Polyethylene Glycol 400 Monostearate MSDS
**Section 1. Chemical Product and Company Identification**

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HMIS</th>
<th>Personal Protective Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>See Section 15.</td>
</tr>
</tbody>
</table>

**Common Name/Trade Name:** Polyethylene glycol 400 monostearate  
**Catalog Number(s):** P1154

**CAS#**

<table>
<thead>
<tr>
<th>RTECS</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>MD0907300 or TQ5400000</td>
<td>TSCA 8(b) inventory: Polyethylene glycol 400 monostearate</td>
</tr>
</tbody>
</table>

**Synonym:** Polyethyleneglycols monostearate; Poly(oxy-1,2-ethanediyl), alpha-1-(oxooctadecyl)-omega-hydroxy-; Polyethylene glycol monostearate; Reaction product of Polyethylene glycol 400 and commercial stearic acid

**Manufacturer:** SPECTRUM LABORATORY PRODUCTS INC.  
14422 S. SAN PEDRO STREET  
GARDENA, CA 90248

**Commercial Name(s):** Polyoxyl stearates, PEG-8 Stearate, Pegosperse 400 MS

**Chemical Name:** Glycols, polyethylene, monostearate  
**Chemical Family:** Not available.

**Chemical Formula:** POLYMER

**Supplier:** SPECTRUM LABORATORY PRODUCTS INC.  
14422 S. SAN PEDRO STREET  
GARDENA, CA 90248

---

**Section 2. Composition and Information on Ingredients**

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS #</th>
<th>TWA (mg/m³)</th>
<th>STEL (mg/m³)</th>
<th>CEIL (mg/m³)</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) Polyethylene glycol monopalmitate</td>
<td>9004-94-8</td>
<td></td>
<td></td>
<td></td>
<td>25</td>
</tr>
<tr>
<td>2) Polyethylene glycol dipalmitate</td>
<td>32628-06-1</td>
<td></td>
<td></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>3) Polyethylene glycol distearate</td>
<td>9005-08-7</td>
<td></td>
<td></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>4) Polyethylene glycol monostearate</td>
<td>9004-99-3</td>
<td></td>
<td></td>
<td></td>
<td>30</td>
</tr>
<tr>
<td>5) Polyethylene glycol</td>
<td>25322-68-3</td>
<td></td>
<td></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>6) Fatty acid</td>
<td>67701-02-4</td>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

**Toxicological Data on Ingredients:**  
**LD50:** Not available.  
**LC50:** Not available.

---

*Continued on Next Page*
### Section 3. Hazards Identification

<table>
<thead>
<tr>
<th>Potential Acute Health Effects</th>
<th>Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.</th>
</tr>
</thead>
</table>
| Potential Chronic Health Effects | **CARCINOGENIC EFFECTS:** Not available.  
**MUTAGENIC EFFECTS:** Not available.  
**TERATOGENIC EFFECTS:** Not available.  
**DEVELOPMENTAL TOXICITY:** Not available.  
Repeated or prolonged exposure is not known to aggravate medical condition. |

### Section 4. First Aid Measures

| Eye Contact | Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs. |
| Skin Contact | Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used. |
| Serious Skin Contact | Not available. |
| Inhalation | If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. |
| Serious Inhalation | Not available. |
| Ingestion | Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear. |
| Serious Ingestion | Not available. |

### Section 5. Fire and Explosion Data

| Flammability of the Product | May be combustible at high temperature. |
| Auto-Ignition Temperature | Not available. |
| Flash Points | OPEN CUP: 257°C (494.6°F). |
| Flammable Limits | Not available. |
| Products of Combustion | Not available. |
| Fire Fighting Media and Instructions | SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet. |
| Special Remarks on Fire Hazards | Not available. |
| Special Remarks on Explosion Hazards | Not available. |
Section 6. Accidental Release Measures

**Small Spill**
Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Large Spill**
If the product is in its solid form: Use a shovel to put the material into a convenient waste disposal container. If the product is in its liquid form: Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7. Handling and Storage

**Precautions**
Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids, alkalis.

**Storage**
Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8. Exposure Controls/Personal Protection

**Engineering Controls**
Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Personal Protection**
Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

**Personal Protection in Case of a Large Spill**
Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Exposure Limits**
Not available.

