### 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>Long Term Decal Series</td>
</tr>
<tr>
<td>Product code</td>
<td>LTD</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>Hazard</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable liquids, Category 2</td>
<td>H225 - Highly flammable liquid and vapour.</td>
</tr>
<tr>
<td>Skin corrosion/irritation, Category 2</td>
<td>H315 - Causes skin irritation.</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation, Category 1</td>
<td>H318 - Causes serious eye damage.</td>
</tr>
<tr>
<td>Skin sensitisation, Category 1</td>
<td>H317 - May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>Hazardous to the aquatic environment — Acute Hazard, Category 2</td>
<td>H401 - Toxic to aquatic life</td>
</tr>
<tr>
<td>Hazardous to the aquatic environment — Chronic Hazard, Category 2</td>
<td>H411 - 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):**

- **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.  
  - H401 - Toxic to aquatic life  
  - H411 - Toxic to aquatic life with long lasting effects.

- **Precautionary statements (GHS US):**
  - 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.  
  - P261 - Avoid breathing vapours.  
  - P264 - Wash hands, forearms and face, clothing 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.
P305+P361+P353 - IF ON SKIN (OR HAIR): TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH PLENTY OF WATER
P310 - Immediately call a poison center/doctor/…
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.
P360-364 - Take off contaminated clothing and wash it before reuse.
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.
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-phenoxyethyl acrylate</td>
<td>(CAS-No.) 48145-04-6</td>
<td>30 - 50</td>
<td>Skin Sens. 1B, H317 Aquatic Acute 2, H401 Aquatic Chronic 2, H411</td>
</tr>
<tr>
<td>isobornyl acrylate</td>
<td>(CAS-No.) 5888-33-5</td>
<td>5 - 15</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>vinylcaprolactam</td>
<td>(CAS-No.) 2235-00-9</td>
<td>9 - 10</td>
<td>Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319</td>
</tr>
<tr>
<td>MDEA</td>
<td>(CAS-No.) 105-59-9</td>
<td>0.5 - 5</td>
<td>Skin Corr. 1, H314</td>
</tr>
</tbody>
</table>

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: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation 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.
Symptoms/preferences after eye contact: 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
Reactivity: The product is non-reactive under normal conditions of use, storage and transport.

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: Ventilate spillage area. 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
Methods for cleaning up: Take up liquid spill into absorbent material.
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. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures: 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
Storage conditions: Store in a well-ventilated place. Keep cool.
Incompatible materials: Direct sunlight. Heat sources. Sources of ignition.
Heat and ignition sources: heat sources. Ignition sources.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Control parameters</th>
</tr>
</thead>
<tbody>
<tr>
<td>isobornyl acrylate (5888-33-5)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>vinylcaprolactam (2235-00-9)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>MDEA (105-59-9)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>2-phenoxyethyl acrylate (48145-04-6)</td>
<td>Not applicable</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

