# PMMA Primer R
Item No. 83233SP

Safety Data Sheet

## SECTION 1: IDENTIFICATION

### Product Identifier
- **Product Form:** Mixture
- **Product Name:** PMMA Primer R
- **Synonyms:** Pro Primer R Resin, PMMA Primer for Asphalt

### Intended Use of the Product
- **Use of the Substance/Mixture:** Liquid-applied Waterproofing System - Component. For professional use only.

### Name, Address, and Telephone of the Responsible Party

#### Company
Laurenco Waterproofing  
7301 Bessemer Avenue  
Cleveland, OH., 44127  
Phone: (800) 321-3337  
www.laurencowaterproofing.com

#### Manufacturer
Laurenco Waterproofing  
Division of FBC Chemical Corp.  
7301 Bessemer Avenue  
Cleveland, OH., 44127  
Phone: (800) 321-3337

### Emergency Telephone Number
- **Emergency Number:** 800-424-9300 (CHEMTREC)

## SECTION 2: HAZARDS IDENTIFICATION

### Classification of the Substance or Mixture

<table>
<thead>
<tr>
<th>Classification (GHS-US)</th>
<th>GHS-US Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flam. Liq. 2</td>
<td>H225</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>H315</td>
</tr>
<tr>
<td>Eye Irrit. 2A</td>
<td>H319</td>
</tr>
<tr>
<td>Resp. Sens. 1</td>
<td>H334</td>
</tr>
<tr>
<td>Skin Sens. 1</td>
<td>H317</td>
</tr>
<tr>
<td>Repr. 1B</td>
<td>H360</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>H335</td>
</tr>
<tr>
<td>Aquatic Acute 3</td>
<td>H402</td>
</tr>
<tr>
<td>Aquatic Chronic 2</td>
<td>H411</td>
</tr>
</tbody>
</table>

### Label Elements

- **GHS-US Labeling:**
- **Hazard Pictograms (GHS-US):**

- **Signal Word (GHS-US):** Danger
- **Hazard Statements (GHS-US):**
  - H225 - Highly flammable liquid and vapor.
  - H315 - Causes skin irritation.
  - H317 - May cause an allergic skin reaction.
  - H319 - Causes serious eye irritation.
  - H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  - H335 - May cause respiratory irritation.
  - H360 - May damage fertility or the unborn child.
  - H402 - Harmful 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, sparks, open flames, hot surfaces. - No smoking.
  - P233 - Keep container tightly closed.
  - P240 - Ground/bond container and receiving equipment.
  - P241 - Use explosion-proof electrical, ventilating, and lighting equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P261 - Avoid breathing vapors, mist, spray.
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing must not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, eye protection, face protection, respiratory protection.
P284 - [In case of inadequate ventilation] wear respiratory protection.
P302+P352 - If on skin: Wash with plenty of water.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position 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.
P312 - Call a poison center/doctor/… if you feel unwell.
P321 - Specific treatment (see section 4).
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P342+P311 - If experiencing respiratory symptoms: Call a poison center/doctor.
P362 - Take off contaminated clothing and wash before reuse.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use appropriate media to extinguish.
P391 - Collect spillage.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents/container according to local, regional, national, territorial, provincial, and international regulations.

Other Hazards
Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. Flammable vapors can accumulate in head space of closed systems.

Unknown Acute Toxicity (GHS-US)  Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Mixture</th>
<th>Name</th>
<th>Product Identifier</th>
<th>% (w/w)</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
</table>
| Mixture | Methyl methacrylate | (CAS No) 80-62-6 | 30 - 60 | Flam. Liq. 2, H225  
Skin Irrit. 2, H315  
Eye Irrit. 2B, H320  
Resp. Sens. 1, H334  
Skin Sens. 1, H317  
STOT SE 3, H335  
Aquatic Acute 3, H402 |
| Mixture | 2-Ethylhexyl acrylate | (CAS No) 103-11-7 | 0 - 10 | Flam. Liq. 4, H227  
Skin Irrit. 2, H315  
Eye Irrit. 2A, H319  
Skin Sens. 1, H317  
STOT SE 3, H336  
Aquatic Acute 3, H402  
Aquatic Chronic 3, H412 |
Paraffin waxes and Hydrocarbon waxes  | (CAS No) 8002-74-2 | 1 - 2 | Comb. Dust
---|---|---|---
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate  | (CAS No) 6846-50-0 | 0 - 1 | Aquatic Acute 2, H401
 |  |  | Aquatic Chronic 3, H412
2-Propanol, 1,1'[::-4-methylphenyl]limino]bis-  | (CAS No) 38668-48-3 | 0 - 1 | Acute Tox. 2 (Oral), H300
 |  |  | Eye Irrit. 2A, H319
 |  |  | Aquatic Acute 3, H402
 |  |  | Aquatic Chronic 3, H412
1-Methyl-2-pyrrolidone  | (CAS No) 872-50-4 | 0 1 | Flam. Liq. 4, H227
 |  |  | Skin Irrit. 2, H315
 |  |  | Eye Irrit. 2A, H319
 |  |  | Repr. 1B, H360
 |  |  | STOT SE 3, H335

Full text of H-phrases: see section 16

**SECTION 4: FIRST AID MEASURES**

**Description of First Aid Measures**

**General:** Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.

**Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persist.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Seek medical attention.

