Safety Data Sheet

*Do not perform hot work on contaminated equipment.

Other Hazards

Other Hazards: Aquatic Acute 3 H402
H402 – Harmful to aquatic life

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Name	Product identifier	% (w/w)	Ingredient Classification (GHS-US)
Ammonium nitrate	(CAS No) 6484-52-2	98 - 100	Ox. Sol. 3, H272 Eye Irrit. 2A, H319

Full text of H-phrases: see section 16

SECTION 4 - FIRST AID MEASURES

Description of First Aid Measures

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

Inhalation: If symptoms occur, go into fresh air and ventilate suspected area. Seek medical attention.

Skin Contact: Remove contaminated clothing. Wash with soap and water followed by rinsing with water. Seek medical attention if irritation develops or persists. Wash contaminated clothing before reuse.

Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

Ingestion: Rinse mouth. Do NOT induce vomiting. Seek medical attention.

Most Important Symptoms and Effects Both Acute and Delayed

General: Irritation to eyes, skin and respiratory tract.

Inhalation: May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty breathing.

Skin Contact: May cause skin irritation.

Eye Contact: Causes serious eye irritation.

Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: None known.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If ingested, may cause methemoglobinemia – emergency response should treat appropriately, such as by intravenous administration of methylene blue.

SECTION 5 - FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Evacuate the area for 1 mile if ammonium nitrate is involved in a fire. Only water shall be used on ammonium nitrate fires. Dry chemical, foams, steam and smothering devices are not effective and can lead to possible explosion of the ammonium nitrate. General extinguishers may be used on fires **not involving the ammonium nitrate** such as conveyors, electrical equipment, tires, bearings, general plant equipment or the like when only minimal amounts of ammonium nitrate are present. For large fires use unmanned monitor nozzles if available.

Unsuitable Extinguishing Media: Dry chemical, carbon dioxide, or regular foam.

Special Hazards Arising From the Substance or Mixture In intense fires, the ammonium nitrate can melt and detonate from confinement or strong shocks. Evacuation of at least 1 mile is recommended if the ammonium nitrate is involved in a fire.

Fire Hazard: May intensify fire; oxidizer. Will accelerate the burning of other combustibles, resulting in more rapid spread of fire.

Explosion Hazard: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Smothering, contact with organic material, or combustible material may cause an explosive situation.

Reactivity: May cause or intensify fire; oxidizer. May accelerate the burning of other combustible materials. Smothering,

Safety Data Sheet

contact with organic material, or combustible material may cause an explosive situation.

Advice for Firefighters

Precautions for Firefighting: Evacuate the area for 1 mile if ammonium nitrate is involved in a fire. Only fires which are in the initial or beginning stage or those involving minimal amounts of ammonium nitrate in a manufacturing setting or in an area where ammonium nitrate is stored or in vehicles transporting ammonium nitrate should be attacked using manual fire extinguishing methods (fire extinguishers, hose streams, etc.) that require a human operator. If a fire in an area where ammonium nitrate is stored or in vehicles transporting ammonium nitrate progresses beyond the incipient stage or involves the ammonium nitrate, evacuation is required. Fire fighters downwind from a fire should wear self-contained breathing apparatus. Fire fighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves and rubber boots.

Hazardous Combustion Products: Nitrogen oxides. Toxic fumes are released. Carbon oxides (CO, CO₂). Ammonia.

Additional Information: If a fire has not reached the ammonium nitrate, cool the ammonium nitrate or container thereof to prevent the fire from reaching it. Ammonium nitrate does not burn by itself and thus needs to be kept separate from combustible materials. Ammonium nitrate is an oxidizer and will significantly increase the burning rate of combustible materials.

When in confinement and in the presence of a strong detonation sources the material can explode when subject to sudden shock, pressure, or high temperatures. Avoid temperatures above 210 C (410 F) which may cause thermal decomposition or explosion, especially in confined or poorly ventilated spaces.

Do not allow run-off from fire fighting to enter drains or water courses.

Reference to Other Sections: Refer to section 9 for flammability properties. Not flammable.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Handle in accordance with good industrial hygiene and safety practice. Avoid breathing (dust, vapor, mist, gas). Avoid getting in eyes or on skin. Keep away from combustible material.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Ventilate area.

Environmental Precautions

Prevent entry to sewers and public waters.

Methods and Material for Containment and Cleaning Up

For Containment: Avoid generation of dust during clean-up of spills. Use a broom for small spills do not mix with other materials.

Methods for Cleaning Up: Collect spillage for possible reuse. Clean up spills immediately and dispose of waste safely. Contact competent authorities after a spill. Do not take up in combustible material such as: saw dust or cellulosic material.

Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection

SECTION 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: When heated to decomposition, emits toxic fumes. Smothering, contact with organic material, or combustible material in a fire situation may be an explosive situation. Do not puncture or incinerate container.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations 29 CFR 1910.109(i).

