



# 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® Alcohol Prep Pad

### Other means of identification

Product Code(s) P-1005, P-1005-8S

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

Recommended Use Topical skin 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 chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

### GHS Label elements, including precautionary statements

#### Emergency Overview

<b>Signal word</b>	<b>Danger</b>
<b>Hazard Statements</b> Causes serious eye irritation May cause drowsiness or dizziness Highly flammable liquid and vapor	
	
<b>Appearance</b>	Clear, colorless liquid absorbed into white pads
<b>Physical State</b>	Thin liquid absorbed into pads
<b>Odor</b>	Alcohol

### Precautionary Statements - Prevention

Wash hands and face thoroughly after handling  
Wear protective gloves/eye protection  
Avoid breathing mist/vapors/spray  
Use only outdoors or in a well-ventilated area  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.

### Precautionary Statements - 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.  
If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Call a poison center or doctor if you feel unwell  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
In case of fire: Use CO2, dry chemical, or foam for extinction.

### Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.  
Keep cool.

### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal in accordance with all applicable federal, state, and local regulations.

**Hazards not otherwise classified (HNOC)**

Not applicable

**Unknown Toxicity**

None of the mixture consists of ingredient(s) of unknown toxicity

**Other information**

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
Isopropyl alcohol	67-63-0	60 - 80	*

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

**4. FIRST AID MEASURES****First aid measures****General Advice**

Show this safety data sheet to the doctor in attendance.

**Eye Contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.

**Skin Contact**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. In the case of skin irritation, call a doctor.

**Inhalation**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, (trained personnel should) give oxygen. 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 doctor.

**Self-protection of the first aider**

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Remove all sources of ignition. Use personal protective equipment as required.

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

**Most Important Symptoms and Effects** Burning sensation.

**Indication of any immediate medical attention and special treatment needed****Notes to Physician**

Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Dry chemical. Carbon dioxide (CO<sub>2</sub>). Alcohol resistant foam.

### Unsuitable extinguishing media

CAUTION: This product has a very low flash point. Use of water spray when fighting fire may be inefficient. Do not use straight streams.

### Specific Hazards Arising from the Chemical

Vapors can form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.

### Explosion Data

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** Yes.

### Protective equipment and precautions for firefighters

Move containers from fire area if you can do it without risk.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

#### **Personal Precautions**

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Stop leak if you can do it without risk.

#### **Other Information**

Water spray may reduce vapor; but may not prevent ignition in closed spaces.

### Environmental Precautions

#### **Environmental Precautions**

Prevent entry into waterways, sewers, basements or confined areas.

### Methods and material for containment and cleaning up

#### **Methods for Containment**

A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

#### **Methods for cleaning up**

Use clean non-sparking tools to collect absorbed material.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

#### Handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions.

### Conditions for safe storage, including any incompatibilities

#### Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

#### Incompatible Products

Strong oxidizing agents. Acids. Chlorinated compounds.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isopropyl alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m <sup>3</sup>	IDLH: 2000 ppm 10% LEL TWA: 980 mg/m <sup>3</sup> TWA: 400 ppm STEL: 500 ppm STEL: 1225 mg/m <sup>3</sup>

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

None required for consumer use. If splashes are likely to occur: Tight sealing safety goggles.

#### Skin and Body Protection

Wear protective gloves and protective clothing. Long sleeved clothing. Chemical resistant apron. Impervious gloves. Antistatic boots.

#### 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

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

<b>Physical State</b>	Thin liquid absorbed into pads	<b>Odor</b>	Alcohol
<b>Appearance</b>	Clear, thin liquid absorbed into pads	<b>Odor Threshold</b>	No information available
<b>Color</b>	Colorless liquid - white pads		

<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	18° C (liquid)	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	~0.88 (liquid)	None known
Water Solubility	Soluble in water	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	None known

### Other Information

<b>Softening Point</b>	No data available
<b>VOC Content (%)</b>	No data available
<b>Particle Size</b>	No data available
<b>Particle Size Distribution</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.

