Section 1: Chemical Product and Company Identification

Cat#: 02302
Part Name: ETHYLENE GLYCOL DIACRYLATE
Supplier: Polysciences, Inc.
400 Valley Road
Warrington, PA 18976 USA
MSDS Telephone #215-343-6484 Emergency only #215-378-4526

Identified uses: Laboratory use, manufacture of substances

Section 2: Hazards Identification

Hazard Overview
Causes skin, eye and respiratory tract irritation.
Combustible liquid and vapor.
May cause allergic skin reaction.
Toxic if swallowed.

GHS Classification

Acute Toxicity Oral Category 3
Flammable Liquids Category 4
Skin Sensitizer Category 1B

Signal word: Danger

Hazard and Precautionary Statements

H227 Combustible liquid
H301 Toxic if swallowed.
H312 Harmful in contact with skin.
H317 May cause an allergic skin reaction.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P280A Wear protective gloves
P285 In case of inadequate ventilation wear respiratory protection.
P301A IF SWALLOWED do not induce vomiting. Do not give anything to drink. Obtain medical attention without delay.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P305B IF IN EYES, Separate eyelids with finger tips.
P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P351 Rinse cautiously with water for several minutes.
P361 Remove/Take off immediately all contaminated clothing.

NFPA Rating
Hazard Ratings:
These ratings are Polysciences’ Inc. own assesments of the properties of the material using the ANSI/NFPA 704 Standard. Additional information can be found by consulting in the NFPA published ratings lists (List 325 and List 49).

If no data is listed the information is not available.

Health Flammability Reactivity
3 1 1

Section 3: Composition/ Information on Ingredients

Note: Items listed with a CASRN... number have no CAS# available.

<table>
<thead>
<tr>
<th>Item#</th>
<th>Name</th>
<th>EINECS</th>
<th>CAS#</th>
<th>% in product</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2-Propenoic acid, 1,2,-ethanediyl ester</td>
<td>218-886-4</td>
<td>0002274115</td>
<td>95-100</td>
</tr>
<tr>
<td>2</td>
<td>4-Methoxyphenol</td>
<td>205-769-8</td>
<td>0000150765</td>
<td>unknown</td>
</tr>
<tr>
<td>3</td>
<td>Ethylene glycol</td>
<td>203-473-3</td>
<td>0000107211</td>
<td>11 - 20</td>
</tr>
</tbody>
</table>

Section 4: First Aid Measures

Flush eyes with flowing water for at least 15 minutes.
If breathing is difficult, contact emergency personnel.
If swallowed, wash out mouth with water if person is conscious.
Remove contaminated clothing.
Remove to fresh air.
Separate eyelids with finger tips.
Wash skin with deluge of water for at least 15 minutes.

Section 5: Fire Fighting Measures

Flash point, deg F.: >235 F
Method: no data
UEL: no data
LEL: no data
Autoignition temperature, deg. F.: no data
Flammability Classification: IIIA
Flame Propagation Rate: no data
Hazardous Combustion Products: oxides of carbon

Section 6: Accidental Release Measures

Any information listed below is to be considered in addition to internal guidelines for isolation of spill, containment of spill, removal of ignition sources from immediate area, and collection for disposal of spill by trained, properly protected clean up personnel.
Absorb liquids on absorbent material.
Contain spilled liquids.
Protect personnel from exposure.
Use appropriate personal protective equipment.

Section 7: Handling and Storage

Store at 4 deg. C.

Section 8: Exposure Controls/ Personal Protection

OSHA (ACGIH) Exposure Limits

<table>
<thead>
<tr>
<th>CAS#</th>
<th>OSHA</th>
<th>ACGIH</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000107211</td>
<td>TWA</td>
<td>STEL</td>
</tr>
<tr>
<td></td>
<td>ppm</td>
<td>ppm</td>
</tr>
<tr>
<td></td>
<td>mg/m3</td>
<td>mg/m3</td>
</tr>
<tr>
<td>IDLH: --</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OSHA</td>
<td>Not classifi</td>
<td>--</td>
</tr>
<tr>
<td>ACGIH</td>
<td>--</td>
<td>--</td>
</tr>
<tr>
<td>0000150765</td>
<td>OSHA</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td>Not classifi</td>
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<td>5</td>
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<tr>
<td>0002274115</td>
<td>OSHA</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td></td>
<td>NE</td>
<td>NE</td>
</tr>
</tbody>
</table>

The use of eye protection in the form of safety glasses with side shields and the use of skin protection for hands in the form of gloves are considered minimum and non-discretionary in work places and laboratories. Any recommended personal protection equipment or environmental equipment is to be considered as additional to safety glasses and gloves.

