

# SAFETY DATA SHEET

## 1. Identification

**Product identifier** Benzalkonium Chloride Antiseptic Wipe  
**Other means of identification** Not available.  
**Recommended use** Not available.  
**Recommended restrictions** None known.

### Manufacturer/Importer/Supplier/Distributor information

#### Manufacturer

**Manufacturer:** Safetec of America, Inc.  
887 Kensington Avenue  
Buffalo, NY 14215  
**Company Telephone:** 1-716-895-1822  
**E-mail Address:** www.safetec.com  
**Emergency Telephone:** 1-800-255-3924  
**Supplier** Refer to Manufacturer

## 2. Hazard(s) identification

**Physical hazards** This mixture does not meet the classification criteria according to OSHA HazCom 2012.  
**Health hazards** Serious eye damage/eye irritation Category 2A  
**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



**Signal word** Warning  
**Hazard statement** Causes serious eye irritation.  
**Precautionary statement**  
**Prevention** Wear protective gloves/clothing and eye/face protection. Wash thoroughly after handling.  
**Response** If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.  
**Storage** None required according to OSHA Hazcom 2012.  
**Disposal** None required according to OSHA Hazcom 2012.  
**Hazard(s) not otherwise classified (HNOC)** None known.  
**Supplemental information** None.

## 3. Composition/information on ingredients

### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Ethanol	Alcohol Ethyl Alcohol	64-17-5	10
Benzalkonium Chloride		63449-41-2	0.13

## 4. First-aid measures

**Inhalation** If symptoms develop move victim to fresh air. Get medical attention if symptoms persist.  
**Skin contact** Wash off with warm water and soap. Get medical attention if symptoms occur.

<b>Eye contact</b>	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms persist.
<b>Ingestion</b>	Seek medical advice.
<b>Most important symptoms/effects, acute and delayed</b>	Causes serious eye irritation.
<b>Indication of immediate medical attention and special treatment needed</b>	Treat symptomatically.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water. Water Spray or Fog. Foam. Dry chemical or CO2.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	Thermal decomposition or combustion may liberate toxic gases or fumes.
<b>Special protective equipment and precautions for firefighters</b>	None known.
<b>Fire fighting equipment/instructions</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.
<b>Hazardous combustion products</b>	Carbon oxides.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	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.
<b>Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

<b>Precautions for safe handling</b>	When using, do not eat, drink or smoke. Avoid contact with eyes. Wear appropriate personal protective equipment. Use only with adequate ventilation. Wash thoroughly after handling.
<b>Conditions for safe storage, including any incompatibilities</b>	Keep container tightly closed. Keep cool. Store away from incompatible materials.

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Ethanol (CAS 64-17-5)	PEL	1900 mg/m3 1000 ppm

#### US. ACGIH Threshold Limit Values

Components	Type	Value
Ethanol (CAS 64-17-5)	STEL	1000 ppm

#### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Ethanol (CAS 64-17-5)	TWA	1900 mg/m3 1000 ppm

<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
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<b>Appropriate engineering controls</b>	Ensure adequate ventilation, especially in confined areas.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles).
<b>Skin protection</b>	
<b>Hand protection</b>	Chemical resistant gloves recommended.
<b>Other</b>	Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health or safety professional or manufacturer for specific information.
<b>Respiratory protection</b>	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Contact health and safety professional or manufacturer for specific information.
<b>Thermal hazards</b>	Not available.
<b>General hygiene considerations</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

<b>Appearance</b>	Towelette.
<b>Physical state</b>	Liquid.
<b>Form</b>	Towelette.
<b>Color</b>	Off-white.
<b>Odor</b>	Slight alcohol.
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Complete.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Other information</b>	
<b>Specific gravity</b>	0.98

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Stable at normal conditions.

<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	High temperatures.
<b>Incompatible materials</b>	Strong oxidizing agents. Acids.
<b>Hazardous decomposition products</b>	Carbon oxides.

## 11. Toxicological information

### Information on likely routes of exposure

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

### Most important symptoms/effects, acute and delayed

Causes serious eye irritation.

### Information on toxicological effects

**Acute toxicity** No adverse effects are expected.

Components	Species	Test Results
Ethanol (CAS 64-17-5)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 15800 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 32380 ppm, 4 hours (vapor) > 61 mg/l, 4 hours (vapor)
<i>Oral</i>		
LD50	Rat	7060 mg/kg

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

**Serious eye damage/eye irritation** Causes serious eye irritation.

### Respiratory or skin sensitization

**Respiratory sensitization** This product is not expected to cause respiratory sensitization.

**Skin sensitizer** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

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

Not listed.

**Reproductive toxicity** This product is not expected to cause reproductive effects.

**Specific target organ toxicity - single exposure** Not classified as a specific target organ toxicity -single exposure.

**Specific target organ toxicity - repeated exposure** Not classified as a specific target organ toxicity -repeated exposure.