### Conditions to avoid

Heat, flames and sparks.

### Incompatible materials

Strong oxidizing agents. Acids. Chlorinated compounds.

### Hazardous Decomposition Products

Carbon oxides.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Product Information**

<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Eye Contact</b>	May cause redness, itching, and pain.
<b>Skin Contact</b>	Prolonged contact may cause redness and irritation.
<b>Ingestion</b>	Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Isopropyl alcohol 67-63-0	4.4 g/kg (Rat)	12.8 g/kg (Rabbit)	16000 ppm (Rat, 8 h)

**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** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Isopropyl alcohol 67-63-0		Group 3		X

**IARC (International Agency for Research on Cancer)**

*Group 3 - Not Classifiable as to Carcinogenicity in Humans*

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

*X - Present*

**Reproductive Toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Chronic Toxicity** Contains a known or suspected carcinogen.

**Target Organ Effects** Eyes. Respiratory system. Skin. Blood. Kidney. Liver. Spleen. Systemic Toxicity.

**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)**

6.3 g/kg

**ATEmix (dermal)**

18 g/kg (ATE)

**ATEmix (inhalation-vapor)**

79 ATEmix

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

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

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Isopropyl alcohol 67-63-0	96h EC50: > 1000 mg/L (Desmodesmus subspicatus) 72h EC50: > 1000 mg/L (Desmodesmus subspicatus)	96h LC50: > 1400000 µg/L (Lepomis macrochirus) 96h LC50: = 11130 mg/L (Pimephales promelas) 96h LC50: = 9640 mg/L (Pimephales promelas)		48h EC50: = 13299 mg/L

### Persistence and Degradability

No information available.

### Bioaccumulation

Chemical Name	Log Pow
Isopropyl alcohol 67-63-0	0.05

### 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****DOT**

Limited quantity.

**TDG**

UN-No.	UN1993
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S.
Hazard Class	3
Packing Group	II
Description	UN1993, FLAMMABLE LIQUID, N.O.S. (ISOPROPYL ALCOHOL), 3, II

**ICAO**

UN-No.	UN1993
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S.
Hazard Class	3
Packing Group	II
Description	UN1993, FLAMMABLE LIQUID, N.O.S. (ISOPROPYL ALCOHOL), 3, II

**IATA**

UN-No.	UN1993
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S.
Hazard Class	3
Packing Group	II
Description	UN1993, FLAMMABLE LIQUID, N.O.S. (ISOPROPYL ALCOHOL), 3, II

**IMDG/IMO**

UN-No.	UN1993
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S.
Hazard Class	3
Packing Group	II
EmS No.	F-E, S-E
Description	UN1993, FLAMMABLE LIQUID, N.O.S. (ISOPROPYL ALCOHOL), 3, II, (23°C C.C.)
Classification code	F1
Special Provisions	274, 601, 640D
Description	UN1993, FLAMMABLE LIQUID, N.O.S. (ISOPROPYL ALCOHOL), 3, II
Limited Quantity	1 L
Ventilation	VE01

## 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 contains the following chemical that is 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 %
Isopropyl alcohol - 67-63-0	67-63-0	30 - 60	1.0

#### SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	Yes
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 regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

### US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Isopropyl alcohol 67-63-0	X	X	X	X	

### International Regulations

#### Canada

##### WHMIS Hazard Class

B2 - Flammable liquid

D2B - Toxic materials



**16. OTHER INFORMATION**

<b>NFPA</b>	<b>Health Hazards</b>	<b>2</b>	<b>Flammability</b>	<b>3</b>	<b>Instability</b>	<b>0</b>	<b>Physical and Chemical Hazards</b>	<b>-</b>
<b>HMIS</b>	<b>Health Hazards</b>	<b>2</b>	<b>Flammability</b>	<b>3</b>	<b>Physical Hazard</b>	<b>0</b>	<b>Personal Protection</b>	<b>A</b>

