SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : Lightspeed
Product code : 23480, 23481, 23482, 23483

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>GHS classification</th>
<th>H315</th>
<th>H318</th>
<th>H317</th>
<th>H351</th>
<th>H361</th>
<th>H335</th>
<th>H373</th>
<th>H400</th>
<th>H410</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation, Category 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Serious eye damage/eye irritation, Category 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skin sensitisation, Category 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carcinogenicity, Category 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reproductive toxicity, Category 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specific target organ toxicity — Repeated exposure, Category 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hazardous to the aquatic environment — Acute Hazard, Category 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hazardous to the aquatic environment — Chronic Hazard, Category 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labelling

Signal word (GHS US) : Danger
Hazard statements (GHS US) :

- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H318 - Causes serious eye damage.
- H351 - May cause respiratory irritation.
- H361 - Suspected of causing cancer.
- H373 - Suspected of damaging fertility or the unborn child.
- H400 - Very toxic to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.
H410 - Very 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.
P260 - Do not breathe vapours, spray, mist.
P261 - Avoid breathing vapours, spray, mist, fume.
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.
P301+P352 - If on skin: Wash with plenty of water.
P302+P352 - If on skin: Wash with plenty of water.
P303+P365 - If on skin: Wash with plenty of water.
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, a doctor.
P311 - Call a POISON CENTER, a doctor if you feel unwell.
P312 - Call a POISON CENTER, a doctor 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.
P360 - Do not transfer to other containers.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P363 - Wash contaminated clothing before reuse.
P364 - Take off contaminated clothing and wash it before reuse.
P380 - Immediately call a POISON CENTER, a doctor.
P401 - Store locked up.
P405 - Store locked up.
P407 - Store in a well-ventilated place.
P408+P233 - Store in well-ventilated place. Keep container tightly closed.
P409 - Store in well-ventilated place. Keep container tightly closed.
P410 - Store in well-ventilated place. Keep container tightly closed.
P411 - Store in well-ventilated place.
P412 - Store in well-ventilated place.
P413 - Store in well-ventilated place.
P414 - Store in well-ventilated place.
P415 - Keep away from heat, sparks and all sources of ignition. Do not breathe vapours, spray, mist.
P416 - Keep away from heat, sparks and all sources of ignition.
P417 - Keep away from heat, sparks.
P418 - Keep away from heat, sparks.
P419 - Keep away from heat, sparks.
P420 - Keep away from heat, sparks.
P421 - Keep away from heat, sparks.
P422 - Keep away from heat.
P423 - Keep away from heat.
P424 - Keep away from heat.
P425 - Keep away from heat.
P426 - Keep away from heat.
P427 - Keep away from heat.
P428 - Keep away from heat.
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>
<tbody>
<tr>
<td>isobornyl acrylate</td>
<td>(CAS-No.) 5888-33-5</td>
<td>20 - 30</td>
<td>Skin Irrit. 2, H315, Eye Irrit. 2, H319, Skin Sens. 1B, H317, STOT SE 3, H335, Aquatic Acute 1, H400, Aquatic Chronic 1, H410</td>
</tr>
<tr>
<td>1-ethenyl-2-pyrrolidinone, inhibited</td>
<td>(CAS-No.) 88-12-0</td>
<td>17 - 25</td>
<td>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</td>
</tr>
<tr>
<td>Acrylated Resin</td>
<td>(CAS-No.) 28961-43-5</td>
<td>15 - 20</td>
<td>Skin Irrit. 2, H315, Eye Irrit. 2, H319, STOT SE 3, H335</td>
</tr>
<tr>
<td>thfa</td>
<td>(CAS-No.) 75980-60-8</td>
<td>4 - 12</td>
<td>Skin Sens. 1B, H317, Repr. 2, H361, Aquatic Acute 2, H401, Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td>trimethylolpropane triacrylate, stabilized (Note D)</td>
<td>(CAS-No.) 15625-89-5</td>
<td>0.39984 - 1.9992</td>
<td>Skin Irrit. 2, H315, Eye Irrit. 2, H319, Skin Sens. 1, H317</td>
</tr>
<tr>
<td>hydroxypropyl acrylate, mixed isomers (Note C)(Note D)</td>
<td>(CAS-No.) 25584-83-2</td>
<td>0.01 - 0.15</td>
<td>Acute Tox. 3 (Oral), H301, Acute Tox. 3 (Dermal), H311, Acute Tox. 3 (Inhalation), H331, Skin Corr. 1B, H314, Skin Sens. 1, H317</td>
</tr>
</tbody>
</table>
Name | Product identifier | % | GHS-US classification
--- | --- | --- | ---
1,6-hexanediol diacrylate (Note D) | (CAS-No.) 13048-33-4 | 0.009996 - 0.14994 | Skin Irrit. 2, H315  
Eye Irrit. 2, H319  
Skin Sens. 1, H317

Note C : Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Note D : Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'.