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store

Safety Data Sheet

away from combustible materials, ignition sources, and incompatible materials.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers. halogens (F, Cl, Br, I). Chlorine compounds, chlorinated inorganics (potassium, calcium and sodium hypochlorite) and hydrogen peroxides. Organic materials. Combustible materials.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

No Occupational Exposure Limits (OELs) have been established for this product or its chemical components.

Exposure Controls

Appropriate Engineering Controls: Ensure all national/local regulations are observed. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment: Approved safety glasses. Gloves. If insufficient ventilation: wear respiratory protection. Protective clothing when appropriate as indicated by air monitoring or if engineering controls are insufficient.



Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear protective gloves.

Eye Protection: Approved safety glasses

Skin and Body Protection: Not available

Respiratory Protection: Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of vapor or mist are expected to exceed exposure limits.

Other Information: When using, do not eat, drink or smoke.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	: Solid
Appearance	: Colorless to off-white prills
Odor	: Odorless
Odor Threshold	: Not available
pH	: Not available
Relative Evaporation Rate (butylacetate=1)	: Not available
Melting Point	: 170 °C (337°F)
Freezing Point	: Not available
Boiling Point	: 177 - 210 °C Decomposition (350 - 410°F)
Flash Point	: Not available
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not flammable
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: Not available
Relative Vapor Density at 20 °C	: Not available
Relative Density	: Not available
Specific Gravity	: 1.72 - 1.00 (Poured bulk density)
Solubility	: Soluble in water. Water: 192 g/100 ml @ 20 °C (68 °F); 118 g/100 ml @ 0 °C (32 °F)
Partition coefficient: n-octanol/water	: Not applicable. (inorganic)

Safety Data Sheet

Viscosity	: Not available
Explosion Data – Sensitivity to Mechanical Impact	: Not sensitive to mechanical impact. May be sensitive to supersonic explosively driven projectile impacts.
Explosion Data – Sensitivity to Static Discharge	: Not sensitive to static discharge.

SECTION 10 - STABILITY AND REACTIVITY

Reactivity: May cause or intensify fire; oxidizer. May accelerate the burning of other combustible materials. Smothering, contact with organic material, or combustible material may cause an explosive situation.

Chemical Stability: May intensify fire; oxidizer.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Extremely high temperatures. Overheating. Open flame. Combustible materials. Sources of ignition. Incompatible materials.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers. Halogens. Chlorine compounds, chlorinated inorganics (potassium, calcium and sodium hypochlorite) and hydrogen peroxides.

Hazardous Decomposition Products: Nitrogen oxides. Toxic vapors. Ammonia. Nitric acid

SECTION 11 - TOXICOLOGICAL INFORMATION

Information on Toxicological Effects – Product

Acute Toxicity: Not classified

LD50 and LC50 Data: Not available

Skin Corrosion/Irritation: Not classified

Serious Eye Damage/Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Teratogenicity: Not available

Carcinogenicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: May cause respiratory irritation.

Symptoms/Injuries After Skin Contact: May cause skin irritation.

Symptoms/Injuries After Eye Contact: Causes serious eye irritation.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: None known.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Ammonium nitrate (6484-52-2)

LD50 Oral Rat	2217 mg/kg
LC50 Inhalation Rat	> 88.8 mg/l/4h
ATE CLP (oral)	2217.000 mg/kg body weight

SECTION 12: ECOLOGICAL INFORMATION

Toxicity Not classified

Persistence and Degradability

Superprill

Persistence and Degradability Not established.

Safety Data Sheet

Bioaccumulative Potential	
Superprill	
Bioaccumulative Potential	Not established.
Ammonium nitrate (6484-52-2)	
BCF fish 1	(no bioaccumulation expected)
Log Pow	-3.1 (at 25 °C)
Mobility in Soil Not available	
Other Adverse Effects	
Other Information: Avoid release to the environment.	

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Collect spillage for possible reuse. Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Additional Information: Clean up even minor leaks or spills if possible without unnecessary risk.

