Dear Customer,

This File Contains Both The ANSI Material Safety Data Sheet and The GHS Safety Data Sheet For The Same Product

Spectrum is currently transitioning all chemical product labeling from the ANSI\(^1\) format to the GHS\(^2\) format (see note below). In order to ensure that you receive complete labeling during the transition, we have included both the ANSI MSDS and the GHS SDS in a single file. The ANSI MSDS is given first, followed by the GHS SDS. Please use whichever matches the container label.

Why It Matters:

The complete precautionary labeling for this chemical consists of BOTH the label on the container AND the matching Material Safety Data Sheet (for ANSI labels) or Safety Data Sheet (for GHS labels). Both elements of the labeling [Label + (M)SDS] are written to be read and understood together, so as to provide complete precautionary information. It is intended for you to read and understand BOTH before handling or using the chemical.

Picking the Right One: 2 Easy Ways To Tell Whether Your Container Has an ANSI Label or a GHS Label

1) GHS labels: any pictogram displayed in the upper left-hand corner will be inside a red diamond.
   ANSI labels: pictograms, if present, will be inside individual black boxes.

2) GHS labels: on the bottom of the right-hand panel of the label, locate the Lot Number. Directly to the left will be a string of control characters, followed by a single letter. For GHS labels, the string of characters will end in “GHS.”

---

**Label in ANSI Format**

---

**Label in GHS Format**

---

C O R P O R A T E  O F F I C I E S
14422 South San Pedro Street
Gardena, California 90248
PHONE 310.516.8000
FAX 310.516.9843

AN ISO 9001:2008 REGISTERED COMPANY www.spectrumchemical.com
1 American National Standards Institute
2 Globally Harmonized System for Hazard Communication

Sincerely,

Regulatory Affairs
SAFETY DATA SHEET

Preparation Date: 03/16/2015
Revision Date: 03/16/2015
Revision Number: G1

Product identifier

Product code: PO115
Product Name: POLYETHYLENE GLYCOL 600, NF

Other means of identification
Synonyms:
1,2-Ethanediol homopolymer
Alcox E 30
Alcox E 100
Alcox E 130
Alcox E 160
Alcox E 240
Alcox E 45
Alcox E 60
Alcox E 75
Alcox E 1000
Alcox E 15
Alcox E 150
Alcox E 400
Alcox SR
Antarox E 4000
Aquacide III
Aquaffin
Atpeg 300
BDH 301
Badimol
Bradsyn PEG
Brex 2000
Brex 20M
Brex 4000
Brex 550
Brex PEG 300
CAFO 154
Carbowax
Carbowax
Carbowax 100
Carbowax 1000
Carbowax 1350
Carbowax 14000
Carbowax 1500
Carbowax 20
Carbowax 200
Carbowax 20000
Carbowax 25000
Carbowax 300
Carbowax 3350
Carbowax 400
Carbowax 4000
Carbowax 4500
Carbowax 4600
Carbowax 600
Carbowax Sentry
DD 3002
Deactivator H
Emkapol 4200
Ethoxylated 1,2-ethanediol
Ethylene glycol homopolymer
Ethylene glycol polymer
Gafanol E 200
Glycols, polyethylene
HM 500
Lutrol
Macrogol
Merpol OJ
Miralax
Modopeg
Nosilen
Nycline
Oxide Wax AN
Oxyethylene polymer
PEG
PEG 3350
PEG 400
PEG 4000
PEG 6000DS
Pluracol E
Pluracol E 400, E 600, E 1450
Pluriol E 200
Poly(oxy-1,2-ethanediyl, alpha-hydro-omega-hydroxy-
Poly-G
Poly-G600
Polyoxyethylene ether
alpha-Hydro-omega-hydroxypoly(oxy-1,2-ethanediyl)
alpha-Hydro-omega-hydroxypoly(oxyethylene)

CAS #: 25322-68-3
RTECS #: TQ3800000
CI#: Not available

Recommended use of the chemical and restrictions on use
Recommended use: No information available.
Uses advised against: No information available

Supplier: Spectrum Chemicals and Laboratory Products, Inc.
14422 South San Pedro St.
Gardena, CA  90248
(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone number
Chemtrec 1-800-424-9300
Contact Person: Martin LaBenz (West Coast)
Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification
This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)
Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

