Phenoxyethanol, Reagent MSDS
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 format to the GHS 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 understood 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:"

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[Image of a label with chemical information and symbols]

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CORPORATE OFFICES
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
3 American National Standards Institute
4 Globally Harmonized System for Hazard Communication

Sincerely,

Regulatory Affairs
1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product code: P1077
Product Name: PHENOXYETHANOL, REAGENT
Chemical Name: No information available
Synonyms: 1-Hydroxy-2-phenoxyethane
Arosol
beta-Hydroxyethyl phenyl ether
Dowanol EP
Dowanol EPH
Emeressence 1160
Emery 6705
Ethylene glycol monophenyl ether
Ethylene glycol phenyl ether
Glycol monophenyl ether
Phenoexethol
Phenoexetol
Phenoxyethanol
Phenoxyethyl alcohol
Phenoxytol
Phenyl cellosolve
Phenylmonoglycol ether
Rose ether
Recommended use: Fixative. Solvent.
CAS #: 122-99-6
RTECS #: KM0350000
Formula: C8-H10-O2
CI#: Not 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: Regina Wachenheim (East Coast)
Contact Person: Martin LaBenz (West Coast)
2. HAZARDS IDENTIFICATION

<table>
<thead>
<tr>
<th><strong>EMERGENCY OVERVIEW</strong></th>
<th>WARNING! IRRITANT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Irritating to eyes</td>
</tr>
<tr>
<td></td>
<td>May cause skin irritation</td>
</tr>
<tr>
<td></td>
<td>May be harmful if swallowed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Odor:</th>
<th>Physical state:</th>
<th>Appearance:</th>
<th>Color:</th>
</tr>
</thead>
</table>

**OSHA Regulatory Status**
This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

**POTENTIAL HEALTH EFFECTS**

**Principal Routes of Exposure:**
Skin. Eyes. Ingestion. Inhalation.

**Acute Potential Health Effects:**

**Skin Contact:**
May cause skin irritation. Mild skin irritation.

**Eye Contact:**
Causes eye irritation. Moderate to severe eye irritation.

**Inhalation:**
May cause irritation of respiratory tract.

**Ingestion:**
May be harmful if swallowed. May cause nausea vomiting, diarrhea, abdominal pain, lumbar pain. May cause central nervous system effects. It may affect the kidneys.

**Chronic Potential Health Effects:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Carcinogen Status:</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Phenoxyethanol 122-99-6 (100)</td>
<td>No information available</td>
</tr>
</tbody>
</table>

**Target Organs:**
No information available

**Mutagenic Effects:**
May affect genetic material

**Teratogenic Effects:**
No information available

**Aggravated Medical Conditions:**
No information available

See Section 11 for additional Toxicological Information

**POTENTIAL ENVIRONMENTAL EFFECTS**
No information available

**Product code:** P1077  
**Product name:** PHENOXYETHANOL, REAGENT
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Phenoxyethanol</td>
<td>122-99-6</td>
<td>100</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

**General Advice:** Poison information centres in each State capital city can provide additional assistance for scheduled poisons (13 1126). First aider needs to protect himself. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops. If skin irritation persists, call a physician.

**Eye Contact:** Flush eye with water for 15 minutes. Get medical attention.

**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. Obtain medical attention.

**Notes to Physician:** Treat symptomatically

5. FIRE-FIGHTING MEASURES

**Flammable Properties**

<table>
<thead>
<tr>
<th>Flashpoint (°C/°F):</th>
<th>110 °C/230 °F</th>
</tr>
</thead>
<tbody>
<tr>
<td>121.1-127 °C/250-260 °F</td>
<td></td>
</tr>
</tbody>
</table>

**Flash Point Tested according to:**
Closed cup
Open cup

<table>
<thead>
<tr>
<th>Lower Explosion Limit (%):</th>
<th>1.4%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper Explosion Limit (%):</td>
<td>9%</td>
</tr>
</tbody>
</table>

**Autoignition Temperature (°C/°F):** No information available

**Suitable Extinguishing Media:** Carbon dioxide (CO2). Dry chemical. Water spray mist or foam.

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

**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.

**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.

Product code: P1077 Product name: PHENOXYETHANOL, REAGENT
**6. ACCIDENTAL RELEASE MEASURES**

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

**Environmental Precautions:**
Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up:**
Absorb spill with inert material (e.g. vermiculite, dry sand or earth), then place in a suitable chemical waste container. Clean contaminated surface thoroughly.

