### SECTION 1: Identification

1.1. **Identification**

<table>
<thead>
<tr>
<th>Product form</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>Smokescreen+ RC Clear</td>
</tr>
<tr>
<td>Product code</td>
<td>23077</td>
</tr>
</tbody>
</table>

1.2. **Recommended use and restrictions on use**

No additional information available

1.3. **Supplier**

Polymeric US  
117 E. 14th Ave  
North Kansas City, MO 64116  
800-746-5567

1.4. **Emergency telephone number**

Emergency number  
Chemtel - U.S., Canada, Puerto Rico, U.S. Virgin Islands 1-800-255-3924; International 813-248-0585

### SECTION 2: Hazard(s) identification

2.1. **Classification of the substance or mixture**

**GHS-US classification**

<table>
<thead>
<tr>
<th>Classification</th>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable liquids, Category 2</td>
<td>H225</td>
<td>Highly flammable liquid and vapour.</td>
</tr>
<tr>
<td>Skin corrosion/irritation, Category 2</td>
<td>H315</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation, Category 1</td>
<td>H318</td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td>Skin sensitisation, Category 1</td>
<td>H317</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>Carcinogenicity, Category 1A</td>
<td>H350</td>
<td>May cause cancer.</td>
</tr>
<tr>
<td>Reproductive toxicity, Category 2</td>
<td>H361</td>
<td>Suspected of damaging fertility or the unborn child.</td>
</tr>
<tr>
<td>Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation</td>
<td>H335</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td>Specific target organ toxicity — Repeated exposure, Category 2</td>
<td>H373</td>
<td>May cause damage to organs through prolonged or repeated exposure.</td>
</tr>
<tr>
<td>Hazardous to the aquatic environment — Acute Hazard, Category 2</td>
<td>H401</td>
<td>Toxic to aquatic life.</td>
</tr>
<tr>
<td>Hazardous to the aquatic environment — Chronic Hazard, Category 2</td>
<td>H411</td>
<td>Toxic to aquatic life with long lasting effects.</td>
</tr>
</tbody>
</table>

Full text of H statements : see section 16

2.2. **GHS Label elements, including precautionary statements**

**GHS US labelling**

**Hazard pictograms (GHS US)**

![Hazard pictograms](image)

**Signal word (GHS US)**

Danger

**Hazard statements (GHS US)**

- H225 - Highly flammable liquid and vapour.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H318 - Causes serious eye damage.
- H335 - May cause respiratory irritation.
H350 - May cause cancer.
H361 - Suspected of damaging fertility or the unborn child.
H373 - May cause damage to organs through prolonged or repeated exposure.
H401 - Toxic to aquatic life
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (GHS US):
P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P240 - Ground/Bond container and receiving equipment.
P241 - Use explosion-proof electrical/ventilating/lighting equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P261 - Avoidbreathing dust/fume/gas/mist/vapours/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing must not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 - If on skin: Wash with plenty of water/…
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P310 - Immediately call a poison center/doctor/…
P312 - Call a poison center/doctor/… if you feel unwell.
P314 - Get medical advice/attention if you feel unwell.
P321 - Specific treatment (see supplemental first aid instruction on this label)
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P363 - Wash contaminated clothing before reuse.
P365 - In case of fire: Use media other than water to extinguish.
P391 - Collect spillage.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification
No additional information available

2.4. Unknown acute toxicity (GHS US)
Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
</table>
| isobornyl acrylate            | (CAS-No.) 5888-33-5| 15 - 30 | Skin Irrit. 2, H315  
|                               |                    |     | Eye Irrit. 2, H319  
|                               |                    |     | Skin Sens. 1B, H317  
|                               |                    |     | Aquatic Acute 1, H400  
|                               |                    |     | Aquatic Chronic 1, H410  |
| 1-ethenyl-2-pyrrolidinone, inhibited | (CAS-No.) 88-12-0   | 15 - 30 | Acute Tox. 4 (Oral), H302  
|                               |                    |     | Acute Tox. 4 (Dermal), H312  
|                               |                    |     | Acute Tox. 4 (Inhalation), H332  
|                               |                    |     | Eye Dam. 1, H318  
|                               |                    |     | Carc. 2, H351  
|                               |                    |     | STOT SE 3, H335  
|                               |                    |     | STOT RE 2, H373  
|                               |                    |     | Aquatic Acute 3, H402  |
**SECTION 4: First-aid measures**

4.1. **Description of first aid measures**

First-aid measures general: IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.