Full text of hazard classes and H-statements : see section 16

**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 : Wash skin with plenty of water. Take off 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 : May cause respiratory irritation.

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

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

**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**

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

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

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 : Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

**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.

**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: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.

Hygiene measures: 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

Storage conditions: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.


Incompatible materials: Direct sunlight. Heat sources.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Compound</th>
<th>Local name</th>
<th>ACGIH TWA (ppm)</th>
<th>Remark (ACGIH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-ethenyl-2-pyrrolidinone, inhibited (88-12-0)</td>
<td>N-Vinyl-2-pyrrolidone</td>
<td>0.05 ppm</td>
<td>TLV® Basis: Liver dam. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)</td>
</tr>
<tr>
<td>ACGIH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACGIH</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>ACGIH</td>
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<tr>
<td>ACGIH</td>
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<tr>
<td>ACGIH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACGIH</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Not applicable

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

Not applicable

**hydroxypropyl acrylate, mixed isomers (25584-83-2)**

<table>
<thead>
<tr>
<th>ACGIH</th>
<th>ACGIH TWA (ppm)</th>
<th>0.5 ppm</th>
</tr>
</thead>
</table>

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

Not applicable

**trimethylolpropane triacrylate, stabilized (15625-89-5)**

Not applicable

**Acrylated Resin (28961-43-5)**

Not applicable

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

**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>Liquid.</td>
</tr>
<tr>
<td>Colour</td>
<td>colors, varied</td>
</tr>
<tr>
<td>Odour</td>
<td>acrylate odor</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>&gt; 212 °F</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</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>
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<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>≈ 20 cP</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

The product is non-reactive under normal conditions of use, storage and transport.

#### 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

None under recommended storage and handling conditions (see section 7).

#### 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>Effect</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Acute toxicity (dermal)</td>
<td>Not classified</td>
</tr>
<tr>
<td>Acute toxicity (inhalation)</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>1022 mg/kg 834-1314,Rat; Equivalent or similar to OECD 401; Experimental value</td>
</tr>
<tr>
<td>LD50 dermal rat</td>
<td>1043 mg/kg rat</td>
</tr>
</tbody>
</table>
### 1-ethyl-2-pyrrolidinone, inhibited (88-12-0)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 400 mg/kg (BASF test, 24 h, Rabbit, Male / female, Experimental value, Dermal)</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>3.07 mg/l (BASF test, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol))</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>1022 mg/kg bodyweight</td>
</tr>
<tr>
<td>ATE US (dermal)</td>
<td>1043 mg/kg bodyweight</td>
</tr>
<tr>
<td>ATE US (vapours)</td>
<td>3.07 mg/l/4h</td>
</tr>
<tr>
<td>ATE US (dust,mist)</td>
<td>3.07 mg/l/4h</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>4350 mg/kg bodyweight (Rat, Male, Experimental value, Oral, 14 day(s))</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 3000 mg/kg bodyweight (Rabbit, Male, Experimental value, Skin, 14 day(s))</td>
</tr>
<tr>
<td>ATE US (oral)</td>
<td>4350 mg/kg bodyweight</td>
</tr>
</tbody>
</table>

### thfa (75980-60-8)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 2000 mg/kg (Rat; Literature)</td>
</tr>
</tbody>
</table>

### hydroxypropyl acrylate, mixed isomers (25584-83-2)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATE US (oral)</td>
<td>100 mg/kg bodyweight</td>
</tr>
<tr>
<td>ATE US (dermal)</td>
<td>300 mg/kg bodyweight</td>
</tr>
<tr>
<td>ATE US (vapours)</td>
<td>3 mg/l/4h</td>
</tr>
<tr>
<td>ATE US (dust,mist)</td>
<td>0.5 mg/l/4h</td>
</tr>
</tbody>
</table>

### Acrylated Resin (28961-43-5)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 5000 mg/kg (Rat, Oral)</td>
</tr>
</tbody>
</table>

### Skin corrosion/irritation
- Causes skin irritation.
- Causes serious eye damage.
- May cause an allergic skin reaction.
- Not classified
- Suspected of causing cancer.

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

- IARC group: 3 - Not classifiable
- Reproductive toxicity: Suspected of damaging fertility or the unborn child.
- STOT-single exposure: May cause respiratory irritation.

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

- STOT-single exposure: May cause respiratory irritation.

### Acrylated Resin (28961-43-5)

- STOT-single exposure: May cause respiratory irritation.
- STOT-repeated exposure: May cause damage to organs through prolonged or repeated exposure.