**Aspiration toxicity** Not expected to be an aspiration hazard.

## 12. Ecological information

**Ecotoxicity** Not expected to be harmful to aquatic organisms.

Components	Species	Test Results
Ethanol (CAS 64-17-5)		
<b>Aquatic</b>		
<i>Acute</i>		
Algae	EC50	Green algae ( <i>Selenastrum capricornutum</i> ) 1000 mg/l, 96 hours
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> ) 5012 mg/l, 48 hours
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> ) > 100 mg/l, 96 hours
<b>Persistence and degradability</b>	Not available.	
<b>Bioaccumulative potential</b>	Not available.	
<b>Partition coefficient n-octanol / water (log Kow)</b>		
Ethanol		-0.31
<b>Mobility in soil</b>	Not available.	
<b>Other adverse effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	

### 13. Disposal considerations

<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations.
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

### 14. Transport information

<b>DOT</b>	Not regulated as dangerous goods.
<b>IATA</b>	Not regulated as dangerous goods.
<b>IMDG</b>	Not regulated as dangerous goods.
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not available.

### 15. Regulatory information

<b>US federal regulations</b>	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.
<b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</b>	Not regulated.
<b>CERCLA Hazardous Substance List (40 CFR 302.4)</b>	Ethanol (CAS 64-17-5) Listed.
<b>SARA 304 Emergency release notification</b>	Not regulated.
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>	Not listed.
<b>Superfund Amendments and Reauthorization Act of 1986 (SARA)</b>	
<b>Hazard categories</b>	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical** Yes**SARA 313 (TRI reporting)**  
Not regulated.**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.**US state regulations****US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**

Not listed.

**US. Massachusetts RTK - Substance List**

Ethanol (CAS 64-17-5)

**US. New Jersey Worker and Community Right-to-Know Act**

Ethanol (CAS 64-17-5)

**US. Pennsylvania Worker and Community Right-to-Know Law**

Ethanol (CAS 64-17-5)

**US. Rhode Island RTK**

Not regulated.

**US. California Proposition 65**

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

**US - California Proposition 65 - CRT: Listed date/Carcinogenic substance**

Ethanol (CAS 64-17-5)

Listed: April 29, 2011

Listed: July 1, 1988

**US - California Proposition 65 - CRT: Listed date/Developmental toxin**

Ethanol (CAS 64-17-5)

Listed: October 1, 1987

**International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	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 Substances Control Act (TSCA) Inventory	Yes

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

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**16. Other information, including date of preparation or last revision**

**Issue date** 01-30-2015  
**Version #** 01

**Disclaimer**

Prepared by: ICC The Compliance Center Inc. 1-888-442-9628  
<http://www.thecompliancecenter.com>

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**Bibliography**

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices (2014)  
Canadian Centre for Occupational Health and Safety, CCOHS Web Databases, 2014  
(Chempendium, RTECs, HSDB, INCHEM)  
European Chemicals Bureau, Existing Chemicals Work Area, EINECS Information System, 2014.  
Material Safety Data Sheet from manufacturer.  
OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2014.



# VI·JON<sup>®</sup> Safety Data Sheet

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

### Product identifier

Product Name: Calamine Lotion  
Item Number: 063AA

### Other means of identification

Synonyms: None

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

Recommended Use: Skin-care  
Uses advised against: Use only as directed.

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

#### Supplier Name

#### Supplier Address

Vi-Jon Inc.  
8800 Page Avenue  
Saint Louis  
MO  
63114  
US  
Phone: 314-427-1000 (M-F 8am-4pm CST)  
Fax:3144271010

Emergency telephone number Chemtrec: 1-800-424-9300 (24-Hour)



## 2. HAZARDS IDENTIFICATION

### Classification

This product does not contain any chemicals considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122).

### GHS Label elements, including precautionary statements

#### Emergency Overview

The product contains no substances which at their given concentration are considered to be hazardous to health

**Appearance:** Pink, Viscous liquid      **Physical State:** Viscous liquid      **Odor:** Odorless

### **Precautionary Statements - Prevention**

Obtain special instructions before use

### **Precautionary Statements - Response**

None

### **Precautionary Statements - Storage**

None

### **Precautionary Statements - Disposal**

None

### Hazards not otherwise classified (HNOC)

Not Applicable

### Unknown Toxicity

8.6956% of the mixture consists of ingredient(s) of unknown toxicity

### Other information

- Toxic to aquatic life with long lasting effects
- May cause slight eye irritation
- Prolonged or repeated contact may dry skin and cause irritation

Interactions with Other Chemicals      No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade Secret
Calamine 8.0% w/v	8011-96-9	0-10	*
Zinc Oxide 8.0% w/v	1314-13-2	0-10	*
Bentonite Magma	1302-78-9	0-10	*
Calcium Hydroxide	1305-62-0	0-10	*
Glycerin	56-81-5	0-10	*
Purified Water	7732-18-5	50-100	*

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

### 4. FIRST AID MEASURES

#### First aid measures

**Eye Contact** Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

**Skin Contact** In the case of skin irritation or allergic reactions see a physician.

**Inhalation** Move to fresh air. If symptoms persist, call a physician.

**Ingestion** Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

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

**Most Important Symptoms/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

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

No information available

#### 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.  
**Other Information** Refer to protective measures listed in Sections 7 and 8.

