### SECTION 1: Identification

#### 1.1 Identification

- **Product form**: Mixture
- **Product name**: Ultrabond WR
- **Product code**: WR Series

#### 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>Hazard</th>
<th>Code</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>Serious eye damage/eye irritation, Category 2</td>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>Skin sensitisation, Category 1</td>
<td>H317</td>
<td>May cause an allergic skin reaction.</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>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)**: ![Flammable Liquid](image), ![Invisible](image), ![Biological Hazard](image), ![Aquatic Hazard](image)

**Signal word (GHS US)**: Danger

**Hazard statements (GHS US)**:

- H225 - Highly flammable liquid and vapour.
- H317 - May cause an allergic skin reaction.
- H319 - Causes serious eye irritation.
- H361 - Suspected of damaging fertility or the unborn child.
- 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.
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P261 - Avoid breathing vapours, spray, mist.
P264 - Wash hands, forearms and face thoroughly after handling.
P272 - Contaminated work clothing must not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, eye 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.
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.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P363 - Wash contaminated clothing before reuse.
P370+P378 - In case of fire: Use media other than water to extinguish.
P391 - Collect spillage.
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>
<tbody>
<tr>
<td>2-phenoxethyl acrylate</td>
<td>(CAS-No.) 48145-04-6</td>
<td>15 - 30</td>
<td>Skin Sens. 1B, H317, Acute Chronic 2, H411</td>
</tr>
<tr>
<td>vinylcaprolactam</td>
<td>(CAS-No.) 2235-00-9</td>
<td>12.6 - 14</td>
<td>Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H319</td>
</tr>
<tr>
<td>thfa</td>
<td>(CAS-No.) 75980-60-8</td>
<td>0.5 - 5</td>
<td>Skin Sens. 1B, H317, Acute Chronic 2, H411</td>
</tr>
<tr>
<td>hydroxypropyl acrylate, mixed isomers</td>
<td>(CAS-No.) 25584-83-2</td>
<td>0.2 - 0.6</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>
<tr>
<td>1,6-hexanediol diacrylate</td>
<td>(CAS-No.) 13048-33-4</td>
<td>0.19992 - 0.59976</td>
<td>Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317</td>
</tr>
<tr>
<td>epoxy resins, liquids, MM's700</td>
<td>(CAS-No.) 25068-38-6</td>
<td>0 - 0.1</td>
<td>Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 2, H401 Aquatic Chronic 2, H411</td>
</tr>
</tbody>
</table>

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.
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. If eye irritation persists: Get medical advice/attention.

**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 skin contact:** May cause an allergic skin reaction.
- **Symptoms/effects after eye contact:** Eye irritation.

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

Treat symptomatically.

**SECTION 5: Fire-fighting measures**

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

- **Suitable extinguishing media:** Water spray. Dry powder. Foam. Carbon dioxide.

**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**

- **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. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Avoid breathing 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.

**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. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

- **Hygiene measures:** Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. 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**

04/15/2019 EN (English) 3/10
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>No data available</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>
</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>
</tbody>
</table>
Viscosity, dynamic: No data available
Explosive limits: No data available
Explosive properties: No data available
Oxidising properties: No data available

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
Acute toxicity (oral): Not classified
Acute toxicity (dermal): Not classified
Acute toxicity (inhalation): Not classified

vinylcaprolactam (2235-00-9)
LD50 oral rat 1114 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit > 400 mg/kg (Rabbit, Dermal)
ATE US (oral) 1114 mg/kg bodyweight

hydroxypropyl acrylate, mixed isomers (25584-83-2)
ATE US (oral) 100 mg/kg bodyweight
ATE US (dermal) 300 mg/kg bodyweight
ATE US (vapours) 3 mg/l/4h
ATE US (dust,mist) 0.5 mg/l/4h

epoxy resins, liquids, MM≤700 (25068-38-6)
LD50 oral rat > 2000 mg/kg (OECD 420: Acute Oral toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral, 14 day(s))
LD50 dermal rat > 2000 mg/kg (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal)

thfa (75980-60-8)
LD50 oral rat > 2000 mg/kg (Rat; Literature)

2-phenoxyethyl acrylate (48145-04-6)
LD50 oral rat > 5000 mg/kg (OECD 401: Acute Oral Toxicity, Rat, Female, Experimental value, Oral, 14 day(s))

Skin corrosion/irritation: Not classified
Serious eye damage/irritation: Causes serious eye irritation.
Respiratory or skin sensitisation: May cause an allergic skin reaction.
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified
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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Reproductive toxicity: Suspected of damaging fertility or the unborn child.

STOT-single exposure: Not classified

STOT-repeated exposure: Not classified

Aspiration hazard: Not classified

Viscosity, kinematic: No data available

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

Symptoms/effects after eye contact: Eye irritation.

