Safety Data Sheet

Material Name: Refrigerant Gel Products (SAP)

*** Section 1 – Product and Company Identification ***

Manufacturer Information
Lifoam Industries
235 Schilling Circle
Hunt Valley, MD 21031
Phone: 800-638-1471
Emergency# 410-889-1023

Recommended Use
Refrigerant gel for freezing/refreezing and used to maintain cold temperature.

*** Section 2 – Hazard Identification ***

GHS Classification:
Not Classified

GHS LABEL ELEMENTS
Symbol(s)
None
Signal Word
None
Hazard Statement
None
Precautionary Statements
None

*** Section 3 – Composition/Information on Ingredients ***

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Component</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>7732-18-5</td>
<td>Water</td>
<td>99.24</td>
</tr>
<tr>
<td>9003-04-7</td>
<td>Sodium polyacrylate</td>
<td>0.75-1.5</td>
</tr>
</tbody>
</table>

*** Section 4 – First Aid Measures ***

First Aid: Eyes
If gel does get into eyes, rinse immediately with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.

First Aid: Skin
Wash affected area with soap and water. Seek medical attention for skin irritation.

First Aid: Ingestion
Non-Toxic ingestion, however if adverse symptoms appear, seek medical attention.

First Aid: Inhalation
If the affected person is not breathing, apply artificial respiration.

*** Section 5 – Fire Fighting Measures ***

General Fire Hazards
See section 9 for Flammability Properties.
No hazards associated with product.
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Hazardous Combustion Products
   None

Extinguishing Media
   Use appropriate extinguishing media for surrounding fire.

Unsuitable Extinguishing Media
   None

Fire Fighting Equipment/Instructions
   Firefighters should wear full protective gear.

** Section 6 – Accidental Release Measures **

Recovery and Neutralization
   Spilled product may produce slippery conditions. Use care when attempting to recover spilled gel material.

Materials and Methods for Clean-Up
   Flush spill area with water. Residual spills can be flushed into drain for wastewater treatment.

Emergency Measures
   Isolate area. Keep unnecessary personnel away.

Personal Precautions and Protective Equipment
   None needed.

Environmental Precautions
   None

Prevention of Secondary Hazards
   None

** Section 7 – Handling and Storage **

Handling Procedures
   No special handling needed under normal product use conditions. If gel is accidently released, avoid prolonged eye and skin contact. May be a potential slip hazard.

Storage Procedures
   No special storage necessary.

Incompatibilities
   Not Determined

** Section 8 – Exposure Controls/Personal Protection **

Component Exposure Limits
   ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product’s components.

Engineering Measures
   None needed under normal handling conditions.

Personal Protective Equipment: Respiratory
   None needed under normal handling conditions.

Personal Protective Equipment: Hands
   None needed under normal handling conditions.

Personal Protective Equipment: Eyes
   None needed under normal handling conditions.
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Personal Protective Equipment: Skin and Body
Use appropriate body protection for the job task.

*** Section 9 – Physical & Chemical Properties ***

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Gel/Viscous Liquid</td>
</tr>
<tr>
<td>Physical State</td>
<td>Gel</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>ND</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>NA</td>
</tr>
<tr>
<td>Solubility (H2O)</td>
<td>Soluble</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>ND</td>
</tr>
<tr>
<td>Octanol/H2O Coeff</td>
<td>ND</td>
</tr>
<tr>
<td>Flash Point Method</td>
<td>NA</td>
</tr>
<tr>
<td>Lower Flammability Limit (LFL)</td>
<td>NA</td>
</tr>
<tr>
<td>Auto Ignition</td>
<td>NA</td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
</tr>
<tr>
<td>pH</td>
<td>5.5-6.5</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>NA</td>
</tr>
<tr>
<td>Melting Point</td>
<td>ND</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>ND</td>
</tr>
<tr>
<td>VOC</td>
<td>ND</td>
</tr>
<tr>
<td>Upper Flammability Limit (UFL)</td>
<td>NA</td>
</tr>
<tr>
<td>Burning Rate</td>
<td>NA</td>
</tr>
</tbody>
</table>

*** Section 10 – Chemical Stability & Reactivity Information ***

Chemical Stability
This is a stable material.

