SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1. Product Identifier
Product Form: Substance
Product Name: Propylene Glycol USP

CAS No: 57-55-6
Synonyms: Propylene Glycol, Monopropylene Glycol

1.2. Intended Use of the Product
Use of the substance/mixture: Skin Cosmetics, pharma excipient

1.3. Name, Address, and Telephone of the Responsible Party
Company
Acme-Hardesty Co.
450 Sentry Parkway
Blue Bell, PA 19422
T 866-226-3834  T 215-591-3610
www.acme-hardesty.com

1.4. Emergency Telephone Number
Emergency Number : 800-424-9300
For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call CHEMTREC – Day or Night

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture
Classification (GHS-US)
Not classified

2.2. Label Elements
GHS-US Labeling
Not applicable

2.3. Other Hazards
No additional information available

2.4. Unknown Acute Toxicity (GHS-US)
No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2-Propanediol</td>
<td>(CAS No) 57-55-6</td>
<td>100</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

Full text of H-Phrases: see section 16

3.2. Mixture
Not applicable

Full text of H-Phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures
First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.

First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
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First-aid Measures After Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/Injuries: None expected under normal conditions of use.
Symptoms/Injuries After Inhalation: None expected under normal conditions of use.
Symptoms/Injuries After Skin Contact: Contact during a long period may cause slight irritation.
Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.
Chronic Symptoms: None known.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed
If medical advice is needed, have product container or label at hand.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing Media
Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire. Alcohol foam, carbon dioxide, dry chemical. Sand.

Unsuitable Extinguishing Media: Do not use water jet.

5.2. Special Hazards Arising From the Substance or Mixture
Fire Hazard: Not considered flammable but will burn at high temperatures.
Explosion Hazard: Product is not explosive.
Reactivity: No reactivity hazard other than the effects described in sub-sections below.

5.3. Advice for Firefighters
Firefighting Instructions: Exercise caution when fighting any chemical fire.
Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures
General Measures: Handle in accordance with good industrial hygiene and safety practice.

6.1.1. For Non-emergency Personnel
Protective Equipment: Use appropriate personal protection equipment (PPE).

6.1.2. For Emergency Responders
Protective Equipment: Equip cleanup crew with proper protection. Use appropriate personal protection equipment (PPE).
Emergency Procedures: Ventilate area.

6.2. Environmental Precautions
Prevent entry to sewers and public waters.

6.3. Methods and Material for Containment and Cleaning Up
For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

6.4. Reference to Other Sections
See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling
Precautions for Safe Handling: Handle in accordance with good industrial hygiene and safety procedures. Wear recommended personal protective equipment.
Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Wash hands and forearms thoroughly after handling.

7.2. Conditions for Safe Storage, Including Any Incompatibilities
Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep away from heat and direct sunlight.

7.3. Specific End Use(s) Skin Cosmetics, pharma excipient
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters
No Occupational Exposure Limits (OELs) have been established for this product or its chemical components.

8.2. Exposure Controls

Appropriate Engineering Controls: Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment:
- **Gloves.** Insufficient ventilation: wear respiratory protection. Protective goggles.
- **Hand Protection:** Wear chemically resistant protective gloves.
- **Eye Protection:** Chemical goggles or safety glasses.
- **Skin and Body Protection:** Wear suitable protective clothing.
- **Respiratory Protection:** Wear approved mask.
- **Other Information:** When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

- **Physical State:** Liquid
- **Appearance:** Colorless.
- **Odor:** Odorless.
- **Odor Threshold:** No data available
- **pH:** No data available
- **Relative Evaporation Rate (butylacetate=1):** No data available
- **Melting Point:** -59 °C (-74°F)
- **Freezing Point:** No data available
- **Boiling Point:** 186 - 189 °C (366.8 - 372.2°F) @20 mmHg
- **Flash Point:** 99 °C (210.2°F)
- **Auto-ignition Temperature:** 371 °C (700°F)
- **Decomposition Temperature:** No data available
- **Flammability (solid, gas):** No data available
- **Vapor Pressure:** No data available
- **Relative Vapor Density at 20 °C:** 0.08 mmHg/0.011 kPa @ 20°C
- **Relative Density:** 1.04 @ 20°C
- **Specific Gravity:** Not available
- **Solubility:** Water: Completely miscible
- **Log Pow:** No data available
- **Log Kow:** No data available
- **Viscosity, Kinematic:** No data available
- **Viscosity, Dynamic:** No data available
- **Explosive Properties:** No data available
- **Oxidizing Properties:** No data available
- **Explosive Limits:** Not applicable