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

**Revision Date** New

**Revision Note** New

**Reference** CLX0011/D005

**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 (SDS) Heparin Lithium Solution (DR-178, DR-179)

### Section 1: Identification

#### Product Identifier

**Product Name:** Heparin Lithium Solution (aqueous solution of Heparin Lithium)  
**Product Code:** DR-178, DR-179

#### Intended Use of the Product

**Recommended Use:** Anticoagulant (blood thinner) that prevents the formation of blood clots

**Manufacturer:** Smiths Medical  
10 Bowman Drive  
Keene, NH 03431

**Telephone (General):** +1 (603) 352-3812

**Emergency telephone number:** +1 (800) 348-6064

### Section 2: Hazard Identification

#### United States (US)

According to OSHA 29 CFR 1910.1200 HCS

#### Classification of the substance or mixture

GHS-US classification

#### Label elements

GHS-US labeling

Hazard pictograms (GHS-US):



**Signal word (GHS-US):**

**Hazard statements (GHS-US):**

Warning

H317 - May cause an allergic skin reaction

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

**Precautionary statements (GHS-US):**

Prevention

P280 – Wash thoroughly after handling

P281 – Use personal protective equipment (gloves and safety glasses)

Response

P301, P331 – If *swallowed*, do not induce vomiting. P301, P311, P315 - If *swallowed*, call a POISON CENTER or get medical attention. If available, administer activated charcoal (6 to 8 heaping teaspoons) with 2 to 3 glasses of water.

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P301, P313 - If *swallowed* and unconscious, get immediate medical attention.  
P303, P361, P362 – If *on skin*, remove contaminated clothing and clean before reuse.  
P303, P352 - If *on skin*, wash with plenty of soap and water.  
P303, P332, P313 - If *on skin* and irritation develops, get medical attention.  
P304, P340 – If *inhaled*, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P304, P341, P313 - If *inhaled* and breathing difficulty occurs, get medical attention.  
P304, P315 - If *inhaled* and not breathing, provide artificial respiration assistance (mouth-to-mouth) and get immediate attention.  
P305, P351 - If *in eyes*, rinse cautiously with water for several minutes.  
P305, P338 – If *in eyes*, remove contact lenses, if present and easy to do. Continue rinsing and flush eyes with copious amounts of water.  
P305, P315 - If *in eyes*, get immediate medical attention.  
No additional information available

Other hazards:

### Section 3: Composition / Information on Ingredients

#### Substances

Name	Product Identifier	%	GHS-US Classification
Heparin Lithium Salt	9045-22-1	<5%	Not a hazardous substance
Calcium Acetate	5743-26-0	<1%	Not a hazardous substance
Water	7732-18-5	94 – 99%	Not a hazardous substance

Contains no hazardous components (one percent or greater) or carcinogens (one-tenth percent or greater)

### Section 4: First Aid Measures

#### Description of first aid measures

Inhalation	- Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing difficulty occurs, get medical attention. If not breathing, provide artificial respiration assistance (mouth-to-mouth) and get immediate attention.
Skin	– Remove contaminated clothing and clean before reuse. If on skin, wash with plenty of soap and water. If irritation develops, get medical attention.

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Eye	- Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing and flush eyes with copious amounts of water. Get immediate medical attention.
Ingestion	- Do not induce vomiting. Call a POISON CENTER or get medical attention. If available, administer activated charcoal (6 to 8 heaping teaspoons) with 2 to 3 glasses of water. If unconscious, get immediate medical attention.

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

Refer to Section 11 – Toxicological Information.

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

If medical advice is needed, have component containers and/or labels at hand.

### Notes to Physician

Medical conditions that generally aggravated by exposure may be hemophilia or individuals on anticoagulant therapy. All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

## Section 5: Firefighting Measures

### Extinguishing media

**Suitable extinguishing media:** Water, carbon dioxide, dry chemical, foam or Halon.

**Unsuitable extinguishing media:** Avoid the use of streaming water, as this may spread the fire.

### Special hazards arising from the substance or mixture

**Unusual fire and explosion hazards:** None known.

**Hazardous combustion products:** Toxic fumes possible when exposed to heat or fire.

### Advice for firefighters

**Firefighting instructions:** Exercise caution when fighting any chemical fire.

**Protection during firefighting:** Firefighters should wear full protective gear. Do not enter fire area without proper protective equipment, including respiratory protection.

