SAFETY DATA SHEET

1. Identification

Material name: Tremco PUMA TC Decorative - 6 GAL
Material: 470900 805

Recommended use and restriction on use
Recommended use: Coatings
Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information
Tremco U.S Sealants
3735 Green Road
Beachwood OH 44122
US

Contact person: EH&S Department
Telephone: 216-292-5000
Emergency telephone number: 1-800-424-9300 (US); 1-613-996-6666 (Canada)

2. Hazard(s) identification

Hazard Classification

Physical Hazards
Flammable liquids Category 2

Health Hazards
Acute toxicity (Oral) Category 4
Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Irritation Category 2A
Skin sensitizer Category 1

Unknown toxicity - Health
Acute toxicity, oral 30 %
Acute toxicity, dermal 30 %
Acute toxicity, inhalation, vapor 44.2 %
Acute toxicity, inhalation, dust or mist 99.3 %

Label Elements

Hazard Symbol:
Signal Word: Danger

Hazard Statement: Highly flammable liquid and vapor. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.

Precautionary Statements

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof [electrical/ventilating/lighting/] equipment. Use non-sparking tools. Take action to prevent static discharges. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace.

Response: IF IN EYES: 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. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. If skin irritation or rash occurs: Get medical advice/attention. IF SWALLOWED: Call a POISON CENTRE/doctor/ if you feel unwell. Rinse mouth. Specific treatment (see this label). Wash contaminated clothing before reuse. In case of fire: Use G for extinction.

Storage: Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC): Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS number</th>
<th>Content in percent (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl methacrylate</td>
<td>80-62-6</td>
<td>50 - &lt;100%</td>
</tr>
<tr>
<td>2-Propenoic acid, 2-ethylhexyl ester</td>
<td>103-11-7</td>
<td>10 - &lt;20%</td>
</tr>
<tr>
<td>1,4-Butanediol Dimethyacrylate</td>
<td>2082-81-7</td>
<td>1 - &lt;5%</td>
</tr>
<tr>
<td>Dihydroxypropyl para-toluidine</td>
<td>38668-48-3</td>
<td>1 - &lt;5%</td>
</tr>
</tbody>
</table>

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.
4. First-aid measures

**Ingestion:** Call a POISON CENTRE/doctor/ if you feel unwell. Rinse mouth.

**Inhalation:** Move to fresh air.

**Skin Contact:** Take off immediately all contaminated clothing. Get medical attention. Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention.

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

**Most important symptoms/effects, acute and delayed**

**Symptoms:** Respiratory tract irritation. Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping.

**Indication of immediate medical attention and special treatment needed**

**Treatment:** Symptoms may be delayed.

5. Fire-fighting measures

**General Fire Hazards:** Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

**Suitable (and unsuitable) extinguishing media**

- **Suitable extinguishing media:** Use fire-extinguishing media appropriate for surrounding materials.

- **Unsuitable extinguishing media:** Avoid water in straight hose stream; will scatter and spread fire.

**Specific hazards arising from the chemical:** Vapors may travel considerable distance to a source of ignition and flash back. Vapors may cause a flash fire or ignite explosively. Prevent buildup of vapors or gases to explosive concentrations.

**Special protective equipment and precautions for firefighters**

- **Special fire fighting procedures:** No data available.

- **Special protective equipment for fire-fighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures
Personal precautions, protective equipment and emergency procedures:
Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning up:
Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

Notification Procedures:
In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Environmental Precautions:
Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe handling:
Do not taste or swallow. Wash hands thoroughly after handling. Avoid contact with eyes. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Take precautionary measures against static discharges. Avoid contact with skin. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities:
Store in a well-ventilated place. Store in a cool place.

8. Exposure controls/personal protection

Control Parameters

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Type</th>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl methacrylate</td>
<td>TWA</td>
<td>50 ppm</td>
<td>US. ACGIH Threshold Limit Values (2011)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>100 ppm</td>
<td>US. ACGIH Threshold Limit Values (2011)</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>100 ppm 410 mg/m3</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
</tbody>
</table>

Chemical name | Type | Exposure Limit Values | Source |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl methacrylate</td>
<td>TWA</td>
<td>50 ppm</td>
<td>Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>100 ppm</td>
<td>Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)</td>
</tr>
<tr>
<td>Methyl methacrylate</td>
<td>TWA</td>
<td>50 ppm</td>
<td>Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>100 ppm</td>
<td>Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)</td>
</tr>
</tbody>
</table>
### Appropriate Engineering Controls

Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.

### Individual protection measures, such as personal protective equipment

#### General information:
Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Use explosion-proof ventilation equipment.