Not classified

Hazardous not otherwise classified (HNOC)
Not Applicable

Other hazards

Product code: PO115  Product name: POLYETHYLENE GLYCOL 600, NF
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
<th>Trade Secret</th>
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</thead>
<tbody>
<tr>
<td>Polyethylene Glycol 600</td>
<td>25322-68-3</td>
<td>100</td>
<td>*</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

**First aid measures**

**General Advice:**
Poison information centers in each State capital city can provide additional assistance for scheduled poisons (13 1126)

**Skin Contact:**
Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops.

**Eye Contact:**
Flush eye with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.

**Inhalation:**
Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion:**
Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

**Most important symptoms and effects, both acute and delayed**

**Symptoms**
May cause eye/skin irritation. Ingestion may cause nausea, vomiting, and diarrhea.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician:**
Treat symptomatically

**Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

**Extinguishing Media**

**Suitable Extinguishing Media:**
Dry chemical. Carbon dioxide (CO2). Foam.

**Unsuitable Extinguishing Media:**
No information available.

**Specific hazards arising from the chemical**

**Hazardous Combustion Products:**
Carbon monoxide; Carbon dioxide

**Specific hazards:**
May be combustible at high temperatures
May be ignited by heat, sparks or flames
Container explosion may occur under fire conditions or when heated

Product code: PO115

Product name: POLYETHYLENE GLYCOL 600, NF
Specific Methods: Water mist may be used to cool closed containers.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition.

Environmental precautions Prevent from entering into soil, ditches, sewers, waterways, and/or ground water. Prevent product from entering drains.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth).

Methods for cleaning up Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions: Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. Keep away from incompatible materials.

Safe Handling Advice: Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Do not breathe vapors or spray mist. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions: Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.


8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

U.S Occupational Exposure Limits: Not determined

United States

<table>
<thead>
<tr>
<th>Components</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WHEEL</th>
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<tbody>
<tr>
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<td>None</td>
<td>None</td>
<td>None</td>
<td>10 mg/m³ TWA</td>
</tr>
</tbody>
</table>

Canada

Canada Occupational Exposure Limits: Not determined

Product code: PO115 Product name: POLYETHYLENE GLYCOL 600, NF
### Australia and Mexico

**Occupational Exposure Limits for Australia and Mexico:** Not determined

<table>
<thead>
<tr>
<th>Components</th>
<th>Australia</th>
<th>Mexico</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyethylene Glycol 600-25322-68-3</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

### Appropriate engineering controls

**Engineering measures to reduce exposure:** Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

**Individual protection measures, such as personal protective equipment**

#### Personal Protective Equipment

- **Eye protection:** Goggles. Safety glasses with side-shields.
- **Skin and body protection:** Long sleeved clothing. Chemical resistant apron. Gloves.
- **Respiratory protection:** Respiratory protection is not necessary for normal handling. Good room ventilation or use of local exhaust (fume hood) is sufficient. Use a vapor respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapor, inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.
- **Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

### 9. PHYSICAL AND CHEMICAL PROPERTIES
## 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
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<tr>
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<tr>
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<tr>
<td><strong>Odor:</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Taste:</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>Formula:</strong></td>
<td>H(OCH2CH2)nOH</td>
</tr>
<tr>
<td><strong>Formula: Flash Point (°C):</strong></td>
<td>238°C</td>
</tr>
<tr>
<td><strong>Flash Point Tested according to:</strong></td>
<td>Closed cup</td>
</tr>
<tr>
<td><strong>Autoignition Temperature (°C/F):</strong></td>
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<tr>
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<tr>
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<tr>
<td><strong>Miscibility:</strong></td>
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</tr>
<tr>
<td><strong>Solubility:</strong></td>
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</tr>
<tr>
<td></td>
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</tr>
<tr>
<td></td>
<td>Readily soluble in aromatic hydrocarbons</td>
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<tr>
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<td>Slightly soluble in aliphatic hydrocarbons</td>
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<td><strong>Upper Explosion Limit (%):</strong></td>
<td>No information available</td>
</tr>
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</table>

## 10. Stability and Reactivity

**Reactivity**
- Reactive with alkalis
- Reactive with acids
- Reacts with strong oxidizing agents

**Chemical stability**
- **Stability:** Stable under recommended storage conditions
- **Possibility of Hazardous Reactions:** Hazardous polymerization does not occur
- **Conditions to avoid:** Heat. Incompatible materials.
- **Incompatible Materials:** Strong oxidizing agents. Acids. Alkalis.
- **Hazardous decomposition products:** Carbon oxides.