### SECTION 12: Ecological information

#### 12.1. Toxicity

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>LC50/fish 1 mg/l</th>
<th>EC50/Daphnia 1 mg/l</th>
<th>ErC50 (algae) mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>hydroxypropyl acrylate, mixed isomers (25584-83-2)</td>
<td>10 - 22 mg/l (96 h, Leuciscus idus)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>epoxy resins, liquids, MM≤700 (25068-38-6)</td>
<td>2.3 mg/l (OECD 203; Fish, Acute Toxicity Test; 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, Nominal concentration)</td>
<td>1.1 - 2.8 mg/l (Equivalent or similar to OECD 202, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)</td>
<td>&gt; 11 mg/l (EPA 660/3 - 75/009, 72 h, Scenedesmus sp., Static system, Fresh water, Experimental value)</td>
</tr>
<tr>
<td>thfa (75980-60-8)</td>
<td>1 - 10 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 48 h: Oryzias latipes)</td>
<td>10 - 100 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna)</td>
<td></td>
</tr>
<tr>
<td>2-phenoxyethyl acrylate (48145-04-6)</td>
<td>10 mg/l (Equivalent or similar to OECD 203, 96 h, Leuciscus idus, Static system, Fresh water, Experimental value, Lethal)</td>
<td>1.21 mg/l (Equivalent or similar to OECD 202, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)</td>
<td>10 (≥ 0) mg/l</td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Substance</th>
<th>Persistence and degradability</th>
</tr>
</thead>
<tbody>
<tr>
<td>vinylcaprolactam (2235-00-9)</td>
<td>Biodegradability in soil: no data available. Biodegradable in water.</td>
</tr>
<tr>
<td>hydroxypropyl acrylate, mixed isomers (25584-83-2)</td>
<td>Inherently biodegradable.</td>
</tr>
<tr>
<td>1,6-hexanediol diacrylate (13048-33-4)</td>
<td>Inherently biodegradable.</td>
</tr>
<tr>
<td>epoxy resins, liquids, MM≤700 (25068-38-6)</td>
<td>Not readily biodegradable in water.</td>
</tr>
<tr>
<td>thfa (75980-60-8)</td>
<td>Not readily biodegradable in water. No (test)data on mobility of the substance available.</td>
</tr>
<tr>
<td>2-phenoxyethyl acrylate (48145-04-6)</td>
<td>Not readily biodegradable in water.</td>
</tr>
</tbody>
</table>

#### 12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Substance</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>vinylcaprolactam (2235-00-9)</td>
<td>No bioaccumulation data available.</td>
</tr>
<tr>
<td>hydroxypropyl acrylate, mixed isomers (25584-83-2)</td>
<td>No bioaccumulation data available.</td>
</tr>
</tbody>
</table>
1,6-hexanediol diacrylate (13048-33-4)

Bioaccumulative potential: No bioaccumulation data available.

**epoxy resins, liquids, MM≤700 (25068-38-6)**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCF other aquatic organisms 1</td>
<td>31 (Estimated value, Fresh weight)</td>
</tr>
<tr>
<td>Log Pow</td>
<td>2.64 - 3.78 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>Low potential for bioaccumulation (Log Kow &lt; 4).</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCF fish 1</td>
<td>&lt; 40 (BCF; OECD 305: Bioconcentration: Flow-Through Fish Test; Cyprinidae sp.)</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>Low potential for bioaccumulation (BCF &lt; 500).</td>
</tr>
</tbody>
</table>

**2-phenoxyethyl acrylate (48145-04-6)**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Pow</td>
<td>2.58 (room temperature, Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>Low potential for bioaccumulation (Log Kow &lt; 4).</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil

**epoxy resins, liquids, MM≤700 (25068-38-6)**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface tension</td>
<td>58.7 - 58.9 mN/m (20 °C, EU Method A.5: Surface tension)</td>
</tr>
<tr>
<td>Log Koc</td>
<td>2.65 (log Koc, SRC PCKOCWIN v2.0, QSAR)</td>
</tr>
<tr>
<td>Ecology - soil</td>
<td>Low potential for adsorption in soil.</td>
</tr>
</tbody>
</table>

**2-phenoxyethyl acrylate (48145-04-6)**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface tension</td>
<td>53.6 mN/m (23 °C, Experimental value, 472.5 mg/l, OECD 115: Surface Tension of Aqueous Solutions)</td>
</tr>
<tr>
<td>Ecology - soil</td>
<td>No (test)data on mobility of the substance available.</td>
</tr>
</tbody>
</table>

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.

Additional information: Flammable vapours may accumulate in the container.

**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
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

Not applicable

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

| 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>Chemical</th>
<th>CAS-No.</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>isopropylthioxanthone</td>
<td>75081-21-9</td>
<td>0.5 - 10%</td>
</tr>
<tr>
<td>Oligomer, not GHS Classified</td>
<td></td>
<td>10 - 30%</td>
</tr>
</tbody>
</table>

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS-No.</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-phenoxyethyl acrylate</td>
<td>48145-04-6</td>
<td>10 - 30%</td>
</tr>
</tbody>
</table>

- **epoxy resins, liquids, MMS700 (25068-38-6)**
  - EPA TSCA Regulatory Flag: XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

- **thfa (75980-60-8)**
  - EPA TSCA Regulatory Flag: PMN - PMN - indicates a commenced PMN substance.

- **2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone (119313-12-1)**
  - EPA TSCA Regulatory Flag: PMN - PMN - indicates a commenced PMN substance.

### 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

## SECTION 16: Other information
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.

Full text of H-statements:

<table>
<thead>
<tr>
<th>H225</th>
<th>Highly flammable liquid and vapour.</th>
</tr>
</thead>
<tbody>
<tr>
<td>H301</td>
<td>Toxic if swallowed.</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed.</td>
</tr>
<tr>
<td>H311</td>
<td>Toxic 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>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>H331</td>
<td>Toxic if inhaled.</td>
</tr>
<tr>
<td>H361</td>
<td>Suspected of damaging fertility or the unborn child.</td>
</tr>
<tr>
<td>H401</td>
<td>Toxic to aquatic life</td>
</tr>
<tr>
<td>H411</td>
<td>Toxic to aquatic life with long lasting effects.</td>
</tr>
</tbody>
</table>

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