9.2. Other Information
No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: No reactivity hazard other than the effects described in sub-sections below.
10.2 Chemical Stability: Stable under normal temperature and pressure.
10.3 Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
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10.4 Conditions to Avoid: Direct sunlight. Avoid high temperatures.
10.6 Hazardous Decomposition Products: Carbon oxides (CO, CO2).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information On Toxicological Effects

Acute Toxicity: Not classified

<table>
<thead>
<tr>
<th>1,2-Propylene glycol (57-55-6)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 Oral Rat</td>
<td>20000 mg/kg</td>
</tr>
<tr>
<td>LD50 Dermal Rabbit</td>
<td>20800 mg/kg</td>
</tr>
<tr>
<td>ATE (Oral)</td>
<td>20000.000 mg/kg body weight</td>
</tr>
<tr>
<td>ATE (Dermal)</td>
<td>20800.000 mg/kg body weight</td>
</tr>
</tbody>
</table>

Skin Corrosion/Irritation: Not classified

pH: 7

Serious Eye Damage/Irritation: Not classified

pH: 7

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: None expected under normal conditions of use.

Symptoms/Injuries After Skin Contact: Contact during a long period may cause slight irritation.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes.

Symptoms/Injuries After Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Chronic Symptoms: None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

<table>
<thead>
<tr>
<th>1,2-Propylene glycol (57-55-6)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 Fish 1</td>
<td>51600 mg/l [Exposure time: 96 h - Species: Oncorhynchus mykiss [static]]</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>10000 mg/l [Exposure time: 24 h - Species: Daphnia magna]</td>
</tr>
<tr>
<td>LC 50 Fish 2</td>
<td>41 (41 - 47) mg/l [Exposure time: 96 h - Species: Oncorhynchus mykiss [static]]</td>
</tr>
<tr>
<td>EC50 Daphnia 2</td>
<td>1000 mg/l [Exposure time: 48 h - Species: Daphnia magna [Static]]</td>
</tr>
</tbody>
</table>

12.2. Persistence and Degradability

Propylene Glycol USP (57-55-6)

Persistence and Degradability: Easily biodegradable.

12.3. Bioaccumulative Potential

Propylene Glycol USP (57-55-6)

Bioconcentration factor (BCF REACH) 225 L/kg.

Bioaccumulative Potential: Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.

1,2-Propylene glycol (57-55-6)

BCF fish 1 < 1

12.4. Mobility in Soil No additional information available

12.5. Other Adverse Effects

Other Information: Avoid release to the environment.
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SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, and international regulations.

SECTION 14: TRANSPORT INFORMATION

In Accordance With ICAO/IATA/IMDG/DOT

14.1. UN Number Not regulated for transport
14.2. UN Proper Shipping Name Not regulated for transport
14.3. Additional Information
Other information : No supplementary information available.

Transport by Sea Not regulated for transport
Air Transport Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations
1,2-Propylene glycol (57-55-6) Listed on the United States TSCA (Toxic Substances Control Act) inventory
EPA TSCA Regulatory Flag Y2 - Y2 - indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

15.2 US State Regulations
1,2-Propylene glycol (57-55-6) U.S. - Minnesota - Hazardous Substance List
RTK - U.S. - New Jersey - Right to Know Hazardous Substance List
RTK - U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

SECTION 16: OTHER INFORMATION

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

Aquatic Acute Not classified
Hazardous to the aquatic environment - Acute Hazard Not classified

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