**7. HANDLING AND STORAGE**

**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.

**Storage**

**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.

**Incompatible Materials:**
Oxidizing agents.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**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.

**Personal Protective Equipment**

**Eye protection:** Goggles.

**Skin and body protection:** Long sleeved clothing. Chemical resistant apron. Gloves.
Respiratory protection: Vapor respirator. Be sure to use an approved/certified respirator or equivalent. 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. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

National occupational exposure limits

United States
U.S Occupational Exposure Limits: Not determined

<table>
<thead>
<tr>
<th>Components</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WHEEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Phenoxyethanol - 122-99-6</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Canada
Canada Occupational Exposure Limits: Not determined

<table>
<thead>
<tr>
<th>Components</th>
<th>Alberta</th>
<th>British Columbia</th>
<th>Ontario</th>
<th>Quebec</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Phenoxyethanol 122-99-6</td>
<td>None</td>
<td>None</td>
<td>25 ppm TWA</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>141 mg/m^3 TWA</td>
<td></td>
</tr>
</tbody>
</table>

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>2-Phenoxyethanol 122-99-6</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

9. PHYSICAL AND CHEMICAL PROPERTIES
### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>Appearance:</th>
<th>Color:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Odor:</th>
<th>Taste</th>
<th>Molecular/Formula weight:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Flash point (°C):</th>
<th>Lower Explosion Limit (%):</th>
<th>Upper Explosion Limit (%):</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available</td>
<td>1.4%</td>
<td>9%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Autoignition Temperature (°C/°F):</th>
<th>Melting point/range(°C/°F):</th>
<th>Boiling point/range(°C/°F):</th>
</tr>
</thead>
<tbody>
<tr>
<td>No information available</td>
<td>14 °C/57.2 °F</td>
<td>245.2 °C/473.4 °F</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>pH:</th>
<th>Specific gravity:</th>
<th>Density (g/cm³):</th>
</tr>
</thead>
<tbody>
<tr>
<td>No information available</td>
<td>1.1031-1094</td>
<td>No information available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Decomposition temperature(°C/°F):</th>
<th>Bulk density:</th>
</tr>
</thead>
<tbody>
<tr>
<td>No information available</td>
<td>No information available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Evaporation rate:</th>
<th>Vapor density:</th>
<th>VOC content (g/L):</th>
</tr>
</thead>
<tbody>
<tr>
<td>No information available</td>
<td>4.8</td>
<td>No information available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Odor threshold (ppm):</th>
<th>Partition coefficient (n-octanol/water):</th>
</tr>
</thead>
<tbody>
<tr>
<td>No information available</td>
<td>0.1</td>
</tr>
</tbody>
</table>

**Solubility:**
Slightly soluble in water

### 10. STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Stability:</th>
<th>Conditions to avoid:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stable at normal conditions</td>
<td>Heat. Ignition sources. Incompatible materials.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Incompatible Materials:</th>
<th>Hazardous decomposition products:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Possibility of Hazardous Reactions:</th>
<th>Polymerization:</th>
</tr>
</thead>
<tbody>
<tr>
<td>No information available</td>
<td>Hazardous polymerisation does not occur</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Corrosivity:</th>
<th>Special Remarks on Corrosivity:</th>
</tr>
</thead>
<tbody>
<tr>
<td>No information available</td>
<td>No information available</td>
</tr>
</tbody>
</table>

### 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity**

**Component Information**

2-Phenoxyethanol - 122-99-6

- **LD50/oral/rat** = 1260 mg/kg Oral LD50 Rat
- **LD50/oral/mouse** = 933 mg/kg
- **LD50/dermal/rat** = = 14422 mg/kg Dermal LD50 Rat

**Product code:** P1077  
**Product name:** PHENOXYETHANOL, REAGENT
Product Information

LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
LD50/dermal/rabbit = 5 mL/kg
LD50/dermal/rat = 14422mg/kg
LD50/oral/mouse = 933mg/kg
LD50/oral/rat = 1260mg/kg

Local Effects

Skin irritation: May cause skin irritation. Mild skin irritation.
Eye irritation: Causes eye irritation.
Inhalation: May cause irritation of respiratory tract.
Ingestion: May be harmful if swallowed. May cause nausea vomiting, diarrhea, abdominal pain, lumbar pain. May affect behavior/central nervous system (central nervous system depression), urinary system (kidneys - polyuria, oliguria, anuria, acute renal failure).