#### Eye/face protection:
Wear safety glasses with side shields (or goggles).

#### Skin Protection

**Hand Protection:**
Use suitable protective gloves if risk of skin contact.

**Other:**
Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.

#### Respiratory Protection:
In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

#### Hygiene measures:
Do not eat, drink or smoke when using the product. Wash hands after handling. Avoid contact with eyes. Observe good industrial hygiene practices. When using do not smoke. Wash contaminated clothing before reuse. Avoid contact with skin. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace.

### 9. Physical and chemical properties

#### Appearance

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical state:</strong></td>
<td>liquid</td>
</tr>
<tr>
<td><strong>Form:</strong></td>
<td>liquid</td>
</tr>
<tr>
<td><strong>Color:</strong></td>
<td>Violet</td>
</tr>
<tr>
<td><strong>Odor:</strong></td>
<td>Mild petroleum/solvent</td>
</tr>
<tr>
<td><strong>Odor threshold:</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>pH:</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>Melting point/freezing point:</strong></td>
<td>-48 °C -54 °F</td>
</tr>
<tr>
<td><strong>Initial boiling point and boiling range:</strong></td>
<td>100.3 °C 212.5 °F</td>
</tr>
<tr>
<td><strong>Flash Point:</strong></td>
<td>11.5 °C 52.7 °F</td>
</tr>
<tr>
<td><strong>Evaporation rate:</strong></td>
<td>Slower than Ether</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas):</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Upper/lower limit on flammability or explosive limits</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Flammability limit - upper (%):</strong></td>
<td>12.5 %(V)</td>
</tr>
</tbody>
</table>
Flammability limit - lower (%): 2.1 %(V)
Explosive limit - upper (%): No data available.
Explosive limit - lower (%): No data available.
Vapor pressure: No data available.
Vapor density: Vapors are heavier than air and may travel along the floor and in the bottom of containers.
Relative density: 0.99
Solubility(ies)
Solubility in water: Practically Insoluble
Solubility (other): No data available.
Partition coefficient (n-octanol/water): No data available.
Auto-ignition temperature: No data available.
Decomposition temperature: No data available.
Viscosity: No data available.

10. Stability and reactivity

Reactivity: No data available.
Chemical Stability: Material is stable under normal conditions.
Possibility of hazardous reactions: No data available.
Conditions to avoid: Heat, sparks, flames.
Incompatible Materials: Strong acids. Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates). Strong bases.
Hazardous Decomposition Products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

11. Toxicological information

Information on likely routes of exposure
Inhalation: In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
Skin Contact: Causes skin irritation. May cause an allergic skin reaction.
Eye contact: Causes serious eye irritation.
Ingestion: Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics
Inhalation: No data available.
Skin Contact: No data available.
Eye contact: No data available.
**Ingestion:**
No data available.

**Information on toxicological effects**

**Acute toxicity (list all possible routes of exposure)**

<table>
<thead>
<tr>
<th>Route</th>
<th>Product</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>ATEmix</td>
<td>ATEmix: 331.84 mg/kg</td>
</tr>
<tr>
<td>Dermal</td>
<td>ATEmix</td>
<td>ATEmix: 59,999.74 mg/kg</td>
</tr>
<tr>
<td>Inhalation</td>
<td></td>
<td>Not classified for acute toxicity based on available data.</td>
</tr>
</tbody>
</table>

**Specified substance(s):**
- Methyl methacrylate
  - LC 50 (Rat): 29.8 mg/l

**Repeated dose toxicity**
No data available.

**Skin Corrosion/Irritation**
No data available.

**Specified substance(s):**
- Methyl methacrylate
  - in vivo (Rabbit): irritating after 4/24h occluded exposure Experimental result, Weight of Evidence study
- 2-Propenoic acid, 2-ethylhexyl ester
  - in vivo (Rabbit): Irritating Experimental result, Key study

**Serious Eye Damage/Eye Irritation**
No data available.

**Specified substance(s):**
- 2-Propenoic acid, 2-ethylhexyl ester
  - Rabbit, 24 - 48 hrs: Not irritating

**Respiratory or Skin Sensitization**
No data available.

**Carcinogenicity**
No data available.
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:  
No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:  
No carcinogenic components identified

No carcinogenic components identified

Germ Cell Mutagenicity  
**In vitro**  
Product: No data available.

**In vivo**  
Product: No data available.

Reproductive toxicity  
Product: No data available.

Specific Target Organ Toxicity - Single Exposure  
Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure  
Product: No data available.

Aspiration Hazard  
Product: No data available.

Other effects: No data available.

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12. Ecological information

Ecotoxicity:

**Acute hazards to the aquatic environment:**

**Fish**  
Product: No data available.

**Specified substance(s):**  
Methyl methacrylate  
LC 50 (Fathead minnow (Pimephales promelas), 96 h): 130 mg/l Mortality

**Aquatic Invertebrates**  
Product: No data available.
Chronic hazards to the aquatic environment:

Fish  
Product: No data available.