First-aid measures after skin contact: Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion: Call a poison center or a doctor if you feel unwell.

4.2. **Most important symptoms and effects (acute and delayed)**

Symptoms/effects after inhalation: Cough. Irritation of the respiratory tract. May cause respiratory irritation. Slight irritation.

Symptoms/effects after skin contact: Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact: Causes serious eye irritation. Serious damage to eyes.

Symptoms/effects after ingestion: Irritation of the gastric/intestinal mucosa.

Chronic symptoms: Skin rash/inflammation.

4.3. **Immediate medical attention and special treatment, if necessary**

Treat symptomatically.

**SECTION 5: Fire-fighting measures**

5.1. **Suitable (and unsuitable) extinguishing media**


5.2. **Specific hazards arising from the chemical**

Fire hazard: Highly flammable liquid and vapour.

Reactivity: Highly flammable liquid and vapour.

5.3. **Special protective equipment and precautions for fire-fighters**

Firefighting instructions: Exercise caution when fighting any chemical fire. Fight fire with normal precautions from a reasonable distance.

Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

**SECTION 6: Accidental release measures**

6.1. **Personal precautions, protective equipment and emergency procedures**

6.1.1. **For non-emergency personnel**

Emergency procedures: No open flames, no sparks, and no smoking. Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapours/spray.

6.1.2. **For emergency responders**

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions
Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up
For containment:
Collect spillage.
Methods for cleaning up:
Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information:
Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections
For further information refer to section 13.

SECTION 7: Handling and storage
7.1. Precautions for safe handling
Precautions for safe handling:
Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

Hygiene measures:
Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities
Technical measures:
Ground/bond container and receiving equipment.
Storage conditions:
Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

SECTION 8: Exposure controls/personal protection
8.1. Control parameters

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Local name</th>
<th>ACGIH STEL (ppm)</th>
<th>ACGIH TWA (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>isobornyl acrylate (5888-33-5)</td>
<td>N-Vinyl-2-pyrrolidone</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Not applicable</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,6-hexanediol diacrylate (13048-33-4)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Not applicable</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-ethenyl-2-pyrrolidinone, inhibited (88-12-0)</td>
<td>N-Vinyl-2-pyrrolidone</td>
<td>0.05 ppm</td>
<td></td>
</tr>
<tr>
<td>ACGIH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remark (ACGIH)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACGIH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Regulatory reference</td>
<td></td>
<td></td>
<td>ACGIH 2018</td>
</tr>
<tr>
<td>2-hydroxy-2-methylpropiophenone (7473-98-5)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Not applicable</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>thfa (75980-60-8)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Not applicable</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ethanol (64-17-5)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACGIH</td>
<td></td>
<td>1000 ppm</td>
<td></td>
</tr>
<tr>
<td>ACGIH STEL (ppm)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8.2. Appropriate engineering controls
Appropriate engineering controls:
Ensure good ventilation of the work station.
Environmental exposure controls:
Avoid release to the environment.
8.3. Individual protection measures/Personal protective equipment

Materials for protective clothing:
nitrile rubber

Hand protection:
Protective gloves

Eye protection:
Safety glasses

Skin and body protection:
Wear suitable protective clothing

Respiratory protection:
[In case of inadequate ventilation] wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic 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>Colorless liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Colourless</td>
</tr>
<tr>
<td>Odour</td>
<td>No data available</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>(butylacetate=1)</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
</tbody>
</table>

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid
Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials
No additional information available