Sensitization: No information available

Chronic Toxicity

Chronic Toxicity Prolonged or repeated ingestion may affect brain, liver, blood, urinary system, and behavior/central nervous system..

Carcinogenic effects: Not considered carcinogenic

<table>
<thead>
<tr>
<th>Components</th>
<th>NTP</th>
<th>IARC</th>
<th>OSHA HCS - Carcinogens</th>
<th>ACGIH - Carcinogens</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Phenoxyethanol</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

Mutagenic Effects: May affect genetic material
Reproductive Effects: No information available
Teratogenic Effects: No information available
Target Organs: No information available

12. ECOLOGICAL INFORMATION

ECOTOXICITY

Toxicity to terrestrial and aquatic plants and animals: No information available
Ecotoxicity effects: No data available.
Aquatic toxicity: No information available

Product code: P1077
Product name: PHENOXYETHANOL, REAGENT
13. DISPOSAL CONSIDERATIONS

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>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Phenoxyethanol</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

DOT
UN-No: UN2525
Proper Shipping Name: Ethyl oxalate
Hazard Class: 6.1
Packing Group: None
Subsidiary Risk: Not applicable
Marine Pollutant: No data available
ERG No: 156
DOT RQ (lbs): No information available

TDG (Canada)
UN-No: UN2525
Proper Shipping Name: Ethyl oxalate
Hazard Class: 6.1
Packing Group: III
Subsidiary Risk: No information available
Description: No information available

ADR
UN-No: UN2525
Proper Shipping Name: Ethyl oxalate
Hazard Class: 6.1
Packing Group: III
Subsidiary Risk: No information available
Classification Code: No information available
Description: No information available
CEFIC Tremcard No: No information available

IMO / IMDG
UN-No: UN2525
Proper Shipping Name: Ethyl oxalate
Hazard Class: 6.1
Packing Group: III
Subsidiary Risk: No information available
Description: No information available
IMDG Page: No information available
Marine Pollutant: No information available
EMS: F-A
MFAG: No information available
Maximum Quantity: No information available

RID
UN-No: UN2525
Proper Shipping Name: Ethyl oxalate
Hazard Class: 6.1
Packing Group: III
Subsidiary Risk: No information available
Classification Code: No information available
Description: No information available

ICAO
UN-No: UN2525
Proper Shipping Name: Ethyl oxalate
Hazard Class: 6.1
Packing Group: III
Subsidiary Risk: No information available
Description: No information available

IATA
UN-No: UN2525
Proper Shipping Name: Ethyl oxalate
Hazard Class: 6.1
Packing Group: III
Subsidiary Risk: No information available
ERG Code: 6L
Description: No information available

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Components</th>
<th>U.S. TSCA</th>
<th>Philippines (PICCS)</th>
<th>KOREA KECL</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Phenoxyethanol</td>
<td>Present</td>
<td>Present</td>
<td>Present KE-28257</td>
<td>Present (9)-1277 (7)-78 (3)-558</td>
<td>Present</td>
<td>Present</td>
<td>Present 204-589-7</td>
</tr>
</tbody>
</table>

U.S. Regulations


Chemicals Known to the State of California to Cause Cancer:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)
### Components

<table>
<thead>
<tr>
<th>Component</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Phenoxyethanol</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>Component</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>2-Phenoxyethanol</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

### U.S. TSCA

<table>
<thead>
<tr>
<th>Component</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Phenoxyethanol</td>
<td>Not Applicable</td>
<td>07/01/1983 07/01/1993</td>
</tr>
</tbody>
</table>

### Canada

#### WHMIS hazard class:

- **D2B** Toxic materials

#### 2-Phenoxyethanol

- **D2B**

**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.

<table>
<thead>
<tr>
<th>Component</th>
<th>WHMIS Ingredient Disclosure List -</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Phenoxyethanol</td>
<td>1 %</td>
</tr>
</tbody>
</table>

### Inventory

<table>
<thead>
<tr>
<th>Component</th>
<th>Canada (DSL)</th>
<th>Canada (NDSL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Phenoxyethanol</td>
<td>Present</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>CEPA Schedule I - Toxic Substances</th>
<th>CEPA - 2010 Greenhouse Gases Subject to Manditory Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Phenoxyethanol</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

### EU Classification

#### R-phrase(s)

- **R22** - Harmful if swallowed.
- **R36** - Irritating to eyes.