### 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 if safe to do so.  
**Methods for Cleaning Up** Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Keep in suitable and closed containers for disposal.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

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

### Conditions for safe storage, including any incompatibilities

**Storage** Keep in tightly closed containers in a dry and cool place. Keep in properly labeled containers.  
**Incompatible Products** None known based on information supplied.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

There is no exposure data pertaining to the Product. This section reflects exposure data pertaining to individual ingredients.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Zinc Oxide 8.0% w/v 1314-13-2	STEL: 10 mg/m <sup>3</sup> respirable fraction TWA: 2 mg/m <sup>3</sup> respirable fraction	TWA: 5 mg/m <sup>3</sup> fume TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 5 mg/m <sup>3</sup> fume (vacated) TWA: 10 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) STEL: 10 mg/m <sup>3</sup> fume	IDLH: 500 mg/m <sup>3</sup> Ceiling: 15 mg/m <sup>3</sup> dust TWA: 5 mg/m <sup>3</sup> dust and fume STEL: 10 mg/m <sup>3</sup> fume
Bentonite Magma 1302-78-9	TWA: 1 mg/m <sup>3</sup> respirable fraction	-	
Calcium Hydroxide 1305-62-0	TWA: 5 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 5 mg/m <sup>3</sup> not in effect as a result of reconsideration	TWA: 5 mg/m <sup>3</sup>
Glycerin 56-81-5	TWA: 10 mg/m <sup>3</sup> mist	TWA: 15 mg/m <sup>3</sup> mist, total particulate TWA: 5 mg/m <sup>3</sup> mist, respirable fraction (vacated) TWA: 10 mg/m <sup>3</sup> mist, total particulate (vacated) TWA: 5 mg/m <sup>3</sup> mist, respirable fraction (vacated)	

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.

**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. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Physical and Chemical Properties

<b>Physical State</b>	Viscous liquid	<b>Odor</b>	Odorless
<b>Appearance</b>	Pink, Viscous liquid	<b>Odor Threshold</b>	No information available
<b>Color</b>	No information available		
<b>Property</b>	<b>Values</b>	<b>Remarks/ Method</b>	
<b>pH</b>	9.5	None known	
<b>Melting/freezing point</b>	No data available	None known	
<b>Boiling Point/Range</b>	No data available	None known	
<b>Flash Point</b>	No data available	None known	
<b>Evaporation rate</b>	No data available	None known	
<b>Flammability (solid, gas)</b>	No data available	None known	
<b>Flammability Limits in Air</b>			
Upper flammability limit	No data available		
Lower flammability limit	No data available		
<b>Vapor pressure</b>	No data available	None known	
<b>Vapor density</b>	No data available	None known	
<b>Specific Gravity</b>	No data available	None known	
<b>Water Solubility</b>	Miscible with water	None known	
<b>Solubility in other solvents</b>	No data available	None known	
<b>Partition coefficient: n-octanol/water</b>	No data available	None known	
<b>Autoignition temperature</b>	No data available	None known	
<b>Decomposition temperature</b>	No data available	None known	
<b>Kinematic viscosity</b>	No data available	None known	
<b>Dynamic viscosity</b>	No data available	None known	
<b>Explosive Properties</b>	No data available		
<b>Oxidizing Properties</b>	No data available		
<b>Other Information</b>			
<b>Softening Point</b>	No data available		
<b>VOC Content (%)</b>	No data available		

### 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.

#### Incompatible materials

None known.

#### Hazardous Decomposition Products

Carbon oxides.

When used in accordance with the directions.

**11. TOXICOLOGICAL INFORMATION**

There is no data for this product. The information included in this section describes the potential hazards of the individual ingredients.

**Information on likely routes of exposure**

**Product Information**

**Inhalation**                                 There is no data available for this product.  
**Eye Contact**                                There is no data available for this product.  
**Skin Contact**                                There is no data available for this product.  
**Ingestion**                                    There is no data available for this product.

**Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Zinc Oxide 8.0% w/v 1314-13-2	> 5000 mg/kg (Rat)	-	-
Bentonite Magma 1302-78-9	> 5000 mg/kg (Rat)	-	-
Calcium Hydroxide 1305-62-0	= 7340 mg/kg (Rat)	-	-
Glycerin 56-81-5	-	> 10 g/kg (Rabbit)	> 570 mg/m <sup>3</sup> (Rat) 1 h

**Information on toxicological effects**

**Symptoms**                                    No information available.

**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 ingredient listed as a carcinogen.  
**Reproductive Toxicity**                      No information available  
**STOT - single exposure**                    No information available.  
**STOT - repeated exposure**                No information available.  
**Chronic Toxicity**                            No known effect based on information supplied. Bentonite contains naturally occurring crystalline silica. Crystalline silica (quartz) has been classified by the International Agency for Research on Cancer (IARC) as a known human carcinogen (Group 1). This product contains crystalline silica (quartz) in a non-respirable form. Inhalation of crystalline silica is unlikely to occur from exposure to this product.  
**Target Organ Effects**                      Eyes.  
**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

**ATEmix (oral)**  
 22,923.00 mg/kg  
**ATEmix (inhalation-dust/mist)**  
 68.80 mg/L

**12. ECOLOGICAL INFORMATION**

There is no ecological data on the Product. The Product ingredients are expected to be safe for the environment at concentrations predicted under normal use and accidental spill scenarios. Packaging components are compatible with the conventional solid waste management practices.