## Section 6: Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

**General measures:** Use normal use and handling conditions. Wear protective equipment including eye protection and gloves to avoid exposure.

#### For non-emergency personnel

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

**Emergency procedures:** Evacuate unnecessary personnel.

#### For emergency responders

## **Safety Data Sheet (SDS)** **Heparin Lithium Solution (DR-178, DR-179)**

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

**Emergency procedures:** Ventilate area.

### **Environmental precautions**

Prevent entry to sewers and public waters.

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

**For containment:** Stop leak if you can do it without risk.

**Methods for cleaning up:** Clear up spills immediately. Use absorbent/adsorbent material to control liquids. Dispose of waste safely.

### **Reference to other sections**

Refer to Section 8 – Exposure Controls and Personal Protection

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## **Section 7: Handling and Storage**

### **Precautions for safe handling**

**Handling:** Wear protective equipment including eye protection (safety glasses/goggles) and protective gloves to avoid exposure. If available, when opening, use a laboratory fume hood or local exhaust ventilation. If handled in a ventilated enclosure, respirator, mask, and/or safety glasses may not be required.

### **Conditions for safe storage, including any incompatibilities**

**Storage:** Store at room temperature or refrigeration (2° to 8°C).

**Incompatible materials or ignition sources:** Reaction with strong oxidizing agents (peroxides, nitric acid, etc.) may occur.

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## **Section 8: Exposure Controls / Personal Protection**

### **Control parameters**

<b>Material</b>	<b>Type</b>	<b>Value</b>
Heparin Lithium Salt	Contains no substances with occupational exposure limit values.	
Calcium Acetate	Contains no substances with occupational exposure limit values.	
Water	Contains no substances with occupational exposure limit values.	

### **Exposure controls**

#### **Engineering Measures/Controls**

**Engineering  
Measures/Controls:**

Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable exposure limits. Ensure all national/local regulations are observed.

## Safety Data Sheet (SDS) Heparin Lithium Solution (DR-178, DR-179)

### Personal Protective Equipment



**Pictograms:**

<b>Eye/Face:</b>	Wear safety glasses/goggles.
<b>Hands:</b>	Wear protective gloves.
<b>Skin/Body:</b>	N/A
<b>Respiratory:</b>	N/A
<b>General Industrial Hygiene Considerations:</b>	Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.
<b>Environmental Exposure Controls:</b>	Follow best practice for site management and disposal of waste. Avoid release to the environment.

### Section 9: Physical and Chemical Properties

#### Information on Basic Physical and Chemical Properties

<b>Physical State</b>	Liquid
<b>Appearance</b>	Clear liquid
<b>Color</b>	Yellowish
<b>Odor</b>	None
<b>Odor Threshold</b>	No data available
<b>pH</b>	5.0 to 12.0
<b>Evaporation Rate</b>	No data available
<b>Melting Point</b>	No data available
<b>Freezing Point</b>	No data available
<b>Boiling Point</b>	No data available
<b>Flash Point</b>	No data available
<b>Auto-ignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Flammability</b>	No data available
<b>Vapor Pressure</b>	No data available
<b>Relative Vapor Density at 20°C</b>	No data available
<b>Relative Density</b>	No data available
<b>Density</b>	No data available
<b>Solubility</b>	Soluble
<b>Log Pow</b>	No data available
<b>Log Kow</b>	No data available
<b>Viscosity, Kinematic</b>	No data available
<b>Viscosity, Dynamic</b>	No data available
<b>Explosive Properties</b>	No data available



## Safety Data Sheet (SDS) Heparin Lithium Solution (DR-178, DR-179)

<b>Oxidizing Properties</b>	No data available
<b>Explosive Limits</b>	Not applicable

### Other information

No additional information available.