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

- STOT-repeated exposure: May cause damage to organs through prolonged or repeated exposure.

### Aspiration hazard
- Not classified

### Viscosity, kinematic
- No data available

### Symptoms/effects after inhalation
- May cause respiratory irritation.

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

### Symptoms/effects after eye contact
- Serious damage to eyes.

### SECTION 12: Ecological information

#### 12.1 Toxicity
- Ecology - general: Very toxic to aquatic life with long lasting effects.
### 1-ethyl-2-pyrrolidinone, inhibited (88-12-0)

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish</td>
<td>976 mg/l (OECD 203: Fish, Acute Toxicity Test, 72 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value)</td>
</tr>
<tr>
<td>EC50 Daphnia</td>
<td>45 mg/l (Equivalent or similar to OECD 202, 48 h, Daphnia sp., Static system, Fresh water, Experimental value)</td>
</tr>
<tr>
<td>ErC50 (algae)</td>
<td>&gt; 1000 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish</td>
<td>0.704 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, GLP)</td>
</tr>
<tr>
<td>ErC50 (algae)</td>
<td>1.98 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP)</td>
</tr>
</tbody>
</table>

### thfa (75980-60-8)

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish</td>
<td>1 - 10 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 48 h; Oryzias latipes)</td>
</tr>
<tr>
<td>Threshold limit algae</td>
<td>&gt; mg/l &gt;10/100,EC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Algae</td>
</tr>
</tbody>
</table>

### hydroxypropyl acrylate, mixed isomers (25584-83-2)

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish</td>
<td>10 - 22 mg/l (96 h, Leuciscus idus)</td>
</tr>
</tbody>
</table>

### 12.2. Persistence and degradability

#### 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

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

- **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.

#### hydroxypropyl acrylate, mixed isomers (25584-83-2)

- **Persistence and degradability**: Inherently biodegradable.

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

- **Persistence and degradability**: Inherently biodegradable.

### trimethylolpropane triacrylate, stabilized (15625-89-5)

- **Persistence and degradability**: Biodegradability in water: no data available.
- **ThOD**: 1.835 g O₂/g substance

### 12.3. Bioaccumulative potential

#### 1-ethyl-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).

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

- **BCF fish**: 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).

#### thfa (75980-60-8)

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

#### hydroxypropyl acrylate, mixed isomers (25584-83-2)

- **Bioaccumulative potential**: No bioaccumulation data available.
1.6-hexanediol diacrylate (13048-33-4)

Bioaccumulative potential
No bioaccumulation data available.

trimethylolpropane triacrylate, stabilized (15625-89-5)

Bioaccumulative potential
No bioaccumulation data available.

Acrylated Resin (28961-43-5)

Bioaccumulative potential
No test data of component(s) available.

12.4. Mobility in soil

1-ethyl-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.

isobornyl acrylate (5888-33-5)

Ecology - soil
No (test)data on mobility of the substance available.

Acrylated Resin (28961-43-5)

Ecology - soil
No (test)data on mobility of the components available.

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.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description: UN3082 Environmentally hazardous substances, liquid, n.o.s. (Isobornyl Acrylate), 9, III

UN-No.(DOT): UN3082

Proper Shipping Name (DOT): Environmentally hazardous substances, liquid, n.o.s.

Isobornyl Acrylate

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

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.

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
DOT Vessel Stowage Location : A - The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel.

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:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No. 75081-21-9</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>isopropylthioxanthone</td>
<td></td>
<td>1 - 5%</td>
</tr>
</tbody>
</table>

thfa (75980-60-8)

EPA TSCA Regulatory Flag: PMN - PMN - indicates a commenced PMN substance.

tricyclodecane dimethanol diacrylate, stabilized (42594-17-2)

EPA TSCA Regulatory Flag: P - P - indicates a commenced Premanufacture Notice (PMN) substance.

Acrylated Resin (28961-43-5)

EPA TSCA Regulatory Flag: XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

15.2. International regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

<table>
<thead>
<tr>
<th>Component</th>
<th>State or local regulations</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-ethenyl-2-pyrrolidinone, inhibited(88-12-0)</td>
<td>U.S. - New Jersey - Right to Know Hazardous Substance List</td>
</tr>
</tbody>
</table>

SECTION 16: 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.
Full text of H-statements:

<table>
<thead>
<tr>
<th>H301</th>
<th>Toxic if swallowed.</th>
</tr>
</thead>
<tbody>
<tr>
<td>H302</td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td>H311</td>
<td>Toxic in contact with skin.</td>
</tr>
<tr>
<td>H312</td>
<td>Harmful in contact with skin.</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage.</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>H331</td>
<td>Toxic if inhaled.</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>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>

SDS US - Polymeric US

*Polymeric US 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.*