10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Substance</th>
<th>Acute toxicity (oral)</th>
<th>Acute toxicity (dermal)</th>
<th>Acute toxicity (inhalation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>isobornyl acrylate (5888-33-5)</td>
<td>Not classified</td>
<td>Not classified</td>
<td>Not classified</td>
</tr>
<tr>
<td>1-ethenyl-2-pyrrolidinone, inhibited (88-12-0)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50 oral rat</td>
<td>4350 mg/kg bodyweight (Rat, Male, Experimental value, Oral, 14 day(s))</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 3000 mg/kg bodyweight (Rabbit, Male, Experimental value, Skin, 14 day(s))</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>4350 mg/kg bodyweight</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-hydroxy-2-methylpropiophenone (7473-98-5)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>500 mg/kg bodyweight</td>
<td></td>
<td></td>
</tr>
<tr>
<td>thfa (75980-60-8)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 2000 mg/kg (Rat; Literature)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ethanol (64-17-5)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50 oral rat</td>
<td>10740 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 16000 mg/kg (Rabbit, Literature study, Dermal)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>117 - 125 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>10740 mg/kg bodyweight</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ATE US (vapours)</td>
<td>117 mg/l/4h</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ATE US (dust,mist)</td>
<td>117 mg/l/4h</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Causes skin irritation.
Serious eye damage/irritation: Causes serious eye damage.
Respiratory or skin sensitisation: May cause an allergic skin reaction.
Germ cell mutagenicity: Not classified
Carcinogenicity: May cause cancer.

1-ethenyl-2-pyrrolidinone, inhibited (88-12-0)
IARC group: Not classifiable

ethanol (64-17-5)
IARC group: Carcinogenic to humans

Reproductive toxicity: Suspected of damaging fertility or the unborn child.
STOT-single exposure: May cause respiratory irritation.
### 1-ethyl-2-pyrrolidinone, inhibited (88-12-0)

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>STOT-single exposure</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
<td>May cause damage to organs through prolonged or repeated exposure.</td>
</tr>
</tbody>
</table>

### 1-ethyl-2-pyrrolidinone, inhibited (88-12-0)

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>STOT-repeated exposure</td>
<td>May cause damage to organs through prolonged or repeated exposure.</td>
</tr>
</tbody>
</table>

- **Aspiration hazard**: Not classified
- **Viscosity, kinematic**: No data available
- **Symptoms/effects after inhalation**: Cough. Irritation of the respiratory tract. May cause respiratory irritation. Slight irritation.
- **Symptoms/effects after skin contact**: Irritation. May cause an allergic skin reaction.
- **Symptoms/effects after eye contact**: Causes serious eye irritation. Serious damage to eyes.
- **Symptoms/effects after ingestion**: Irritation of the gastric/intestinal mucosa.
- **Chronic symptoms**: Skin rash/inflammation.

### SECTION 12: Ecological information

#### 12.1. Toxicity

**Ecology - general**: Toxic to aquatic life with long lasting effects. Toxic to aquatic life.

**isobornyl acrylate (5888-33-5)**

| LC50 fish 1 | 0.704 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP) |
| ErC50 (algae) | 1.98 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) |

**1-ethyl-2-pyrrolidinone, inhibited (88-12-0)**

| LC50 fish 1 | 976 mg/l (OECD 203: Fish, Acute Toxicity Test, 72 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value) |
| EC50 Daphnia 1 | 45 mg/l (Equivalent or similar to OECD 202, 48 h, Daphnia sp., Static system, Fresh water, Experimental value) |
| ErC50 (algae) | > 1000 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value) |

**thfa (75980-60-8)**

| LC50 fish 1 | 1 - 10 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 48 h; Oryzias latipes) |
| EC50 Daphnia 1 | 10 - 100 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna) |
| Threshold limit algae 1 | > mg/l >10/100,EC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Algae |

**ethanol (64-17-5)**

| LC50 fish 1 | 14200 mg/l (US EPA, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value) |
| LC50 fish 2 | 13000 mg/l (LC50; 96 h; Salmo gairdneri; Static system; Fresh water) |

#### 12.2. Persistence and degradability

**isobornyl acrylate (5888-33-5)**

Persistence and degradability: Not readily biodegradable in water.

**1,6-hexanediol diacrylate (13048-33-4)**

Persistence and degradability: Inherently biodegradable.

**1-ethyl-2-pyrrolidinone, inhibited (88-12-0)**

Persistence and degradability: Readily biodegradable in water.