**Ecotoxicity**

No information available.

**Persistence and Degradability**

No information available.

**Bioaccumulation**

No information available.

**Other Adverse Effects**

No information available.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Waste 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 in accordance with local regulations.

**California Hazardous Waste Codes 331**

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

Chemical Name	California Hazardous Waste
Zinc Oxide 8.0% w/v 1314-13-2	Toxic
Calcium Hydroxide 1305-62-0	Corrosive

**14. TRANSPORT INFORMATION**

<b><u>DOT</u></b>	Not regulated
<b>Proper Shipping Name</b>	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 Exempt  
 DSL Exempt

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

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Zinc Oxide 8.0% w/v	1314-13-2	0 - 10	1.0

**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

**Clean Water Act**

This product contains the following substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Zinc Oxide 8.0% w/v 1314-13-2		X		

**CERCLA**

This material, as supplied, does not contain any substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

**U.S. 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
Zinc Oxide 8.0% w/v 1314-13-2	X	X	X
Glycerin 56-81-5	X	X	X

**International Regulations**

**Mexico - Grade** No information available.

Chemical Name	Carcinogen Status	Exposure Limits
Zinc Oxide 8.0% w/v		Mexico: TWA 5 mg/m <sup>3</sup> Mexico: TWA 10 mg/m <sup>3</sup> Mexico: STEL 10 mg/m <sup>3</sup>
Calcium Hydroxide		Mexico: TWA 5 mg/m <sup>3</sup>
Glycerin	-	10mg/m <sup>3</sup> (mist) TWA

Canada

**WHMIS Hazard Class**

Non-controlled



Product Number: 063AA  
Issuing Date: December 19, 2013

Revision Date: May 4, 2015

Product Name: Calamine Lotion  
Revision Number: 1

## 16. OTHER INFORMATION

<u>NFPA</u>	Health Hazard 1	Flammability 0	Instability 0	Physical and Chemical Hazards - None
<u>HMIS</u>	Health Hazard 1	Flammability 0	Physical Hazard 0	Personal Protection X

### Chronic Hazard Star Legend

Prepared By WERCS Professional Services, LLC  
23 British American Blvd.  
Latham, NY 12110  
1-800-572-6501

Issuing Date December 19, 2013

Revision Date May 4, 2015

Revision Note Formatting update

### General 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 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.

Approved and Updated by Vi-Jon, Inc.

### Disclaimer:

The information and recommendations contained in the Material Safety Data Sheet (MSDS) are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. The information and recommendations set forth herein are presented in good faith and believed to be correct as of this date hereof.

Vi-Jon, however, makes no representation as to the completeness or accuracy thereof, and information is supplied upon the express condition that the persons receiving the information will be required to make their own determination as to its suitability for their purposes prior to use. In no event will Vi-Jon be responsible for any damages of any nature whatsoever resulting from the use of, reliance upon, or the misuse of this information.

No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature, are made hereunder with respect to information or the product to which the information refers. The information as supplied herein is simply to be informative and intended solely to alert the user of the substance which is the subject matter of this MSDS. The ultimate compliance with federal, state or local regulations concerning the use of this compound, or compliance with respect to product liability, rests solely upon the purchaser thereof.

End of Safety Data Sheet

## COLDSTAR INTERNATIONAL

Date Prepared: October, 2008  
Current Revision: May 2014

### **SECTION ONE • PRODUCT AND COMPANY IDENTIFICATION**

Item Description:  
ColdStar Disposable Instant Cold Pack  
ColdStar Re-useable Cold Control Instant Cold Pack

Part Number:  
0101, 0102, 0103, 0104, 0401, 0402,  
411204  
0201, 0202

### **Chemical Composition Data – see Section 3 for additional information**

<u>ITEM</u>	<u>C.S.S. No.</u>	<u>Percentage</u>
Ammonium Nitrate	6484-52-2	45.45
Water	7732-18-5	51.45
Proprietary		1.00
Acrylic Acid, Polymers (Film)	9003-01-4	2.10
		<u>100.00</u>

Note(s): The above chemicals are separated into compartments before activation of the cold pack. Compartment 1: Ammonium Nitrate (powder). Compartment 2: Water.

The product contains the following toxic chemicals subject to the reporting requirements of Section 313 of Title III Emergency Planning and Community Right To Know Act of 1986 and 40 CFR: AMMONIUM NITRATE.