## Section 10: Stability and Reactivity

**Reactivity:** Reaction with strong oxidizing agents (peroxides, nitric acid, etc.) may occur.

**Chemical stability:** Stable under normal temperatures and pressures.

**Possibility of hazardous reactions:** No data available.

**Conditions to avoid:** Extremely high or low temperatures.

**Incompatible materials:** Strong oxidizing agents.

**Hazardous decomposition products:** No data available.

## Section 11: Toxicological Information

### Information on toxicological effects

**Acute toxicity:** No data available

**Inhalation:** No data available

**Dermal:** No data available

**Skin corrosion/irritation:** No data available

**Serious eye damage/eye irritation:** No data available

**Respiratory or skin sensitization:** No data available

**Germ cell mutagenicity:** No data available

**Carcinogenicity:** No data available

**Reproductive toxicity:** No data available

**Specific target organ toxicity – single exposure:** No data available

**Specific target organ toxicity – repeated exposure:** No data available

**Aspiration hazard:** No data available

**Additional information:** No data available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## Safety Data Sheet (SDS) Heparin Lithium Solution (DR-178, DR-179)

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### Section 12: Ecological Information

**Toxicity:** No data available

**Persistence and degradability:** No data available

**Bioaccumulation potential:** No data available

**Mobility in soil:** No data available

**Other adverse effects:** No data available

**Other information:** No data are available on the adverse effects of this material on the environment.

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### Section 13: Disposal Considerations

#### Waste treatment methods

**Product Waste:** Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Packaging Waste:** Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

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### Section 14: Transport Information

**DOT / TDG / IMDG / IMO / IATA / ICAO:** Not considered dangerous goods.

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### Section 15: Regulatory Information

**REACH No.:** There is no number for this substance.

**State and local regulations must be reviewed by the user to determine applicable regulations for the components.**

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**Safety Data Sheet (SDS)**  
**Heparin Lithium Solution (DR-178, DR-179)**

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<b>Section 16: Other Information</b>
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**Last revision date:** 04/02/2015

**Preparation date:** 04/02/2015

**Disclaimer/statement of liability:** 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 circumstance 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. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.



# 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 Prep Pad

### Other means of identification

Product Code(s) P-1001, P-1001-8S

### 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).

<b>Appearance</b>	Dark brown liquid absorbed into white pads	<b>Physical State</b>	Thin liquid absorbed onto pads	<b>Odor</b>	Faint, characteristic
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### 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: 0.1 ppm (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>	Thin liquid		
<b>Appearance</b>	Opaque thin liquid absorbed into rayon swabs on polystyrene sticks	<b>Odor</b>	Faint, characteristic
<b>Color</b>	Dark brown liquid - white swabs and sticks	<b>Odor Threshold</b>	No information available

<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks/ Method</u></b>
<b>pH</b>	No data available	None known
<b>Melting / freezing point</b>	No data available	None known
<b>Boiling point / boiling 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 Limit in Air</b>		
Upper flammability limit	No data available	None known
Lower flammability limit	No data available	None known
<b>Vapor pressure</b>	No data available	None known
<b>Vapor density</b>	No data available	None known
<b>Specific Gravity</b>	~1.04 (liquid)	None known
<b>Water Solubility</b>	Soluble (liquid)	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	

**Other Information**

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

<b>Product Information</b>	Product does not present an acute toxicity hazard based on known or supplied information.
<b>Inhalation</b>	Specific test data for the substance or mixture is not available.
<b>Eye Contact</b>	Specific test data for the substance or mixture is not available.
<b>Skin Contact</b>	Specific test data for the substance or mixture is not available.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available.
<b>Component Information</b>	No information available.

### Information on toxicological effects

<b>Symptoms</b>	May cause redness and tearing of the eyes.
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### Delayed and immediate effects as well as chronic effects from short and long-term exposure

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

**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

**DOT** Not regulated

**TDG** Not regulated

**ICAO** Not regulated

**IATA** Not regulated

**IMDG/IMO** 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	

### 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>

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

**Revision Date** New

**Revision Note** New

**Reference** INT0007/D111

**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**