**Biochemical oxygen demand (BOD)**

< 0.002 g O₂/g substance

**Chemical oxygen demand (COD)**

1.894 g O₂/g substance

**2-hydroxy-2-methylpropiophenone (7473-98-5)**

Persistence and degradability: Not readily biodegradable in water.
thfa (75980-60-8)
Persistence and degradability
Not readily biodegradable in water. No (test)data on mobility of the substance available.

ethanol (64-17-5)
Persistence and degradability
Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD) 0.8 - 0.967 g O₂/g substance
Chemical oxygen demand (COD) 1.7 g O₂/g substance
ThOD 2.1 g O₂/g substance
BOD (% of ThOD) 0.43

12.3. Bioaccumulative potential

isobornyl acrylate (5888-33-5)
BCF fish 1 37 (OECD 305: Bioconcentration: Flow-Through Fish Test, 56 h, Danio rerio, Flow-through system, Fresh water, Read-across, GLP)
Log Pow 4.52 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)
Bioaccumulative potential Potential for bioaccumulation (4 ≥ Log Kow ≤ 5).

1,6-hexanediol diacrylate (13048-33-4)
Bioaccumulative potential No bioaccumulation data available.

1-ethenyl-2-pyrrolidinone, inhibited (88-12-0)
Log Pow 0.4 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 25 °C)
Bioaccumulative potential Low potential for bioaccumulation (Log Kow < 4).

2-hydroxy-2-methylpropophenone (7473-98-5)
Log Pow 1.66
Bioaccumulative potential Low potential for bioaccumulation (Log Kow < 4).

thfa (75980-60-8)
BCF fish 1 < 40 (BCF: OECD 305: Bioconcentration: Flow-Through Fish Test; Cyprinidae sp.)
Bioaccumulative potential Low potential for bioaccumulation (BCF < 500).

ethanol (64-17-5)
BCF fish 1 1 (Other, 72 h, Cyprinus carpio, Static system, Fresh water, Read-across)
Log Pow -0.31 (Experimental value)
Bioaccumulative potential Not bioaccumulative.

12.4. Mobility in soil

isobornyl acrylate (5888-33-5)
Ecology - soil No (test)data on mobility of the substance available.

1-ethenyl-2-pyrrolidinone, inhibited (88-12-0)
Log Koc 1.099 - 1.1497 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil Highly mobile in soil.

ethanol (64-17-5)
Surface tension 0.022 N/m (20 °C)
Ecology - soil Highly mobile in soil.

12.5. Other adverse effects
No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations : Avoid release to the environment. Discharging into rivers and drains is forbidden. Dispose in a safe manner in accordance with local/national regulations. Do not discharge into drains or the environment. Use appropriate containment to avoid environmental contamination.
**Additional information**

Clean up even minor leaks or spills if possible without unnecessary risk. Flammable vapours may accumulate in the container.

**Ecology - waste materials**

Avoid release to the environment.

### SECTION 14: Transport information

**Department of Transportation (DOT)**

In accordance with DOT

- **Transport document description**: UN3082 Environmentally hazardous substances, liquid, n.o.s., 9, III
- **UN-No.(DOT)**: UN3082
- **Proper Shipping Name (DOT)**: Environmentally hazardous substances, liquid, n.o.s.
- **Class (DOT)**: 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140
- **Packing group (DOT)**: III - Minor Danger
- **Hazard labels (DOT)**: 9 - Class 9 (Miscellaneous dangerous materials)

- **Dangerous for the environment**: Yes
- **Marine pollutant**: Yes

**DOT Packaging Non Bulk (49 CFR 173.xxx)**: 203

**DOT Packaging Bulk (49 CFR 173.xxx)**: 241

**DOT Symbols**: G - Identifies PSN requiring a technical name

**DOT Special Provisions (49 CFR 172.102)**: 8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for solid materials, special provision B54 applies.

146 - This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in 171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is designated as environmentally hazardous by the Competent Authority of the country of origin, transit or destination.

173 - An appropriate generic entry may be used for this material.

335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s." UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leakproof when used as bulk packaging.

IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).

