1. Identification of Substance:

Product Name: FOAMSULATE 70

Supplier Identification:
Carlisle Spray Foam Insulation

Address:
100 Enterprise Dr.
Cartersville, GA 30120

Telephone: (770) 607-0755

24-Hr. Emergency Phone Number:
CHEMTREC (800) 424-9300
INTERNATIONAL: +1-(703) 527-3887

Product Use: Polyurethane polyol component

2. Hazards Identification:

GHS Ratings:

- Oral Toxicity: Acute Tox. 4 Oral>300+<=2000mg/kg
- Skin corrosive: 1B Destruction of dermal tissue: Exposure < 1 hour Observation < 14 days, visible necrosis in at least one animal
- Eye corrosive: 1 Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5

GHS Hazards

- H302 Harmful if swallowed
- H314 Causes severe skin burns and eye damage
- H318 Causes serious eye damage

GHS Precautions

- P260 Do not breathe dust/fume/gas/mist/vapors/spray
- P264 Wash hands thoroughly after handling
- P270 Do not eat, drink or smoke when using this product
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P310 Immediately call a POISON CENTER in case of overexposure.
- P321 Specific treatment is urgent (see Section 4 First Aid measures)
- P330 Rinse mouth
- P363 Wash contaminated clothing before reuse
- P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
- P405 Store locked up
- P501 Dispose of contents/container in accordance with existing federal, state, and local environmental control laws.
Acute Toxicity:

**Eyes:** Corrosive to eyes.

**Skin:** Irritating to skin.

**Inhalation:** Not expected to be a route of exposure.

**Ingestion:** Harmful if swallowed. Consult physician.

**Chronic Effects:** Possible harmful target organ effects

### 3. Composition/Data on Components:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS number</th>
<th>Weight Concentration %</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol, 1-chloro-, phosphate (3:1)</td>
<td>13674-84-5</td>
<td>20.00% - 30.00%</td>
</tr>
<tr>
<td>Poly(oxy-1,2-ethanediyl), .alpha.-{(4-nonylphenyl)-omega.-hydroxy-, branched}</td>
<td>127087-87-0</td>
<td>10.00% - 20.00%</td>
</tr>
<tr>
<td>Dimethylaminoethoxyethanol</td>
<td>1704-62-7</td>
<td>5.00% - 10.00%</td>
</tr>
<tr>
<td>1,3-Propanediamine, N'-[3-(dimethylamino)propyl]-N,N-dimethyl-</td>
<td>6711-48-4</td>
<td>1.00% - 5.00%</td>
</tr>
<tr>
<td>1,4-Dioxane</td>
<td>123-91-1</td>
<td>0.00% - 0.10%</td>
</tr>
</tbody>
</table>

### 4. First Aid Measures:

**Inhalation:** If inhaled and symptoms ensue, move to fresh air. If breathing is difficult, give oxygen.

**After Eye Contact:** Rinse opened eye for at least 15 minutes under running water. Remove contact lenses if present and easy to do so, and continue rinsing. If irritation persists contact physician.

**After Skin Contact:** Clean affected area with soap and plenty of water.

**After Swallowing:** Consult physician.

**Notes to Physician:** Treat symptomatically.

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SDS for: FOAMSULATE 70

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Flash Point: 200 C (392 F)
LEL: N/A  UEL: N/A

Upper and Lower Explosive Limits listed if known.
Suitable Extinguishing Agents: Water spray, CO2, Foam, Dry chemical.

Information about Protection against Explosions and Fires: Keep away from flames and sources of heat. Closed containers may rupture when exposed to extreme heat.


Protective Equipment: Firefighters should wear a pressure demand self-contained breathing apparatus and protective clothing.

6. Accidental Release Measures:

Person-Related Safety Precautions: Use appropriate personal protective equipment during clean up. Evacuate and keep unnecessary people out of spill area. Avoid contact with skin and eyes.

Measures for Environmental Protection: Cover and contain spill with absorbent material. Collect for proper disposal according to local, state, and federal regulations.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g., cloth, fleece) clean surface thoroughly to remove residual contamination.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

7. Handling and Storage:

Information for Safe Handling: Avoid contact with eyes, skin, or inhalation.