**Other Information**
- **Corrosivity:** No information available
- **Special Remarks on Corrosivity:** No information available

**Product code:** PO115 **Product name:** POLYETHYLENE GLYCOL 600, NF
11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:
None.

Acute Toxicity

Component Information

Polyethylene Glycol 600 - 25322-68-3
- **LD50/oral/rat** = 22 g/kg Oral LD50 Rat
- **LD50/oral/mouse** = 36000 mg/kg
- **LD50/dermal/rat** = No information available
- **LD50/dermal/rabbit** = 20 mL/kg Dermal LD50 Rabbit
- **LC50/inhalation/rat** = No information available
- **LC50/inhalation/mouse** = No information available
- **Other LD50 or LC50 information** = No information available

Product Information

- **LD50/oral/rat** =
  VALUE - Acute Tox Oral = 30000mg/kg
- **LD50/oral/mouse** =
  Value - Acute Tox Oral = 36000mg/kg
- **LD50/dermal/rabbit**
  VALUE - Acute Tox Dermal = 20mL/kg
- **LD50/dermal/rat**
  VALUE - Acute Tox Dermal = 20000mg/kg
- **LC50/inhalation/rat**
  VALUE - Vapor = No information available
  VALUE - Gas = No information available
  VALUE - Dust/Mist = No information available
- **LC50/inhalation/mouse**
  VALUE - Vapor = No information available
  VALUE - Gas = No information available
  VALUE - Dust/Mist = No information available

Symptoms

- **Skin Contact:** May cause mild to moderate skin irritation.
- **Eye Contact:** May cause slight or mild eye irritation.
- **Inhalation**
  Inhalation of mist or vapors may cause respiratory tract (nose, throat), irritation. Symptoms may include coughing, shortness of breath. It may be absorbed into the blood stream with symptoms similar to ingestion. At room temperature, exposure to vapor is minimal due to low volatility. A single exposure is not likely to be hazardous. A single exposure is not likely to be hazardous.
- **Ingestion**
  May cause gastrointestinal tract irritation with nausea, vomiting, and diarrhea.

Product code: PO115  Product name: POLYETHYLENE GLYCOL 600, NF
Aspiration hazard: No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity: No information available

Sensitization: No information available

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic

<table>
<thead>
<tr>
<th>Components</th>
<th>ACGIH - Carcinogens</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
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<tr>
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<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
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</tbody>
</table>

Reproductive toxicity: No data is available

Reproductive Effects: No information available

Developmental Effects: No information available

Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure: No information available

STOT - repeated exposure: No information available

Target Organs: No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment. Toxic to aquatic organisms.

*Polyethylene Glycol 600 - 25322-68-3*

Freshwater Fish Species Data: (LC50): 5000 mg/l 24 hours

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.
Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
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<tbody>
<tr>
<td>Polyethylene Glycol 600</td>
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<td>None</td>
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</tbody>
</table>

**14. TRANSPORT INFORMATION**

**DOT**
- UN-No: Not Regulated
- Proper Shipping Name: No information available
- Hazard Class: No information available
- Subsidiary Risk: No information available
- Packing Group: None
- ERG No: No information available
- Marine Pollutant: No data available
- DOT RQ (lbs): No information available

**TDG (Canada)**
- UN-No: Not Regulated
- Proper Shipping Name: No information available
- Hazard Class: No information available
- Subsidiary Risk: No information available
- Packing Group: No information available
- Description: No information available

**ADR**
- UN-No: Not Regulated
- Proper Shipping Name: No information available
- Hazard Class: No information available
- Packing Group: No information available
- Subsidiary Risk: No information available
- Classification Code: No information available
- Description: No information available
- CEFIC Tremcard No: No information available

**IMO / IMDG**
- UN-No: Not Regulated
- Proper Shipping Name: No information available
- Hazard Class: No information available
- Subsidiary Risk: No information available
- Packing Group: No information available
- Description: No information available
- IMDG Page: No information available
- Marine Pollutant: No information available
- MFAG: No information available
- Maximum Quantity: No information available