### **Identification**

UN-Number UN1942  
The recommended use – Instant Cold Pack Therapy

### **Supplier Contact Information:**

ColdStar International  
501 Industrial Park Road  
Piney Flats, TN 37686  
(423) 538-5551  
(423) 538-3030 (fax)

### **Emergency Contact Information:**

CHEMTRÉC  
United States – (800) 424-9300  
International – + 1 703-527-3887

**SECTION TWO • HAZARDS IDENTIFICATION**

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

- Eye Contact: Eye contact is not expected to occur during normal use of the product.
- Skin Contact: Prolonged or repeated exposure may cause:  
 Frostbite signs/symptoms can include firm blanched area, redness, pain, tissue destruction, swelling, and scar tissue formation.
- Ingestion: Ingestion is not a likely route of exposure to this product. Ingestion may cause:  
 irritation of gastrointestinal tissues: signs/symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in vomitus, and blood in feces.
- Inhalation: Unlikely to occur under normal conditions of usage and handling.
- Potential Hazards: Prior to mixing, ammonium nitrate pellets explode from heat or contamination if burnt or in a fire, can act as an oxidizer. Store in appropriate locations and containers.

**Hazard Data**

NFPA Hazard Codes:  
 Health: 1                                      Fire: 1                                      Reactivity: 0  
 Unusual Reaction Hazard: N/D

Hazard is not otherwise classified by (HNOC)

Overview: Contents come within a waterproof package containing small Ammonium Nitrate pellets, surrounding a liquid bag filled with water. Once mixed, the bag will feel cold. This apparatus is used as a First Aid Device. When properly administered, apparatus is non-hazardous. If packaging is damaged, the following hazards may result: Serious eye damage/Eye Irritation – please see list of precautions under sections 4 and 6.

**SECTION THREE • COMPOSITION DATA**

**Composition Data**

<u>ITEM</u>	<u>C.S.S. No.</u>	<u>Percentage</u>
Ammonium Nitrate	6484-52-2	45.45
Water	7732-18-5	51.45
Proprietary		1.00
Acrylic Acid, Polymers (Film)	9003-01-4	2.10
		<u>100.00</u>

**Chemical Properties**

Boiling Point	>100°C
Vapor Pressure	760MM HG @ 100°C
Vapor Density	>1
Evaporation Rate	N/A
Solubility in Water	Soluble in Water
Specific Gravity	S=1.7; LIQ=1.1
Percent Volatile	46
Volatile Organic Compounds	N/D
Voc Less H <sub>2</sub> O & Exempt Solvents	N/D
pH	7.0
Viscosity	N/A
Melting Point	N/D

**Abbreviations: ND – Not Determined; N/A – Not Applicable**

**(Section 3 continued)**

Appearance and Odor  
VOC Content

Solid=White; Liquid=Hazy  
No Data Available

Explosive Properties  
Flammable Properties  
Oxidizing Properties

None  
Not Flammable  
Oxidizer

**SECTION FOUR • FIRST AID MEASURES**

Eye Contact: Immediately flush eyes with large amounts of water. Get immediate medical attention. After initial flushing remove eye contacts, continue flushing for at least 20 minutes. Get medical attention if irritation persist.

Skin Contact: Flush skin with large amounts of water. If irritation persists, seek medical attention.

Inhalation: If accidentally inhaled, move to fresh air and seek medical attention immediately if any symptoms occur.

Ingestion: Drink two glasses of water. Call a physician. Do not induce vomiting. Get medical attention if symptoms occur.

Symptoms/effects: No information is available

- NOTE: Indication of Immediate attention and treatment: Treat symptomatically.

**SECTION FIVE • FIREFIGHTING MEASURES**

**Fire and Explosion**

Flash Point  
Flammable Limits: LEL  
Flammable Limits: UEL  
Autoignition Temperature  
Extinguishing Media:

N/D  
N/A  
N/A  
N/D  
Water

**Special Fire Fighting Procedures:**

Wear full protective clothing, including helmet, self contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist, and legs, face mask, and protective covering for exposed areas of the head. These fire fighting procedures are applicable in warehouse situations. Single units would not call for the above procedures.

**Unusual Fire and Explosion Hazards:**

Confinement at elevated temperatures or exposure may intensify fire, oxidizer. **Avoid use of CO<sub>2</sub>, dry chemical or foam for extinction.**

**Explosion Data**

Sensitivity to Mechanical Impact – None  
Sensitivity to Static Discharge – None

## **SECTION SIX • ACCIDENTAL RELEASE MEASURES**

### **Precautions, Protective Equipment and Emergency Procedures**

Precautions - Evacuate all personnel to safe areas and away from any upwind or spills. Avoid contact with skin and eyes. Do not touch damaged packaging.

Environmental – Prevent any entry into waterways, sewers and confined areas.