Aquatic Invertebrates  
Product: No data available.

Toxicity to Aquatic Plants  
Product: No data available.

Persistence and Degradability

Biodegradation  
Product: No data available.

BOD/COD Ratio  
Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)  
Product: No data available.

Partition Coefficient n-octanol / water (log Kow)  
Product: No data available.

Specified substance(s):  
Methyl methacrylate  
Log Kow: 1.38

Mobility in soil: No data available.

Other adverse effects: No data available.

13. Disposal considerations

Disposal instructions: Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Contaminated Packaging: No data available.

14. Transport information

TDG: UN1866, RESIN SOLUTION, 3, PG II

CFR / DOT:

000000025401
UN1866, Resin solution, 3, PG II

IMDG:

UN1866, RESIN SOLUTION, 3, PG II

Further Information:
The above shipping description may not be accurate for all container sizes and all modes of transportation. Please refer to Bill of Lading.

15. Regulatory information

US Federal Regulations
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reportable quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl methacrylate</td>
<td>1000 lbs.</td>
</tr>
</tbody>
</table>

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
- Fire Hazard
- Immediate (Acute) Health Hazards

SARA 302 Extremely Hazardous Substance
None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

<table>
<thead>
<tr>
<th>Chemical Identity</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Methyl methacrylate</td>
<td>1000 lbs.</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazardous Chemical

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Threshold Planning Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl methacrylate</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>2-Propenoic acid, 2-ethylhexyl ester</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>1,4-Butanediol</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Dimethacrylate</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Dihydroxypropyl para-toluidine</td>
<td>10000 lbs</td>
</tr>
</tbody>
</table>

SARA 313 (TRI Reporting)

<table>
<thead>
<tr>
<th>Chemical Identity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl methacrylate</td>
</tr>
</tbody>
</table>

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)
None present or none present in regulated quantities.
US State Regulations

**US. California Proposition 65**
No ingredient regulated by CA Prop 65 present.

**US. New Jersey Worker and Community Right-to-Know Act**

*Chemical Identity*
Methyl methacrylate
2-Propenoic acid, 2-ethylhexyl ester

**US. Massachusetts RTK - Substance List**

*Chemical Identity*
Methyl methacrylate
2-Propenoic acid, 2-ethylhexyl ester

**US. Pennsylvania RTK - Hazardous Substances**

*Chemical Identity*
Methyl methacrylate
2-Propenoic acid, 2-ethylhexyl ester

**US. Rhode Island RTK**

*Chemical Identity*
Methyl methacrylate
2-Propenoic acid, 2-ethylhexyl ester

International regulations

**Montreal protocol**
not applicable

**Stockholm convention**
not applicable

**Rotterdam convention**
not applicable

**Kyoto protocol**
not applicable

**VOC:**

Regulatory VOC (less water and exempt solvent) : 0 g/l

VOC Method 310 : 0.00 %
### Inventory Status:

**Australia AICS:**
One or more components in this product are not listed on or exempt from the Inventory.

**Canada DSL Inventory List:**
One or more components in this product are not listed on or exempt from the Inventory.

**EINECS, ELINCS or NLP:**
One or more components in this product are not listed on or exempt from the Inventory.

**Japan (ENCS) List:**
One or more components in this product are not listed on or exempt from the Inventory.

**China Inv. Existing Chemical Substances:**
One or more components in this product are not listed on or exempt from the Inventory.

**Korea Existing Chemicals Inv. (KECI):**
One or more components in this product are not listed on or exempt from the Inventory.

**Canada NDSL Inventory:**
One or more components in this product are not listed on or exempt from the Inventory.

**Philippines PICCS:**
One or more components in this product are not listed on or exempt from the Inventory.

**US TSCA Inventory:**
One or more components in this product are not listed on or exempt from the Inventory.

**New Zealand Inventory of Chemicals:**
One or more components in this product are not listed on or exempt from the Inventory.

**Japan ISHL Listing:**
One or more components in this product are not listed on or exempt from the Inventory.

**Japan Pharmacopoeia Listing:**
One or more components in this product are not listed on or exempt from the Inventory.

**Mexico INSQ:**
One or more components in this product are not listed on or exempt from the Inventory.

**Ontario Inventory:**
One or more components in this product are not listed on or exempt from the Inventory.

**Taiwan Chemical Substance Inventory:**
One or more components in this product are not listed on or exempt from the Inventory.
16. Other information, including date of preparation or last revision

Revision Date: 05/25/2017
Version #: 1.0
Further Information: No data available.
Disclaimer: For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.