#### S-phrase(s)

- **S2** - Keep out of the reach of children.
- **S26** - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Phenoxyethanol</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Product code:** P1077  
**Product name:** PHENOXYETHANOL, REAGENT
The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:
Xn - Harmful.
Xi - Irritant.

16. OTHER INFORMATION

The MSDS format complies with ANSI Z400.1/Z129.1-2010 standards.

Preparation Date: 15-Jul-2014
Reason for revision: Not applicable
Prepared by: Sonia Owen
Literature reference: No information available

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. The physical properties reported in this MSDS 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 MSDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.
SAFETY DATA SHEET

1. IDENTIFICATION

Product identifier
Product code: P1077
Product Name: PHENOXYETHANOL, REAGENT

Other means of identification
Synonyms: 1-Hydroxy-2-phenoxyethane
Arosol
beta-Hydroxyethyl phenyl ether
Dowanol EP
Dowanol EPH
Emeressence 1160
Emery 6705
Ethylene glycol monophenyl ether
Ethylene glycol phenyl ether
Glycol monophenyl ether
Phenoexthol
Phenoxetol
Phenoxyethanol
Phenoxyethyl alcohol
Phenoxytol
Phenyl cellosolve
Phenylmonoglycol ether
Rose ether

CAS #: 122-99-6
RTECS #: KM0350000
CI#: Not available

Recommended use of the chemical and restrictions on use
Recommended use: Fixative. Solvent.
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: Regina Wachenheim (East Coast)

2. HAZARDS IDENTIFICATION

Classification

Product code: P1077
Product name: PHENOXYETHANOL, REAGENT
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th>Acute toxicity - Oral</th>
<th>Category 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2A</td>
</tr>
</tbody>
</table>

**Label elements**

**Warning**

**Hazard statements**
Harmful if swallowed
Causes serious eye irritation

![Warning symbol]

**Hazards not otherwise classified (HNOC)**
Not Applicable

**Other hazards**
Not available

**Precautionary Statements - Prevention**
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Wear eye/face protection

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth

**Precautionary Statements - Disposal**
Dispose of contents/container to an approved waste disposal plant

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Phenoxyethanol</td>
<td>122-99-6</td>
<td>100</td>
<td>*</td>
</tr>
</tbody>
</table>

### 4. FIRST AID MEASURES

**First aid measures**

**General Advice:**
Poison information centres in each State capital city can provide additional assistance for scheduled poisons (13 1126). First aider needs to protect himself. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

**Product code:** P1077

**Product name:** PHENOXYETHANOL, REAGENT
4. FIRST AID MEASURES

**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops. If skin irritation persists, call a physician.

**Eye Contact:** Flush eye with water for 15 minutes. Get medical attention.

**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. Obtain medical attention.

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

**Symptoms**

**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:** Carbon dioxide (CO2). Dry chemical. Water spray mist or 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.

**Special Protective Actions for Firefighters**

**Specific Methods:** No information available.

**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. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Remove all sources of ignition.

**Environmental precautions**
Prevent further leakage or spillage if safe to do so.

**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).

**Product code:** P1077  **Product name:** PHENOXYETHANOL, REAGENT
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.

Incompatible Materials:
Oxidizing agents.

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>
</tr>
</thead>
<tbody>
<tr>
<td>2-Phenoxyethanol - 122-99-6</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Canada

Canada Occupational Exposure Limits: Not determined

<table>
<thead>
<tr>
<th>Components</th>
<th>Alberta</th>
<th>British Columbia</th>
<th>Ontario</th>
<th>Quebec</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Phenoxyethanol - 122-99-6</td>
<td>None</td>
<td>None</td>
<td>25 ppm TWA</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>141 mg/m³ TWA</td>
<td></td>
</tr>
</tbody>
</table>

