MATERIAL SAFETY DATA SHEET
Polyethylene Glycol 400

1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: Polyethylene Glycol 400
Synonyms:
Company Identification:

SISCO RESEARCH LABORATORIES PVT. LTD.
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Fax : 2687 8241
Email : info@srlchem.com, export@srlchem.com
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2 - COMPOSITION, INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>%</th>
<th>EINECS#</th>
</tr>
</thead>
<tbody>
<tr>
<td>25322-68-3</td>
<td>Polyethylene glycol</td>
<td>100.0</td>
<td>unlisted</td>
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</tbody>
</table>

Hazard Symbols: None listed
Risk Phrases: None listed

3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
Hygroscopic (absorbs moisture from the air).

Potential Health Effects
Eye: May cause mild eye irritation.
Skin: May cause mild skin irritation.
Ingestion: May cause irritation of the digestive tract.
Inhalation: May cause respiratory tract irritation.
Chronic: No information found.

4 - FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.
Ingestion: Never give anything by mouth to an unconscious person. Get medical aid. Wash mouth out with water.
Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.
Notes to Physician:

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

Extinguishing Media: For large fires, use water spray, fog or regular foam. Cool containers with flooding quantities of water until well after fire is out. For small fires, use dry chemical or carbon dioxide.

5 - FIRE FIGHTING MEASURES

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

Extinguishing Media: For large fires, use water spray, fog or regular foam. Cool containers with flooding quantities of water until well after fire is out. For small fires, use dry chemical or carbon dioxide.

6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

7 – HANDLING AND STORAGE

Handling: Wash thoroughly after handling. Use only in a well-ventilated area. Minimize dust generation and accumulation. Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Wash clothing before reuse.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits CAS# 25322-68-3:
Germany: 1000 mg/m3 TWA (inhalable fraction)
Netherlands: 1000 mg/m3 MAC

Personal Protective Equipment
Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear a chemical apron. Wear appropriate gloves to prevent skin exposure.

Respirators: A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard EN 149. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Flakes
Color: white to off-white
Melting Point: 104-106°C
Boiling Point: Not available
Freezing/Melting Point: 54-58 deg C
Flash Point: 199 deg C (390.20 deg F)
Molecular Formula: C2H6O2-n

10 - STABILITY AND REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Incompatible materials, dust generation, excess heat.
Incompatibilities with Other Materials: Not available
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide
Hazardous Polymerization: Has not been reported.

11 - TOXICOLOGICAL INFORMATION

RTECS#: CAS# 25322-68-3: TQ3500000 TQ3520000 TQ3560000 TQ3580000 TQ3600000 TQ3610000 TQ3620000 TQ3630000 TQ3650000 TQ3675000 TQ3700000 TQ3800000 TQ3850000 TQ4025000 TQ4026000 TQ4027000 TQ4028000 TQ4030000 TQ4040000 TQ4041000 TQ4050000 TQ4070000 TQ4100000 TQ4105000 TQ4110000 TQ4950000 TQ5090000 TR1579850 ZD2465300 LD50/LC50 RTECS:
CAS# 25322-68-3: Draize test, rabbit, eye: 500 mg/24H Mild;
   Draize test, rabbit, eye: 100 uL Mild;
   Draize test, rabbit, eye: 500 mg Mild;
   Draize test, rabbit, skin: 500 mg/24H Mild;
   Oral, mouse: LD50 = 34 gm/kg;
   Oral, mouse: LD50 = 31 gm/kg;
   Oral, mouse: LD50 = 28915 mg/kg;
   Oral, mouse: LD50 = 36 gm/kg;
   Oral, rabbit: LD50 = 17300 mg/kg;
   Oral, rabbit: LD50 = 76 gm/kg;
   Oral, rabbit: LD50 = 14 gm/kg;
Oral, rabbit: LD50 = 17300 mg/kg;
Oral, rabbit: LD50 = 26800 mg/kg;
Oral, rabbit: LD50 = 19 gm/kg;
Oral, rabbit: LD50 = 28900 mg/kg;
Oral, rabbit: LD50 = 76 gm/kg;
Oral, rat: LD50 = 28 gm/kg;
Oral, rat: LD50 = 31640 mg/kg;
Oral, rat: LD50 = 27500 mg/kg;
Oral, rat: LD50 = 22 gm/kg;
Oral, rat: LD50 = 30200 mg/kg;
Oral, rat: LD50 = 600 mg/kg;
Oral, rat: LD50 = 30 gm/kg;
Oral, rat: LD50 = 32 gm/kg;
Oral, rat: LD50 = 1054

**Carcinogenicity:** Polyethylene glycol - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

**Other:** See actual entry in RTECS for complete information.

### SECTION 12 - ECOLOGICAL INFORMATION

Not available.

### 14 - TRANSPORT INFORMATION

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<tr>
<th>IATA</th>
<th>IMO</th>
<th>RID/ADR</th>
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**Shipping Name:** Not regulated.

**Hazard Class:** Not regulated.

**UN Number:** Not regulated.

**Pcking Group:**

### 15 - REGULATORY INFORMATION

**European/International Regulations**

European Labeling in Accordance with EC Directives

**Hazard Symbols:** Not available

**Risk Phrases:**

Safety Phrases: S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 25322-68-3: 1

**Canada**

CAS# 25322-68-3 is listed on Canada's DSL List T

**US Federal**

TSCA

CAS# 25322-68-3 is listed on the TSCA Inventory.

### 16 - ADDITIONAL INFORMATION
SISCO RESEARCH LABORATORIES provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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