Hazardous Reaction Potential
Will not occur.

Conditions to Avoid
None

Incompatible Products
Not Determined

Hazardous Decomposition Products
Not Determined

*** Section 11 – Toxicological Information ***

Acute Toxicity
Component Analysis – LD50/LC50
Water (7732-18-5)
Oral LD50 Rat >90 mL/kg

Sodium polyacrylate (9003-04-7)
Oral LD50 Rat>40 g/kg

Potential Health Effects: Skin Corrosion Property/Stimulativeness
None anticipated under normal product handling conditions. Prolonged skin exposure to accidently released gel may cause skin irritation.

Potential Health Effects: Eye Critical Damage/Stimulativeness
None anticipated under normal product handling conditions. May cause eye irritation if gel is accidently released.
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Potential Health Effects: Ingestion
   Not considered a likely route of exposure under normal product handling conditions.

Potential Health Effects: Inhalation
   No respiratory effects anticipated.

Respiratory Organs Sensitization/Skin Sensitization
   No skin sensitization effects anticipated.

Generative Cell Mutagenicity
   This product is not reported to have any mutagenic effects.

Carcinogenicity
   A. General Product Information
      This product is not reported to have any carcinogenic effects.
   B. Component Carcinogenicity
      None of this product’s components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Reproductive Toxicity
   This product is not reported to have any reproductive toxicity effects.

Specified Target Organ General Toxicity: Single Exposure
   This product is not reported to have any single exposure target organ toxicity effects.

Specified Target Organ General Toxicity: Repeated Exposure
   This product is not reported to have any repeat exposure target organ toxicity effects.

Aspiration Respiratory Organs Hazard
   This product is not reported to have any aspiration hazard effects.

*** Section 12 - Ecological Information ***

Ecotoxicity
   A. General Product Information
      This product is not reported to have any ecotoxicity effects.
   B. Component Analysis – Ecotoxicity – Aquatic Toxicity
      No ecotoxicity data are available for this product’s components.

Persistence/Degradability
   This product has not been tested. Expected to be inherently biodegradable as the primary component is water. The expected environmental half-life for the SAP component is ≥ 100 days.

Bioaccumulation
   No information available for this product.

Mobility in Soil
   No information available for this product.

*** Section 13 – Disposal Considerations ***

Waste Disposal Instructions
   See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

Disposal of Contaminated Containers or Packaging
   Dispose of in accordance with local/regional/national/international regulations, as applicable.
*** Section 14 – Transportation Information ***

DOT Information
Shipping Name: Not Regulated

IATA Information
Shipping Name: Not Regulated

ICAO Information
Shipping Name: Not Regulated

IMDG Information
Shipping Name: Not Regulated

*** Section 15 – Regulatory Information ***

Regulatory Information
Component Analysis
None of this product’s components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations
Component Analysis – State
None of this product’s components are listed on the state lists from CA, MA, MN, NJ, PA, or RI.

Component Analysis – WHMIS IDL
No components are listed in the WHMIS IDL.

Additional Regulatory Information
Component Analysis – Inventory

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS#</th>
<th>TSCA</th>
<th>CAN</th>
<th>EEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>Yes</td>
<td>DSL</td>
<td>EINECS</td>
</tr>
<tr>
<td>Sodium polyacrylate</td>
<td>9003-04-7</td>
<td>Yes</td>
<td>DSL</td>
<td>No</td>
</tr>
</tbody>
</table>

*** Section 16 – Other Information ***

Key/Legend
CAN = Canada; CAS = Chemical Abstract Service; EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; NJTSR = New Jersey Trade Secret Registry.

Literature References
None

Other Information
MSDS-REG-0102
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Revision: A Effective: 02/06/12
Material Name: Refrigerant Gel Products (SAP)

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End of Sheet