SECTION 14 - TRANSPORT INFORMATION

14.1 In Accordance with DOT

Proper Shipping Name : AMMONIUM NITRATE with not more than 0.2% total combustible material, including any organic substance, calculated as carbon to the exclusion of any other added substance

Hazard Class : 5.1

Identification Number : UN1942

Label Codes : 5.1

Packing Group : III

ERG Number : 140



14.2 In Accordance with IMDG

Proper Shipping Name : AMMONIUM NITRATE

Hazard Class : 5.1

Identification Number : UN1942

Packing Group : III

Label Codes : 5.1

EmS-No. (Fire) : F-H

EmS-No. (Spillage) : S-Q



14.3 In Accordance with IATA

Proper Shipping Name : AMMONIUM NITRATE

Packing Group : III

Identification Number : UN1942

Hazard Class : 5

Label Codes : 5.1

ERG Code (IATA) : 5L



14.4 In Accordance with TDG

Proper Shipping Name : AMMONIUM NITRATE with not more than 0.2 per cent combustible substances, including any organic substance calculated as carbon, to the exclusion of any other added substance

Packing Group : III

Safety Data Sheet

Hazard Class : 5.1
 Identification Number : UN1942
 Label Codes : 5.1



SECTION 15 - REGULATORY INFORMATION

US Federal Regulations

Superprill

SARA Section 311/312 Hazard Classes : Immediate (acute) health hazard

Ammonium nitrate (6484-52-2)

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

US State Regulations

Ammonium nitrate (6484-52-2)

U.S. - Massachusetts - Right To Know List

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

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

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

Canadian Regulations

Superprill

WHMIS Classification : Class C - Oxidizing Material
 Class D Division 2 Subdivision B - Toxic material causing other toxic effects



Ammonium nitrate (6484-52-2)

Listed on the Canadian DSL (Domestic Substances List) inventory.

WHMIS Classification : Class C - Oxidizing Material
 Class D Division 2 Subdivision B - Toxic material causing other toxic effects

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision date : 05/15/2015

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Ox. Sol. 3	Oxidizing solids Category 3
H272	May intensify fire; oxidizer
H319	Causes serious eye irritation

NFPA Health Hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA Fire Hazard : 0 - Materials that will not burn.

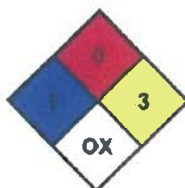
Safety Data Sheet

NFPA Reactivity

3 - Capable of detonation or explosive reaction, but requires a strong initiating source or must be heated under confinement before initiation, or reacts explosively with water.

NFPA Specific Hazard

OX - This denotes an oxidizer, a chemical which can greatly increase the rate of combustion/fire.



Party Responsible for the Preparation of This Document

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Dyno Nobel SDS

Safety Data Sheet

Product Name: BurnFree®
Date prepared: January 2002
Date revised: January 2015

1. Company and Product Identification

Substance or preparation trade name: BurnFree®

Company/undertaking name & address:

BurnFree – A Division of Exuro Medical, LLC
310 E 300 S
Salt Lake City, Utah 84111 USA
Telephone: 801-569-9090

2. Composition/Information on Ingredients

Chemical Type: Hydrogel (water-based gel) with Preservative System

Proprietary: Yes

Ingredient: Non-Hazardous Ingredients

3. Hazards Identification

Potential Health Effects: No potential health effects.

4. First aid measures

BurnFree is a first aid product for burn injuries and other minor wounds. No special precautions are necessary after contact. However, Burnfree is a water-based gel. Electricity must be shut off before apply water-based gel blanket. Chemical burns must be thoroughly irrigated and flushed before using BurnFree products.

5. Fire fighting measures

Non-Flammable

Suitable extinguishing media: NA

Unsuitable extinguishing media: NA

Special hazards in fire: NA

Required special protective equipment for fire fighters: NA

6. Accidental release measures

Personal precautions: Not Required

Environmental precautions: NA

Methods for cleaning: NA

7. Handling and storage

No special handling or storage requirements.

8. Exposure Controls

Personal protection equipment: Not required
Eye protection: Not required
Hand protection: Not required
Hygiene measures: Not required

9. Physical and chemical properties

Appearance: Translucent gel
Odor: Slight medicinal odor
pH: 5.5 – 7.0
Boiling point: 195 degrees Fahrenheit
Melting point: NA
Flashpoint: None
Explosive properties: NA
Vapor pressure: NA
Specific Gravity: 1.02
Solubility in Water: Soluble

10. Stability and reactivity

Stability: Stable
Incompatibility: None
Hazardous decomposition products: None

11. Toxicological information

Acute toxicity: Non-toxic
Local effects
Excessive exposure may affect human health as follows:

Skin contact: Irritant level below 5 and therefore classified as non-irritant.
Eye contact: Non-irritant or corrosive to eye.
Inhalation Acute: Non-toxic
Inhalation Chronic: Non-toxic
Ingestion: Non-toxic

12. Ecological information

No data available.

13. Disposal Considerations

Biodegradable. Can flush down sewage system.
Steps to be taken in case of release: None

14. Transport information

Not listed as hazardous material.

15. Regulatory information

Formulation has been designed/approved for direct application to skin. FDA (510k) Dressings, FDA (510k) Gel. Council Directive 93/42/EEC.

16. Other Information

Recommendations/restrictions: No restrictions.

Label required: No

Chronic hazard: No

Acute health hazard: No

Contact hazard: None

Fire hazard: None

Reactivity hazard: None