**RID**
- UN-No: Not Regulated
- Proper Shipping Name: No information available
- Hazard Class: No information available
- Subsidiary Risk: No information available
- Packing Group: No information available
- Classification Code: No information available
14. TRANSPORT INFORMATION

Description: No information available

ICAO
- UN-No: Not Regulated
- Proper Shipping Name: No information available
- Hazard Class: No information available
- Subsidiary Risk: No information available
- Packing Group: No information available
- Description: No information available

IATA
- UN-No: Not Regulated
- Proper Shipping Name: No information available
- Hazard Class: No information available
- Subsidiary Risk: No information available
- Packing Group: No information available
- Description: No information available

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Components</th>
<th>U.S. TSCA</th>
<th>KOREA KECL</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
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<tbody>
<tr>
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<td>Present XU</td>
<td>Present KE-20228</td>
<td>Present</td>
<td>Present (8)-429 (7)-129 (2)-441</td>
<td>Not present</td>
<td>Present</td>
<td>Not present</td>
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</table>

U.S. Regulations

Polyethylene Glycol 600

Minnesota - Hazardous Substance List: Present

FDA - Direct Food Additives
- 21 CFR 172.210
- 21 CFR 172.820
- 21 CFR 173.310
- 21 CFR 173.340

FDA - 21 CFR - Total Food Additives
- 172.210
- 172.820
- 173.310
- 173.340
- 175.105
- 175.300
- 176.180
- 178.3750
- 73.1


Chemicals Known to the State of California to Cause Cancer:
WARNING: This product contains a chemical known to the State of California to cause cancer. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:
WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. (See table below)

<table>
<thead>
<tr>
<th>Components</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyethylene Glycol 600</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

CERCLA/SARA

<table>
<thead>
<tr>
<th>Components</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyethylene Glycol 600</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

U.S. TSCA

Product code: PO115
Product name: POLYETHYLENE GLYCOL 600, NF
Components | TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS) | TSCA 8(d) - Health and Safety Reporting
---|---|---
Polyethylene Glycol 600 | Not Applicable | Not Applicable

Canada

WHMIS hazard class:
Non-controlled

Canada Controlled Products Regulation:
This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

<table>
<thead>
<tr>
<th>Components</th>
<th>Canada (DSL)</th>
<th>Canada (NDSL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyethylene Glycol 600</td>
<td>Present</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>CEPA Schedule I - Toxic Substances</th>
<th>CEPA - 2010 Greenhouse Gases Subject to Manditory Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyethylene Glycol 600</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

EU Classification

R-phrase(s)
not determined (not applicable)

S-phrase(s)
none

<table>
<thead>
<tr>
<th>Components</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyethylene Glycol 600</td>
<td></td>
<td>No information</td>
<td></td>
</tr>
</tbody>
</table>

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:
None.

16. OTHER INFORMATION
Disclaimer: All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) 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 SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. 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 SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.
Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

<table>
<thead>
<tr>
<th>Common Name/ Trade Name</th>
<th>Polyethylene glycol 600</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer</td>
<td>SPECTRUM LABORATORY PRODUCTS INC.</td>
</tr>
<tr>
<td></td>
<td>14422 S. SAN PEDRO STREET</td>
</tr>
<tr>
<td></td>
<td>GARDENA, CA 90248</td>
</tr>
<tr>
<td>Catalog Number(s)</td>
<td>XX271,YY1236, PO115</td>
</tr>
<tr>
<td>CAS#</td>
<td>25322-68-3</td>
</tr>
<tr>
<td>RTECS</td>
<td>TQ3800000</td>
</tr>
<tr>
<td>TSCA</td>
<td>TSCA 8(b) inventory:</td>
</tr>
<tr>
<td></td>
<td>Polyethylene glycol 600</td>
</tr>
<tr>
<td>Commercial Name(s)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Synonym</td>
<td>Not available.</td>
</tr>
<tr>
<td>Chemical Name</td>
<td>Not available.</td>
</tr>
<tr>
<td>Chemical Family</td>
<td>Not available.</td>
</tr>
<tr>
<td>Chemical Formula</td>
<td>H(OCH2CH2)nOH</td>
</tr>
<tr>
<td>Supplier</td>
<td>SPECTRUM LABORATORY PRODUCTS INC.</td>
</tr>
<tr>
<td></td>
<td>14422 S. SAN PEDRO STREET</td>
</tr>
<tr>
<td></td>
<td>GARDENA, CA 90248</td>
</tr>
</tbody>
</table>

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 600</td>
<td>25322-68-3</td>
<td>10</td>
<td></td>
<td></td>
<td>100</td>
</tr>
</tbody>
</table>

Toxicological Data on Ingredients: Not applicable.