Containment – For damaged containers, keep away from heat and remove all combustible materials. If container is hot, cool with water. Treat material as an oxidizer

Cleaning Up – For damaged containers: Pick up and properly label containers. For damaged containers, remove all sources of ignition. Use non-combustible absorbent material for spilled liquid. Wear protective equipment, ie rubber gloves and mask if needed and any additional safety equipment. Dispose of in appropriate labeled confined containers.

## **SECTION SEVEN • HANDLING AND STORAGE**

Handle in accordance with good industrial standards, always put safety first.

Storage – Keep away from open flames, heat, hot surfaces and sources of ignition. Store at room temperature. Do not freeze.

Incompatible Products - Strong oxidizing agents: nitrate salts, chloride salts, metal salts and hydrocarbons.

## **SECTION EIGHT • EXPOSURE CONTROLS/PERSOAL PROTECTION**

Eye Protection:	Avoid eye contact.
Skin Protection:	Avoid skin contact.
Recommended Ventilation:	Not applicable.
Respiratory Protection:	Not applicable.
Prevention of Accidental Ingestion:	Do not ingest.
	Recommended Storage: Store at temperatures which are below 80 degrees F (28 degrees C). Keep out of reach of children. Explosive when dry. Do not heat under confinement.
Fire and Explosion Avoidance:	
Exposure Limits:	
<u>Ingredient</u>	<u>Value</u> <u>Unit</u> <u>Type</u> <u>Auth</u> <u>Skin*</u>
Ammonium Nitrate	NONE NONE NONE NONE
Water	NONE NONE NONE NONE

\*Skin Notation: Listed substances indicated with “Y” under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne, or more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

Source of Exposure Limit Data: None established.

**SECTION NINE • PHYSICAL AND CHEMICAL PROPERTIES**

**Chemical Properties**

Boiling Point	>100°C
Vapor Pressure	760MM HG @ 100°C
Vapor Density	>1
Evaporation Rate	N/A
Solubility in Water	Soluble in Water
Specific Gravity	S=1.7; LIQ=1.1
Percent Volatile	46
Volatile Organic Compounds	N/D
Voc Less H <sub>2</sub> O & Exempt Solvents	N/D
pH	7.0
Viscosity	N/A
Melting Point	N/D
Appearance and Odor	Solid=White; Liquid=Hazy
VOC Content	No Data Available
Explosive Properties	None
Flammable Properties	Not Flammable
Oxidizing Properties	Oxidizer

**SECTION TEN • STABILITY AND REACTIVITY DATA**

Stability:	Stable
Chemical Stability:	Stable under proper storage conditions
Hazardous Reactions:	None under normal processing
Incompatibility-materials/Conditions to Avoid:	Strong oxidizing agents, heat.
Hazardous Polymerization:	Hazardous polymerization will not occur.
Hazardous Decomposition-Products:	Ammonium Salts.
Reactivity:	No data available

**SECTION ELEVEN • TOXICOLOGICAL INFORMATON**

Information on likely routes of exposure:	None
Symptoms related to the physical, chemical and toxicological characteristics	None
Delayed and immediate effects	None
Chronic affects from short and long term exposure	None
Numerical measures of toxicity – Product	0%

**SECTION TWELVE • ENVIRONMENTAL DATA**

Spill Response:	Cover with inorganic absorbent material. If dry, shovel into dry container and cover.	
Recommended Disposal:	Material suitable for approved solid waste landfill.	
Environmental Data:	None	
EPCRA Hazard Class:		
Fire hazard: NO	Pressure: NO	Reactivity: NO
Acute: NO	Chronic: NO	

**Abbreviations: ND – Not Determined; N/A – Not Applicable**

### **SECTION THIRTEEN • DISPOSAL**

#### **Waste Disposal Methods**

This material 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 comes into contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Dispose of contents to an approved waste disposal site.

### **SECTION FOURTEEN • TRANSPORTATION INFORMATION**

#### **Transportation**

DOT - Department of Transportation:

- UN Number – UN1942
- Proper shipping name – Ammonium Nitrate
- Hazard Class – 5.1
- Packaging Group III
- Description – UN1942, Ammonium Nitrate, 5.1, Class III
- Emergency Response Guide Number – 140

### **SECTION FIFTEEN • REGULATORY INFORMATION**

Complies with - United States Toxic Substance Control Act Section 8(b) Inventory – TSCA  
Complies with – Canadian Domestic Substances List/Non-Domestic Substances List

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

California Proposition 65 – Product does not contain any Proposition 65 Chemicals

US EPA Label Information – Not Applicable

Instant Cold Icepack is not restricted under the U.S. Department of Transportation 49 CFR and International Air Transport Association (ATA) dangerous goods regulations.

Note: Contents come within a waterproof package containing small amounts of Ammonium Nitrate pellets. As a catalyst, the ammonium nitrate is surrounded by a liquid bag filled with water.

### **SECTION SIXTEEN • OTHER INFORMATION**

ColdStar International does not assume any legal responsibility for use or reliance upon this information. The final determination of suitability of any material for a particular use is the sole responsibility of the user. All materials may present hazards and attributes that are unknown. All chemicals or apparatuses containing chemical properties should be handled with caution and responsibility, never allow children to administer devices without supervision. It is the end user's responsibility to determine when and where to use material and to follow all instructions and precautions that are prescribed on packaging.