Hand protection:
Protective gloves

Eye protection:
Safety glasses

Skin and body protection:
Wear suitable protective clothing

Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: No data available
Odour: No data available
Odour threshold: No data available
\( \text{pH} \): No data available
Melting point: Not applicable
Freezing point: No data available
Boiling point: No data available
Flash point: No data available
Relative evaporation rate (butylacetate=1): No data available
Flammability (solid, gas): Not applicable.
Vapour pressure: No data available
Relative vapour density at 20 °C: No data available
Relative density: No data available
Solubility: No data available
Log Pow: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity, kinematic: No data available
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
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>Compound</th>
<th>Acute toxicity (oral)</th>
<th>Acute toxicity (dermal)</th>
<th>Acute toxicity (inhalation)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>isobornyl acrylate (5888-33-5)</strong></td>
<td>Not classified</td>
<td>Not classified</td>
<td>Not classified</td>
</tr>
<tr>
<td><strong>LD50 oral rat</strong></td>
<td>4350 mg/kg bodyweight (Rat, Male, Experimental value, Oral, 14 day(s))</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>LD50 dermal rabbit</strong></td>
<td>&gt; 3000 mg/kg bodyweight (Rabbit, Male, Experimental value, Skin, 14 day(s))</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>ATE US (oral)</strong></td>
<td>4350 mg/kg bodyweight</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>vinylcaprolactam (2235-00-9)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>LD50 oral rat</strong></td>
<td>1114 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>LD50 dermal rabbit</strong></td>
<td>&gt; 400 mg/kg (Rabbit, Dermal)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>ATE US (oral)</strong></td>
<td>1114 mg/kg bodyweight</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MDEA (105-59-9)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>LD50 oral rat</strong></td>
<td>4680 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>LD50 dermal rabbit</strong></td>
<td>&gt; 2000 mg/kg bodyweight (Equivalent or similar to OECD 402, Rabbit, Male / female, Experimental value, Dermal)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>ATE US (oral)</strong></td>
<td>4680 mg/kg bodyweight</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>2-phenoxyethyl acrylate (48145-04-6)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>LD50 oral rat</strong></td>
<td>&gt; 5000 mg/kg (OECD 401: Acute Oral Toxicity, Rat, Female, Experimental value, Oral, 14 day(s))</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Symptom/Effect</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>STOT single exposure</td>
<td>Not classified</td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

#### 12.1. Toxicity

- **Ecology - general**: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
### 12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Substance</th>
<th>LC50 fish 1</th>
<th>EC50 Daphnia 1</th>
<th>ErC50 (algae)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>isobornyl acrylate (5888-33-5)</strong></td>
<td>0.704 mg/l</td>
<td>1.98 mg/l</td>
<td></td>
</tr>
<tr>
<td><strong>MDEA (105-59-9)</strong></td>
<td>1466 mg/l</td>
<td>233 mg/l</td>
<td>10 (≥ 0) mg/l</td>
</tr>
<tr>
<td><strong>2-phenoxyethyl acrylate (48145-04-6)</strong></td>
<td>10 mg/l</td>
<td>1.21 mg/l</td>
<td></td>
</tr>
</tbody>
</table>

### 12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Substance</th>
<th>BCF fish 1</th>
<th>Log Pow</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>isobornyl acrylate (5888-33-5)</strong></td>
<td>37 (OECD 305: Bioconcentration: Flow-Through Fish Test, 56 h, Danio rerio, Flow-through system, Fresh water, Read-across, GLP)</td>
<td>4.52 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method)</td>
<td>Potential for bioaccumulation (4 ≥ Log Kow ≤ 5).</td>
</tr>
<tr>
<td><strong>vinylcaprolactam (2235-00-9)</strong></td>
<td>-1.08 (Experimental value, BASF test, 25 °C)</td>
<td></td>
<td>Not bioaccumulative.</td>
</tr>
<tr>
<td><strong>MDEA (105-59-9)</strong></td>
<td>-1.08 (log Koc, SRC PCKOCWIN v1.66, Calculated value)</td>
<td></td>
<td>Low potential for adsorption in soil.</td>
</tr>
</tbody>
</table>

### 12.4. Mobility in soil

<table>
<thead>
<tr>
<th>Substance</th>
<th>Surface tension</th>
<th>Ecology - soil</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>isobornyl acrylate (5888-33-5)</strong></td>
<td>53.6 mN/m (23 °C, Experimental value, 472.5 mg/l, OECD 115: Surface Tension of Aqueous Solutions)</td>
<td>No (test)data on mobility of the substance available.</td>
</tr>
<tr>
<td><strong>MDEA (105-59-9)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>2-phenoxyethyl acrylate (48145-04-6)</strong></td>
<td></td>
<td></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.

Sewage disposal recommendations: Keep out of sewers.

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 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

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>Chemical</th>
<th>CAS-No.</th>
<th>Percentage</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>CAS-No.</td>
<td>30 - 50%</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.

2-phenoxyethyl acrylate : CAS-No. 48145-04-6 30 - 50%

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

Revision date : 10/29/2018

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.

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>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>H335</td>
<td>May cause respiratory irritation.</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>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>

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.