Section 3. Hazards Identification

Potential Acute Health Effects: Slightly hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, of inhalation.

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.

Continued on Next Page
### Section 4. First Aid Measures

<table>
<thead>
<tr>
<th><strong>Eye Contact</strong></th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Skin Contact</strong></td>
<td>Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.</td>
</tr>
<tr>
<td><strong>Serious Skin Contact</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.</td>
</tr>
<tr>
<td><strong>Serious Inhalation</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Serious Ingestion</strong></td>
<td>Not available.</td>
</tr>
</tbody>
</table>

### Section 5. Fire and Explosion Data

| **Flammability of the Product** | May be combustible at high temperature. |
| **Auto-Ignition Temperature** | Not available. |
| **Flash Points** | CLOSED CUP: 238°C (460.4°F). OPEN CUP: 273°C (523.4°F). |
| **Flammable Limits** | Not available. |
| **Products of Combustion** | These products are carbon oxides (CO, CO2). |
| **Fire Hazards in Presence of Various Substances** | Slightly flammable to flammable in presence of open flames and sparks, of heat. |
| **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** | Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements. |
| **Large Spill** | 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. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities. |

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*Continued on Next Page*
Section 7. Handling and Storage

Precautions
Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapor/spray. 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 Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection Safety glasses. Synthetic apron. Gloves (impervious). Respiratory protection is not necessary for normal handling. Good room ventilation or use of local exhaust (fume hood) is sufficient. Use a vapor respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapor, inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.

Personal Protection in Case of a Large Spill Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits TWA: 10 (mg/m³) from AIHA Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical state and appearance Liquid. Odor Characteristic.
Molecular Weight 570-630 g/mole Taste Not available.
P (1% soln/water) Not available. Color Colorless.
Boiling Point Decomposition temperature: >200°C (392°F) Vapor Density Not available.
Melting Point 20°C (68°F) - 25°C Volatility Not available.
Critical Temperature Not available. Odor Threshold Not available.
Vapor Pressure <0 kPa (@ 20°C) Ionicity (in Water) Not available.
Vapor Density Not available. Dispersion Properties See solubility in water.
Volatile Not available.
Odor Threshold Not available. Solubility Soluble in cold water, hot water.
Specific Gravity Not available. Soluble in many organic solvents. Not available.

Continued on Next Page
Section 10. Stability and Reactivity Data

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

Section 11. Toxicological Information

<table>
<thead>
<tr>
<th>Routes of Entry</th>
<th>Absorbed through skin. Eye contact.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toxicity to Animals</td>
<td>Acute oral toxicity (LD50): 28000 mg/kg [Rat], 30000 mg/kg [Rat], 36000 mg/kg [Mouse]. Acute dermal toxicity (LD50): &gt;20000 mg/kg [Rabbit].</td>
</tr>
<tr>
<td>Chronic Effects on Humans</td>
<td>Not available.</td>
</tr>
<tr>
<td>Other Toxic Effects on Humans</td>
<td>Slightly hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation.</td>
</tr>
<tr>
<td>Special Remarks on Toxicity to Animals</td>
<td>Not available.</td>
</tr>
<tr>
<td>Special Remarks on Chronic Effects on Humans</td>
<td>Not available.</td>
</tr>
<tr>
<td>Special Remarks on other Toxic Effects on Humans</td>
<td>Acute Potential Health Effects: Skin: May cause mild skin irritation. It may be absorbed through intact (undamaged) skin, but is unlikely to be absorbed in harmful amounts. Contact with damaged skin may result in absorption of harmful amounts. Eyes: May cause mild eye irritation. Inhalation: Inhalation of mist or vapor may cause respiratory tract irritation. At room temperature, exposure to vapor is minimal due to its low volatility (vapor pressure). A single exposure is not likely to be hazardous. Ingestion: May cause gastrointestinal tract irritation with nausea, vomiting, diarrhea. It may cause flatulence and taste perversion. It may affect the cardiovascular system (cardiac arrhythmias, hypotension). Aspiration may lead to pulmonary edema. Chronic Potential Health Effects: Skin: Repeated or prolonged exposure to damaged skin, as when PEG-containing topical medical medications are used to treat burn patients, may result in absorption of toxic amounts and may cause metabolic acidosis, hyperosmolality, hypocalcemia, and may affect the kidneys.</td>
</tr>
</tbody>
</table>