*Medique*

MEDI-FIRST®



April 15, 2015

**Reference: Safety Data Sheets (SDS) for all Over-the-Counter drugs.**

This document serves as certification that all of our OTC product brands (to include):

Green Guard  
Medique  
Medi-First  
Medi First Plus  
Otis Clapp  
Dover

are exempt from the requirements for an SDS found in **29 CFR §1910.1200**.

Specifically, the Occupational Safety and Health Administration's (OSHA) Hazard Communication Standard (HCS) exemption states:

**29 CFR §1910.1200(b)**

This section does not apply to:

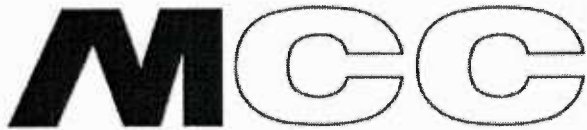
**29 CFR §1910.1200(b)(6)(vii):**

"Any drug, as that term is defined in the Federal Food, Drug, and Cosmetic Act (21 U.S.C. 301 et seq.), when it is in solid, final form for direct administration to the patient (e.g., tablets or pills); drugs which are packaged by the chemical manufacturer for sale to consumers in a retail establishment (e.g., over-the-counter drugs); and drugs intended for personal consumption by employees while in the workplace (e.g., first aid supplies)."

**Therefore, over-the-counter drugs prepackaged for retail sale are exempt from OSHA Hazard Communication Standard requirements (including the requirement for an SDS) from time of packaging regardless of the product's final physical form.**

Debra A. Lehnus  
Quality Assurance / Regulatory Manager





Medical Chemical Corp.  
19430 Van Ness Ave.  
Torrance, CA 90501  
Customer Service: Phone (310)787-6800  
FAX (310)787-4464

CHEMTREC Emergency Response Telephone Number: (800)424-9300

Note: The CHEMTREC phone number is only for emergencies involving spills, leaks, fire, exposure or accident. Please direct all other inquiries to our customer service phone number.

### Section I - Product Identification

A solution of glycerin and a potassium soap in alcohol and water.

### Section II - Hazards Identification

Warning: Flammable liquid and vapor. Keep away from heat, sparks, open flames and hot surfaces. Keep container tightly closed. Use only non-sparking tools. Take precautions against static discharge. Wear protective clothes and eye protection. In case of skin contact immediately remove all contaminated clothing. Rinse with water or shower. In case of fire, use fire extinguishers approved for alcohol fires. Store in a cool, well ventilated place.

#### Safety Ratings

Health: Slight Flammability: Highly flammable liquid and vapor Reactivity: None Contact: Slight

Recommended safety equipment: safety goggles, lab coat and proper gloves

Storage: Keep cool, away from sources of ignition in a well ventilated area.

#### NFPA Ratings

Health = 1 Flammability = 3 Reactivity = 0



#### Potential Health Effects

The toxicology of this compound have not been completely examined. It is presumed that the toxicity of this item is similar to other aliphatic alcohols.

*Inhalation:* Alcohols are absorbed through the mucous membranes and will produce irritation as well as the same effects as ingestion.

*Ingestion:* Inhalation will produce CNS disturbance, dizziness, photophobia, headache, stupor, coma and death.

*Skin contact:* Alcohols are absorbed through the skin. Repeated contact causes defatting of the skin with resultant irritation and flaking.

*Eye contact:* May be irritating.

*Chronic Exposure:* Unknown.

*Aggravation of preexisting conditions:* Impaired kidney and liver function may be aggravated by exposure to alcohols. Preexisting eye, skin, and respiratory conditions may also be aggravated.

### Section III - Composition/Information on Components

Ingredients	CAS#	OSHA Pel	ACGIH TLV	Other Limits	%
Ethanol	64-17-5	1000 ppm (TWA)	1000 ppm (TWA)		30% v/v
Glycerin	56-81-5	15 mg/m <sup>3</sup> (TWA)	10 mg/m <sup>3</sup> (TLV)		3.3% v/v

### Section IV - First Aid Measures

*Inhalation:* Remove from source of exposure and get medical attention for any breathing difficulty.

*Ingestion:* Do not induce vomiting if patient is unconscious or extremely drowsy. Otherwise administer 2 glasses of water and induce vomiting. Get immediate medical attention even if symptoms improve.

*Skin Contact:* In case of skin contact, remove contaminated clothing and flush with water. Wash affected area with soap and water. Get medical advice if irritation develops.

*Eye Contact:* In case of eye contact, flush with water and get medical attention if needed.

---

## Section V - Fire Fighting Measures

*Flash point:* 28°C (82°F) TCC

*Flammable Limits (for ethanol):* LEL 3% UEL 19%

*Explosion:* Not Normally an explosion hazards.