Storage Requirements: Store in dry, well ventilated area. Keep containers tightly closed. Store between 60°F-100°F. Material may settle.

Regulatory Requirements: Obey all local, state, and federal requirements.

8. Exposure Controls and Personal Protection:

<table>
<thead>
<tr>
<th>Chemical Name / CAS No.</th>
<th>OSHA Exposure Limits</th>
<th>ACGIH Exposure Limits</th>
<th>Other Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol, 1-chloro-, phosphate (3:1) 13674-84-5</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
</tbody>
</table>
Poly(oxy-1,2-ethanediyl), alpha-((4-nonylphenyl)-omega-hydroxy-, branched 127087-87-0 | Not Established | Not Established | Not Established

Dimethylaminoethoxyethanol 1704-62-7 | Not Established | Not Established | Not Established

1,3-Propanediamine, N’-[3-(dimethylamino)propyl]-N,N-dimethyl-6711-48-4 | Not Established | Not Established | Not Established

1,4-Dioxane 123-91-1 | 100 ppm TWA | 20 ppm TWA | Not Established

**Engineering Controls:** No specific measures required if proper PPE precautions are followed.

**General Protective and Hygienic Measures:** Usual precautionary measures should be adhered to when handling chemicals.

**Respiratory Protection:** In spray applications, an organic vapor/particulate respirator or air supplied unit is necessary.

**Protection of Hands:** Protective chemical resistant gloves.

**Eye Protection:** Chemical resistant goggles must be worn.

**Body Protection:** Protective work clothing. Launder separately.

**Contaminated Gear:** Observe local requirements. Dispose of in accordance with local/state/federal regulations.

**9. Physical and Chemical Properties:**

Physical properties listed where known.

| **Appearance:** Amber liquid | **Odor:** Amine odor |
| **Vapor Pressure:** N/A | **Odor threshold:** N/A |
| **Vapor Density:** N/A | **pH:** N/A |
| **Specific Gravity:** 1.12 | **Melting point:** N/A |
| **Freezing point:** N/A | **Solubility:** N/A |
| **Boiling range:** 100 - 342°C | **Flash point:** 392°F,200°C |
| **Evaporation rate:** N/A | **Flammability:** N/A |
| **Explosive Limits:** N/A | **Partition coefficient** N/A |
| **Autoignition temperature:** N/A | (n-octanol/water): |
| | **Decomposition temperature:** N/A |

**10. Stability and Reactivity:**

**Chemical Incompatible Materials:** Avoid contact with isocyanates and strong oxidizing agents.

**Hazardous Polymerization:** Not expected to occur.

**Dangerous Products of Decomposition:** Oxides of carbon, oxides of nitrogen, oxides of phosphorus, hydrocarbons, traces of HCN, hydrogen chloride gas.

**11. Toxicological Information:**
Mixture Toxicity
Oral Toxicity LD50: 1,726mg/kg
Dermal Toxicity LD50: 2,747mg/kg
Inhalation Toxicity LC50: 23mg/L

Component Toxicity
13674-84-5 2-Propanol, 1-chloro-, phosphate (3:1)
Oral LD50: 500 mg/kg (Rat)  Dermal LD50: 1,230 mg/kg (Rabbit)  Inhalation LC50: 5 mg/L (Rat)
127087-87-0 Poly(oxy-1,2-ethanediyl), alpha-.(4-nonylphenyl)-omega.-hydroxy-, branched
Oral LD50: 1,310 mg/kg (Rat)  Dermal LD50: 2,000 mg/kg (Rabbit)
1704-62-7 Dimethylaminoethoxyethanol
Oral LD50: 2,460 mg/kg (Rat)  Dermal LD50: 1,410 mg/kg (Rabbit)
6711-48-4 1,3-Propanediamine, N’-[3-(dimethylamino)propyl]-N,N-dimethyl-
Oral LD50: 1,250 mg/kg (Rat)  Dermal LD50: 370 mg/kg (Rabbit)
123-91-1 1,4-Dioxane
Oral LD50: 4,200 mg/kg (Rat)  Inhalation LC50: 49 mg/L (Rat)

Individual Toxicity Values Listed if Known

Acute Toxicity:
Eyes: Corrosive to eyes.
Skin: Irritating to skin.
Inhalation: Not expected to be a route of exposure.
Ingestion: Harmful if swallowed. Consult physician.