Section 9. Physical and Chemical Properties

**Physical state and appearance**
Solid.

**Odor**
Mild fatty

**Taste**
Not available.

**Color**
White

**Molecular Weight**
Not applicable.

**pH (1% soln/water)**
Not available.

**Boiling Point**
Not available.

**Melting Point**
30°C (86°F) - 35°C

**Critical Temperature**
Not available.

**Specific Gravity**
1.05 @ 25 deg. C (Water = 1)

**Vapor Pressure**
Not applicable.

**Vapor Density**
Not available.

**Volatility**
Not available.

**Odor Threshold**
Not available.

**Water/Oil Dist. Coeff.**
Not available.

**Ionicity (in Water)**
Not available.

**Dispersion Properties**
See solubility in water.

**Solubility**
Soluble in cold water.
Soluble in water with slight haze.

Continued on Next Page
### Section 10. Stability and Reactivity Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Stability</strong></td>
<td>The product is stable.</td>
</tr>
<tr>
<td><strong>Instability Temperature</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Conditions of Instability</strong></td>
<td>Heat, incompatible materials</td>
</tr>
<tr>
<td><strong>Incompatibility with various substances</strong></td>
<td>Reactive with oxidizing agents, acids, alkalis.</td>
</tr>
<tr>
<td><strong>Corrosivity</strong></td>
<td>Non-corrosive in presence of glass.</td>
</tr>
<tr>
<td><strong>Special Remarks on Reactivity</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Special Remarks on Corrosivity</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Polymerization</strong></td>
<td>Will not occur.</td>
</tr>
</tbody>
</table>

### Section 11. Toxicological Information

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Routes of Entry</strong></td>
<td>Inhalation. Ingestion.</td>
</tr>
<tr>
<td><strong>Toxicity to Animals</strong></td>
<td>Acute oral toxicity (LD50): 15000 mg/kg [Rabbit].</td>
</tr>
<tr>
<td><strong>Chronic Effects on Humans</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Other Toxic Effects on Humans</strong></td>
<td>Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.</td>
</tr>
<tr>
<td><strong>Special Remarks on Toxicity to Animals</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Special Remarks on Chronic Effects on Humans</strong></td>
<td>May cause adverse reproductive effects based on animal test data. No human data found.</td>
</tr>
</tbody>
</table>
| **Special Remarks on other Toxic Effects on Humans** | Acute Potential Health Effects:  
Skin: May cause mild skin irritation. This product will probably not be absorbed through human skin.  
Eyes: May cause mild eye irritation.  
Inhalation: No toxic effects are known to be associated with inhalation of this material.  
Ingestion: May cause gastrointestinal disturbances. No toxic effects are expected following ingestion of this product.  
Chronic Potential Health Effects:  
Ingestion: Repeated or prolonged ingestion may cause diarrhea, and hypermotility. It may also affect metabolism and the liver based on animal data. |

### Section 12. Ecological Information

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ecotoxicity</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>BOD5 and COD</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Products of Biodegradation</strong></td>
<td>Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.</td>
</tr>
<tr>
<td><strong>Toxicity of the Products of Biodegradation</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Special Remarks on the Products of Biodegradation</strong></td>
<td>Not available.</td>
</tr>
</tbody>
</table>
Section 13. Disposal Considerations

Waste Disposal
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14. Transport Information

DOT Classification
Not a DOT controlled material (United States).

Identification
Not applicable.

Special Provisions for Transport
Not applicable.

Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations
TSCA 8(b) inventory: Polyethylene glycol 400 monostearate

California Proposition 65 Warnings
California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found.
California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.

Other Regulations
Not available. or of its ingredients

Other Classifications
WHMIS (Canada) Not controlled under WHMIS (Canada).
DSCL (EEC) This product is not classified according to the EU regulations.

HMIS (U.S.A.)
National Fire Protection Association (U.S.A.)
Health Hazard 1
Fire Hazard 1
Reactivity 0
Personal Protection E

WHMIS (Canada) (Pictograms)

DSCL (Europe) (Pictograms)

TDG (Canada) (Pictograms)

Continued on Next Page
Polyethylene glycol 400 monostearate

ADR (Europe) (Pictograms)

Protective Equipment

Gloves.

Lab coat.

Dust respirator. Be sure to use an approved/certified respirator or equivalent.

Safety glasses.

CALL (310) 516-8000

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.

Section 16. Other Information

MSDS Code P3990

References Not available.

Other Special Considerations Not available.


Contact Distributor

www.qualityexcipients.com
info@qualityexcipients.com