*Fire Extinguishing Media:* Alcohol type foam, carbon dioxide or dry chemical. Water is ineffective against alcohol fires but may be used to cool adjacent containers.

*Special information:* Pyrolysis will release toxic oxides such as carbon monoxide.

---

## Section VI - Accidental Release Measures

Remove all sources of ignition, absorb with a suitable absorbent (such as paper towels) and dispose.

---

## Section VII - Handling and Storage

Store in a closed container, away from open flames or other sources of ignition.

---

## Section VIII - Exposure Control/Personal Protection

*Airborne Exposure Limits:* See section III.

*Ventilation System:* Usually not required. When required, Refer to the ACGIH document, "Industrial Ventilation, a Manual of Recommended Practices" for details about ventilation.

*Personal Respirator:* Usually not required.

*Skin protection:* Protective gloves are not required but recommended as part of good laboratory practice.

*Eye Protection:* Laboratory safety goggles or similar products are not required but recommended as part of good laboratory practice.

---

## Section IX - Physical and Chemical Properties

*Boiling Point:* 84°C (183°F)

*Density:* 0.97 g/ml

*Vapor pressure (mm Hg):* Unknown

*Evaporation Rate (Water= 1):* 1

*Vapor Density (air = 1):* Unknown

*Solubility:* Infinitely miscible with water

*Appearance and Odor:* A clear brown solution with the odor of lavender oil.

---

## Section X - Stability and Reactivity

*Stability:* Freezes at low temperature.

*Hazardous Decomposition Products:* Nothing unusual.

*Hazardous polymerization:* Will not occur.

*Incompatibilities:* Oxidizers.

*Conditions to avoid:* heat, flame and sources of ignition.

---

## Section XI - Toxicological Information

Chronic consumption of ethanol is believed to be linked to liver disease, cancer and birth defects.

Cancer lists

<u>Ingredient</u>	<u>Known Carcinogenicity?</u>	<u>NTP?</u>	<u>Anticipated?</u>	<u>IARC Category</u>
Ethanol	no	no	no	none
Glycerin	no	no	no	none

---

## Section XII - Ecological Information

*Environmental Fate:* Biodegradable.

*Environmental Toxicity:* None expected.

Ethanol evaporates quickly and is not expected to bioaccumulate. The material is removed from the air by dry and liquid adsorption. The half-life for ethanol in the atmosphere is one to ten days.

---

## Section XIII - Disposal Considerations

Usually not restricted but local governments can restrict the amount of alcohol that may be flushed down drain. Insure compliance with all government regulations.

---

**Section XIV - Transportation Information**

DOT/IATA Shipping name: Ethanol Solution

Hazard Class: 3

Packaging Group III

Hazard Label: Flammable liquid

UN Identification Number: UN1170

Bottles smaller than 32 Fl. Oz. are eligible to be shipped under ORM-D or limited quantity exemptions [49 CFR section 173.150(b)(2), 173.150(C) and IATA Y341].

---

**Section XV - Regulatory Information****Chemical Inventory Status**

---

<u>Ingredient</u>	<u>TSCA</u>	<u>EC</u>
Ethanol	Yes	Yes
Glycerin	Yes	Yes

**Federal, State and International Regulations**

---

<u>Ingredient</u>	<u>SARA 302</u>		<u>SARA 313</u>		<u>RCRA</u>	<u>TSCA</u>	<u>Ca. Prop. 65</u>
	<u>RQ</u>	<u>TPQ</u>	<u>List</u>	<u>Category</u>	<u>261.33</u>	<u>8(D)</u>	
Ethanol	No	No	No	No	No	No	No
Glycerin	No	No	No	No	No	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: Yes

SARA 311/312: Acute: Yes, Chronic: Yes

---

**Section XVI - Other Information**

This information is believed to be correct but is not warranted as such, nor does it purport to be all inclusive.

Revision Date: Apr 21 2015



# 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**

<b><u>General Advice</u></b>	Show this safety data sheet to the doctor in attendance.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists: Get medical advice/attention.
<b>Skin Contact</b>	Wash skin with soap and water.
<b>Inhalation</b>	Remove to fresh air. If symptoms persist, call a doctor.
<b>Ingestion</b>	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**

<b>Physical State</b>	Viscous liquid	<b>Odor</b>	Faint, characteristic
<b>Appearance</b>	Opaque	<b>Odor Threshold</b>	No information available
<b>Color</b>	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	
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





<b>Chronic Toxicity</b>	Carcinogenic potential is unknown.
<b>Target Organ Effects</b>	None known.
<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**  
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**

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

<b>NFPA</b>	<b>Health Hazards</b>	<b>1</b>	<b>Flammability</b>	<b>0</b>	<b>Instability</b>	<b>0</b>	<b>Physical and Chemical Hazards</b>	<b>-</b>
<b>HMIS</b>	<b>Health Hazards</b>	<b>1</b>	<b>Flammability</b>	<b>0</b>	<b>Physical Hazard</b>	<b>0</b>	<b>Personal Protection</b>	<b>-</b>

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**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**