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>2-Phenoxyethanol - 122-99-6</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.
Skin and body protection: Long sleeved clothing. Chemical resistant apron. Gloves.
Respiratory protection: Vapor respirator. Be sure to use an approved/certified respirator or equivalent. 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. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state:</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance:</td>
<td>Oily</td>
</tr>
<tr>
<td>Color:</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odor:</td>
<td>Slight. Aromatic</td>
</tr>
<tr>
<td>Taste</td>
<td>Strong. Burning</td>
</tr>
<tr>
<td>Formula:</td>
<td>C8-H10-O2</td>
</tr>
<tr>
<td>Molecular/Formula weight:</td>
<td>138.16</td>
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<tr>
<td>Flash point (°C):</td>
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<tr>
<td>Lower Explosion Limit (%):</td>
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<tr>
<td>Flashpoint (°C/°F):</td>
<td>110 ºC/230 ºF</td>
</tr>
<tr>
<td>Upper Explosion Limit (%):</td>
<td>9%</td>
</tr>
<tr>
<td>Boiling point/range(°C/°F):</td>
<td>245.2 ºC/473.4 ºF</td>
</tr>
<tr>
<td>Autoignition Temperature (°C/°F):</td>
<td>No information available</td>
</tr>
<tr>
<td>pH:</td>
<td>No information available</td>
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<tr>
<td>pH:</td>
<td>No information available</td>
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<tr>
<td>Melting point/range(°C/°F):</td>
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</tr>
<tr>
<td>Decomposition temperature(°C/°F):</td>
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</tr>
<tr>
<td>Specific gravity:</td>
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</tr>
<tr>
<td>Density (g/cm3):</td>
<td>No information available</td>
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<tr>
<td>Bulk density:</td>
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<td></td>
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<tr>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Odor threshold (ppm):</td>
<td>4.8</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water):</td>
<td>0.1</td>
</tr>
<tr>
<td>Evaporation rate:</td>
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</tr>
<tr>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Vapor density:</td>
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</tr>
<tr>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>VOC content (g/L):</td>
<td>No information available</td>
</tr>
<tr>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Viscosity:</td>
<td>No information available</td>
</tr>
<tr>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Miscibility:</td>
<td>Solubility:</td>
</tr>
<tr>
<td>No information available</td>
<td>Slightly soluble in water</td>
</tr>
<tr>
<td>10. STABILITY AND REACTIVITY</td>
<td></td>
</tr>
</tbody>
</table>

Reactivity
Reactive with oxidizing agents

Chemical stability
Stability: Stable at normal conditions

Product code: P1077
Product name: PHENOXYETHANOL, REAGENT
Possibility of Hazardous Reactions: Hazardous polymerization does not occur


Incompatible Materials: Oxidizing agents.

Hazardous decomposition products: Carbon monoxide. Carbon dioxide.

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

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Principal Routes of Exposure:
Skin. Eyes. Ingestion. Inhalation.

Acute Toxicity

Component Information

2-Phenoxyethanol - 122-99-6
LD50/oral/rat = 1260 mg/kg Oral LD50 Rat
LD50/oral/mouse = 933 mg/kg
LD50/dermal/rabbit = 5 mL/kg Dermal LD50 Rabbit
LD50/dermal/rat = 14422 mg/kg Dermal LD50 Rat
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50information = No information available

Product Information
LD50/oral/rat = VALUE- Acute Tox Oral = 1260mg/kg

LD50/oral/mouse = Value - Acute Tox Oral = 933mg/kg

LD50/dermal/rabbit
VALUE-Acute Tox Dermal = 5mL/kg

LD50/dermal/rat
VALUE -Acute Tox Dermal = 14422mg/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

Product code: P1077 Product name: PHENOXYETHANOL, REAGENT
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: May cause skin irritation. Mild skin irritation.

Eye Contact: Causes eye irritation. Moderate to severe eye irritation.

Inhalation May cause irritation of respiratory tract.

Ingestion Harmful if swallowed. May cause nausea vomiting, diarrhea, abdominal pain, lumbar pain. May affect behavior/central nervous system (central nervous system depression), urinary system (kidneys - polyuria, oliguria, anuria, acute renal failure).

Aspiration hazard No information available

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

Chronic Toxicity Prolonged or repeated ingestion may affect brain, liver, blood, urinary system, and behavior/central nervous system.

Sensitization: No information available

Mutagenic Effects: May affect genetic material

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>
</tr>
</thead>
<tbody>
<tr>
<td>2-Phenoxyethanol</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</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: No data available.