Chronic Effects: Possible harmful target organ effects.

Routes of Entry: Ingestion, skin contact, eye contact.
Target Organs: Skin, eyes, reproductive system, kidneys

Chemicals with Known or Possible Carcinogenic Effects:

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Description</th>
<th>% Weight</th>
<th>Carcinogen Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>123-91-1</td>
<td>1,4-Dioxane</td>
<td>0.0 to 0.1%</td>
<td>1,4-Dioxane: IARC group 2B - Possibly carcinogenic to humans</td>
</tr>
</tbody>
</table>

12. Ecological Information:

General Information: Based on experience, no adverse effects are to be expected if correct disposal procedures have been followed as indicated in section 13.

Individual component ecotoxicity listed if known.

Component Ecotoxicity
2-Propanol, 1-chloro-, phosphate (3:1)
96 Hr LC50 Brachydanio rerio: 56.2 mg/L [static]; 96 Hr LC50 Pimephales promelas:
98 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 30 mg/L [static]
48 Hr EC50 Daphnia magna: 63 mg/L
72 Hr EC50 Desmodesmus subspicatus: 45 mg/L; 96 Hr EC50 Pseudokirchneriella subcapitata: 4 mg/L
Poly(oxy-1,2-ethanediyl), \alpha-\text{alpha}-(4-nonylphenyl)-\omega-\text{omega}-hydroxy-, branched
1,3-Propanediamine, N'\text{-[3-(dimethylamino)propyl]-N,N-di-methyl-}

- **48 Hr LC50 Pimephales promelas (fathead minnow): 3.8 - 6.2 mg/L**
- **48 Hr EC50 Daphnia magna: 9.3 - 21.4 mg/L**
- **16 Hr IC50 Bacteria: >1,000 mg/L**
- **3 Hr EC50 Bacteria >1000 mg/l [Static]**
- **48 Hr EC50 Daphnia 50.3 mg/l [Static]**
- **72 Hr ErC50 (growth rate) Algae 7.9 mg/l [Static]**
- **96 Hr LC50 Fish 21.4 mg/l [Static]**

| **13. Disposal Considerations:** |

**Recommendation:** Observe local requirements. Dispose of in accordance with local/state/federal regulations.

**Empty Container Precautions:** Recondition or dispose of empty container in accordance with governmental regulations. If container is to be disposed, ensure all product residues are removed and container is empty prior to disposal.

| **14. Transport Information:** |

**DOT Regulated Components:**
This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods unless specifically cited below:

<table>
<thead>
<tr>
<th>Agency</th>
<th>Proper Shipping Name</th>
<th>UN Number</th>
<th>Packing Group</th>
<th>Hazard Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| **15. Regulatory Information:** |

**OSHA HAZARD COMMUNICATION STANDARD:** This material is classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

**SARA 311/312 Hazard Categories:** Acute health hazard, chronic health hazard.

**WARNING:** This product can expose you to chemicals listed below, which are known to the State of California to cause cancer, birth defects, or reproductive harm. For more information, visit www.P65Warnings.ca.gov

- Ethylene Oxide  75-21-8  1 PPM  CARC
- 1,4-Dioxane  123-91-1  3 PPM  CARC

**Massachusetts Right To Know List:**
- None

**New Jersey Right To Know List:**
- None

**Pennsylvania Right To Know List:**
- None

**SARA 302 Extremely Hazardous Substances:**
- None
Chemicals subject to SARA 313 Reporting:
- None

<table>
<thead>
<tr>
<th>Country</th>
<th>Regulation</th>
<th>All Components Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada</td>
<td>Canada DSL</td>
<td>Yes</td>
</tr>
<tr>
<td>US</td>
<td>Toxic Substances Control Act</td>
<td>Yes</td>
</tr>
</tbody>
</table>

16. Other Information:

Safety Data Sheet issued by Product Safety Department

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Carlisle Spray Foam Insulation. The data on these sheets relates only to the specific material designated herein. Carlisle Spray Foam Insulation assumes no legal responsibility for use or reliance upon this data. It is the user's responsibility to ensure that their activities comply with federal, state, or local laws.

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