T4 - 2.65 178.274(d)(2) Normal............. 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / (1 + a (tr - tf)) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

TP29 - A portable tank having a minimum test pressure of 1.5 bar (150.0 kPa) may be used provided the calculated test pressure is 1.5 bar or less based on the MAWP of the hazardous materials, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

**DOT Packaging Exceptions (49 CFR 173.xxx)**: 155

**DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)**: No limit

**DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)**: No limit
Smokescreen+ RC Clear
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DOT Vessel Stowage Location: A - The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel.

Emergency Response Guide (ERG) Number: 171

Other information: No supplementary information available.

Transportation of Dangerous Goods

Transport by sea

Transport document description (IMDG): UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III
UN-No. (IMDG): 3082
Proper Shipping Name (IMDG): ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Class (IMDG): 9 - Miscellaneous dangerous substances and articles
Packing group (IMDG): III - substances presenting low danger
Limited quantities (IMDG): 5 L
Marine pollutant: Yes

Air transport

Transport document description (IATA): UN 3082 Environmentally hazardous substance, liquid, n.o.s., 9, III
UN-No. (IATA): 3082
Proper Shipping Name (IATA): Environmentally hazardous substance, liquid, n.o.s.
Class (IATA): 9 - Miscellaneous Dangerous Goods
Packing group (IATA): III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

| Oligomer - not GHS Classified | CAS-No. | 30 - 50% |
| silicic, pyrogenic | CAS-No. 112945-52-5 | <= 2.875% |

thfa (75980-60-8)

EPA TSCA Regulatory Flag

PMN - PMN - indicates a commenced PMN substance.

15.2. International regulations

ethanol (64-17-5)

Listed on IARC (International Agency for Research on Cancer)

15.3. US State regulations

WARNING: This product can expose you to ethanol, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.
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<table>
<thead>
<tr>
<th>Component</th>
<th>State or local regulations</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-ethyl-2-pyrrolidinone, inhibited(88-12-0)</td>
<td>U.S. - New Jersey - Right to Know Hazardous Substance List</td>
</tr>
<tr>
<td>ethanol(64-17-5)</td>
<td>U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List</td>
</tr>
</tbody>
</table>

**SECTION 16: Other information**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 08/22/2018  
Other information: Polymeric urges the customer receiving this safety data sheet to study it carefully to become aware of the hazards, if any, in the product. In the interest of safety, the customer should (1) notify your employees, agents and contractors of the information included in this SDS and (2) furnish a copy to each of your employees, customers and agents. Polymeric US makes no warranty, express or implied, as to the accuracy or reliability of information contained herein, except that such information is, to the best of Polymeric US's knowledge and belief, accurate as of the date indicated on this document. Final determination of suitability of material is the sole responsibility of the user. All the materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Full text of H-statements:

<table>
<thead>
<tr>
<th>H225</th>
<th>Highly flammable liquid and vapour.</th>
</tr>
</thead>
<tbody>
<tr>
<td>H302</td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td>H312</td>
<td>Harmful in contact with skin.</td>
</tr>
<tr>
<td>H315</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>H317</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>H332</td>
<td>Harmful if inhaled.</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td>H350</td>
<td>May cause cancer.</td>
</tr>
<tr>
<td>H351</td>
<td>Suspected of causing cancer.</td>
</tr>
<tr>
<td>H361</td>
<td>Suspected of damaging fertility or the unborn child.</td>
</tr>
<tr>
<td>H373</td>
<td>May cause damage to organs through prolonged or repeated exposure.</td>
</tr>
<tr>
<td>H400</td>
<td>Very toxic to aquatic life.</td>
</tr>
<tr>
<td>H401</td>
<td>Toxic to aquatic life</td>
</tr>
<tr>
<td>H402</td>
<td>Harmful to aquatic life</td>
</tr>
<tr>
<td>H410</td>
<td>Very toxic to aquatic life with long lasting effects.</td>
</tr>
<tr>
<td>H411</td>
<td>Toxic to aquatic life with long lasting effects.</td>
</tr>
</tbody>
</table>

Hazard Rating  
Health: 1 Slight Hazard - Irritation or minor reversible injury possible  
Flammability: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)  
Physical: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.  
Personal protection: B  
B - Safety glasses, Gloves

SDS US - Polymeric US

04/15/2019 EN (English) 11/12
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