2-Phenoxyethanol - 122-99-6

Freshwater Algae Data: 500 mg/L EC50 Desmodesmus subspicatus 72 h

Freshwater Fish Species Data: 337 - 352 mg/L LC50 Pimephales promelas 96 h flow-through 1
366 mg/L LC50 Pimephales promelas 96 h static 1

Water Flea Data: 500 mg/L EC50 Daphnia magna 48 h
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>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Phenoxyethanol</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

DOT

UN-No: UN2525
Proper Shipping Name: Ethyl oxalate
Hazard Class: 6.1
Subsidiary Risk: Not applicable
Packing Group: None
Marine Pollutant: No data available
ERG No: 156
DOT RQ (lbs): No information available

TDG (Canada)

UN-No: UN2525
Proper Shipping Name: Ethyl oxalate
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: III
Description: No information available

ADR

UN-No: UN2525
Proper Shipping Name: Ethyl oxalate
Hazard Class: 6.1
Packing Group: III
Subsidiary Risk: No information available
Classification Code: No information available
Description: No information available
CEFIC Tremcard No: No information available

IMO / IMDG

UN-No: UN2525

Product code: P1077
Product name: PHENOXYETHANOL, REAGENT
14. TRANSPORT INFORMATION

Proper Shipping Name: Ethyl oxalate
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: III
Description: No information available
IMDG Page: No information available
Marine Pollutant: No information available
EMS: F-A
MFAG: No information available
Maximum Quantity: No information available

RID
UN-No: UN2525
Proper Shipping Name: Ethyl oxalate
Hazard Class: 6.1
Subsidiary Risk: 6.1
Packing Group: III
Classification Code: No information available
Description: No information available

ICAO
UN-No: UN2525
Proper Shipping Name: Ethyl oxalate
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: III
ERG Code: 6L
Description: No information available

IATA
UN-No: UN2525
Proper Shipping Name: Ethyl oxalate
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: III
Description: No information available

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Components</th>
<th>U.S. TSCA</th>
<th>KOREA KECL (PICCS)</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS (9)-1277 (7)-78 (3)-558</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Phenoxyethanol</td>
<td>Present</td>
<td>Present KE-28257</td>
<td>Present</td>
<td>Present</td>
<td>Present</td>
<td>Present</td>
<td>Present 204-589-7</td>
</tr>
</tbody>
</table>

U.S. Regulations


Chemicals Known to the State of California to Cause Cancer:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:
This product does not contain a chemical requiring a warning under California Prop. 65. (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>2-Phenoxyethanol</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>2-Phenoxyethanol</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

**U.S. TSCA**

<table>
<thead>
<tr>
<th>Components</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Phenoxyethanol</td>
<td>Not Applicable</td>
<td>07/01/1983 07/01/1993</td>
</tr>
</tbody>
</table>

**Canada**

**WHMIS hazard class:**
D2B  Toxic materials

2-Phenoxyethanol  
D2B

**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.

<table>
<thead>
<tr>
<th>Components</th>
<th>WHMIS Ingredient Disclosure List -</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Phenoxyethanol</td>
<td>1 %</td>
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</tbody>
</table>

**Inventory**

<table>
<thead>
<tr>
<th>Components</th>
<th>Canada (DSL)</th>
<th>Canada (NDSL)</th>
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</thead>
<tbody>
<tr>
<td>2-Phenoxyethanol</td>
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<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 Mandatory Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Phenoxyethanol</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

**EU Classification**

**R-phrase(s)**
R22 - Harmful if swallowed.
R36 - Irritating to eyes.

**S -phrase(s)**
S2 - Keep out of the reach of children.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

<table>
<thead>
<tr>
<th>Components</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Phenoxyethanol</td>
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</tr>
</tbody>
</table>

**Product code:** P1077  **Product name:** PHENOXYETHANOL, REAGENT
The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Indication of danger:**
Xn - Harmful.
Xi - Irritant.

---

## 16. OTHER INFORMATION
16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HMIS</th>
<th>Personal Protective Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
<td>![Safety Symbols]</td>
</tr>
</tbody>
</table>

**Health Hazard**: 2
**Fire Hazard**: 1
**Reactivity**: 0

**Preparation Date**: 7/15/2014
**Revision Date**: 7/15/2014
**Prepared by**: Sonia Owen

**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.

See Section 8.

**End of Material Safety Data Sheet**

Contact Distributor

www.qualityexcipients.com
info@qualityexcipients.com

**Contact Information**

**Product code**: P1077

**Product name**: PHENOXYETHANOL, REAGENT