Section 12. Ecological Information

<table>
<thead>
<tr>
<th>Ecotoxicity</th>
<th>Ecotoxicity in water (LC50): &gt;5000 mg/l 24 hours [Fish (Carassius auratus)].</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOD5 and COD</td>
<td>Not available.</td>
</tr>
<tr>
<td>Products of Biodegradation</td>
<td>Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.</td>
</tr>
<tr>
<td>Toxicity of the Products of Biodegradation</td>
<td>The product itself and its products of degradation are not toxic.</td>
</tr>
<tr>
<td>Special Remarks on the Products of Biodegradation</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.

**DOT (Pictograms)**

**Section 15. Other Regulatory Information and Pictograms**

**Federal and State Regulations**
Minnesota: Polyethylene glycol 600
TSCA 8(b) inventory: Polyethylene glycol 600

**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**
EINECS: This product is not on the European Inventory of Existing Commercial Chemical Substances.
Canada: Listed on Canadian Domestic Substance List (DSL).
China: Listed on National Inventory.
Japan: Listed on National Inventory (ENCS).
Korea: Listed on National Inventory (KECI).
Philippines: Listed on National Inventory (PICCS).
Australia: Listed on AICS.

**Other Classifications**
**WHMIS (Canada)**
Not controlled under WHMIS (Canada).

**DSCL (EEC)**
This product is not classified according to the EU regulations.
Not applicable.

**HMIS (U.S.A.)**

- **Health Hazard**: 1
- **Fire Hazard**: 1
- **Reactivity**: 0
- **Personal Protection**: C

**National Fire Protection Association (U.S.A.)**

- **Flammability**: 1
- **Reactivity**: 0
- **Specific hazard**: Not applicable

**WHMIS (Canada) (Pictograms)**

**DSCL (Europe) (Pictograms)**

**TDG (Canada) (Pictograms)**

Continued on Next Page
Polyethylene glycol 600

ADR (Europe)
(Pictograms)

Protective Equipment

- Gloves (impervious).
- Synthetic apron.
- Not applicable.
- Safety glasses.

MAJOR USES: AS WATER-SOL LUBRICANTS FOR RUBBER MOLDS, TEXTILE FIBERS & METAL-FORMING OPERATIONS; IN FOOD & FOOD PACKAGING; IN HAIR PREPN, IN COSMETICS IN GENERAL; IN WATER PAINTS, PAPER COATINGS, POLISHES; IN CERAMIC INDUST; PHARMACEUTIC AID (OINTMENT & SUPPOSITORY BASE); VET: OINTMENT BASE PLASTICIZERS, SOFTENING AGENTS, MOLD RELEASE AGENTS, SOLVENTS, DISPERSING AGENTS, BINDERS; CHEM INTERMEDIATES

Section 16. Other Information

<table>
<thead>
<tr>
<th>MSDS Code</th>
<th>P3984</th>
</tr>
</thead>
<tbody>
<tr>
<td>References</td>
<td>Not available.</td>
</tr>
<tr>
<td>Other Special Considerations</td>
<td>MAJOR USES: AS WATER-SOL LUBRICANTS FOR RUBBER MOLDS, TEXTILE FIBERS &amp; METAL-FORMING OPERATIONS; IN FOOD &amp; FOOD PACKAGING; IN HAIR PREPN, IN COSMETICS IN GENERAL; IN WATER PAINTS, PAPER COATINGS, POLISHES; IN CERAMIC INDUST; PHARMACEUTIC AID (OINTMENT &amp; SUPPOSITORY BASE); VET: OINTMENT BASE PLASTICIZERS, SOFTENING AGENTS, MOLD RELEASE AGENTS, SOLVENTS, DISPERSING AGENTS, BINDERS; CHEM INTERMEDIATES</td>
</tr>
</tbody>
</table>

Verified by Sonia Owen.  

CALL (310) 516-8000

Notice to Reader

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