Use chemical splash goggles and face shield.
Use latex or equivalent gloves.
Use process enclosures, local exhaust ventilation, or other engineering controls.
Section 9: Physical and Chemical Properties

Formula: C8H10O4  vapor pressure: no data
Formula Weight: 170.16  vapor density: no data
boiling point: 66 C  Specific gravity: 1.04
melting point: no data  ph: no data
solubility: partially soluble  appearance: liquid

Section 10: Stability and Reactivity

Chemical Stability: stable
Conditions to Avoid: heat
Incompatibility with other materials: strong acids, strong bases, strong oxidizing agents, peroxides
Hazardous Decomposition Products: oxides of carbon
Hazardous Polymerization: will not occur

Section 11: Toxicological Information

Acute Data: LD50 oral rat 300 mg/kg; LD50 skin rabbit 570 mL/kg
Subchronic data: severe skin irritant

Section 12: Ecological Information

no data

Section 13: Disposal Considerations

The following chart lists the status of the chemical and its components in reference to 40 CFR Part 261.33. If the product is listed by code number the substance may be subject to special federal and state disposal regulations. If no codes are listed the material must be disposed in compliance with all Federal, State and Local Regulations.

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Waste Code</th>
<th>Regulated Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000107211</td>
<td>not listed</td>
<td>not listed</td>
</tr>
<tr>
<td>0000150765</td>
<td>not listed</td>
<td>not listed</td>
</tr>
<tr>
<td>0002274115</td>
<td>not listed</td>
<td>not listed</td>
</tr>
</tbody>
</table>

Section 14: Transportation Data

Proper Shipping Name: Toxic liquids, organic, n.o.s.
Chemical Name: acrylic acid ethylene ester
UN: UN2810
Class: 6.1
PG: III

Section 15: Regulatory Information

All components of this product are on the TSCA public inventory.

All components of this product are on the TSCA public inventory.

Prop 65 - Column A identifies those items which are known to the State of California to cause cancer. Column B identifies items which are known to the State of California to cause reproductive toxicity.

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Column A</th>
<th>Column B</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000107211</td>
<td>Yes</td>
<td>no</td>
</tr>
<tr>
<td>0000150765</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>0002274115</td>
<td>no</td>
<td>no</td>
</tr>
</tbody>
</table>

State Regulatory Information: If a CAS# is listed below this material is subject to the listed state right-to-know requirements.

<table>
<thead>
<tr>
<th>CAS#</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000107211</td>
</tr>
<tr>
<td>0000150765</td>
</tr>
</tbody>
</table>
SARA Toxic Release Chemicals (as defined in Section 313 of SARA Title III)
This list identifies the toxic chemicals, including their de minimis concentrations for which reporting is required under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA). The list is also referred to as the Toxics Release Inventory (TRI) List.

### CAS# | Regulated name | de minimis conc. % | Rep. Thres. |
--- | --- | --- | --- |
0000107211 | Ethylene glycol | 1.0 | not listed |
0000150765 | not listed | not listed | not listed |
0002274115 | not listed | not listed | not listed |

SARA Extremely Hazardous Substances and TPQs
This list includes hazardous chemicals as defined in 29 CFR 1910.1200(c); and extremely hazardous substances regulated under Section 302 of SARA Title III with their TPQs (in pounds), as listed in 40 CFR 355, Appendices A and B.

### CAS# | Regulated name | TPQ (pounds) | EHS-RQ (pounds) |
--- | --- | --- | --- |
0000107211 | not listed | not listed | not listed |
0000150765 | not listed | not listed | not listed |
0002274115 | not listed | not listed | not listed |

CERCLA
The hazardous substances, and their reportable quantities (RQs) are listed in the federal regulations at 40 CFR Part 302, Table 302.4. Release of a CERCLA hazardous substance in an amount equal to or greater than its RQ, in any 24-hour period, must be reported to the National Response Center at (800) 424-8802.

### CAS# | Regulated name | RQ (pounds) |
--- | --- | --- |
0000107211 | Not listed | Not listed |
0000107211 | Ethylene glycol | 5,000 |
0000150765 | Not listed | Not listed |
0002274115 | Not listed | Not listed |

Section 16: Other Information

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END OF MSDS