**Most Important Symptoms and Effects Both Acute and Delayed**

**General:** Eye irritation. Skin irritation. May cause an allergic skin reaction. Inhalation may cause allergic respiratory reaction with asthma-like symptoms and difficulty breathing. Irritation of respiratory tract. Causes serious eye irritation. May damage fertility or the unborn child.

**Inhalation:** May cause respiratory irritation. Exposure may produce an allergic reaction. May cause drowsiness or dizziness. Inhalation may cause immediate severe irritation progressing quickly to chemical burns.

**Skin Contact:** Causes skin irritation. May cause an allergic skin reaction.

**Eye Contact:** Causes eye irritation.

**Ingestion:** Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms:** May damage fertility or the unborn child.

**Indication of Any Immediate Medical Attention and Special Treatment Needed**

If exposed or concerned, get medical advice and attention.

**SECTION 5: FIRE-FIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Media:** Dry chemical powder, foam, carbon dioxide (CO2).

**Unsuitable Extinguishing Media:** Do not use extinguishing media containing water.

**Special Hazards Arising From the Substance or Mixture**

**Fire Hazard:** Highly flammable liquid and vapor.

**Explosion Hazard:** May form flammable/explosive vapor-air mixture.

**Reactivity:** Product may polymerize at 60°C (>140°F), causing an exothermic reaction which may cause container damage or fire. May react with peroxides, oxidizers, and incompatibilities.

**Advice for Firefighters**

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.


**Other Information:** Do not allow run-off from fire fighting to enter drains or water courses.

**Reference to Other Sections**

Refer to section 9 for flammability properties.
SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Use special care to avoid static electric charges. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Avoid all eyes and skin contact and do not breathe vapor and mist. Do not allow product to spread into the environment. Handle in accordance with good industrial hygiene and safety practice.

For Non-Emergency Personnel
Protective Equipment: Use appropriate personal protection equipment (PPE).

For Emergency Personnel
Protective Equipment: Equip cleanup crew with proper protection. Use appropriate personal protection equipment (PPE).
Emergency Procedures: Ventilate area.

Environmental Precautions
Prevent entry to sewers and public waters. Avoid release to the environment.

Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material, then place in suitable container. Do not take up in combustible material such as: saw dust or cellulose material. Contact competent authorities after a spill.

Reference to Other Sections
See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: Handle empty containers with care because residual vapors are flammable. Product may polymerize at 60°C (>140°F), causing an exothermic reaction which may cause container damage or fire. May react with peroxides, oxidizers, and incompatibilities. When heated to decomposition, emits toxic fumes.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Wash hands and forearms thoroughly after handling. 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.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep in fireproof place. Keep/Store away from extremely high or low temperatures, ignition sources, combustible materials, heat, direct sunlight, incompatible materials.


Specific End Use(s)
Liquid-applied Waterproofing System - Component.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

<table>
<thead>
<tr>
<th>Substance</th>
<th>Mexico OEL TWA (mg/m³)</th>
<th>Mexico OEL TWA (ppm)</th>
<th>Mexico OEL STEL (mg/m³)</th>
<th>Mexico OEL STEL (ppm)</th>
<th>USA ACGIH ACGIH TWA (ppm)</th>
<th>USA ACGIH ACGIH STEL (ppm)</th>
<th>USA OSHA OSHA PEL (TWA) (mg/m³)</th>
<th>USA OSHA OSHA PEL (TWA) (ppm)</th>
<th>USA NIOSH NIOSH REL (TWA) (mg/m³)</th>
<th>USA NIOSH NIOSH REL (TWA) (ppm)</th>
<th>USA IDLH (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl methacrylate</td>
<td>410 mg/m³</td>
<td>100 ppm</td>
<td>510 mg/m³</td>
<td>125 ppm</td>
<td>50 ppm</td>
<td>100 ppm</td>
<td>410 mg/m³</td>
<td>100 ppm</td>
<td>410 mg/m³</td>
<td>100 ppm</td>
<td>1000 ppm</td>
</tr>
</tbody>
</table>
## Safety Data Sheet

<table>
<thead>
<tr>
<th>Province</th>
<th>OEL STEL (mg/m³)</th>
<th>OEL TWA (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alberta</td>
<td>410 mg/m³</td>
<td>205 mg/m³</td>
</tr>
<tr>
<td>British Columbia</td>
<td>100 ppm</td>
<td>50 ppm</td>
</tr>
<tr>
<td>Manitoba</td>
<td>100 ppm</td>
<td>50 ppm</td>
</tr>
<tr>
<td>New Brunswick</td>
<td>410 mg/m³</td>
<td>100 ppm</td>
</tr>
<tr>
<td>Newfoundland &amp; Labrador</td>
<td>100 ppm</td>
<td>50 ppm</td>
</tr>
<tr>
<td>Nova Scotia</td>
<td>100 ppm</td>
<td>50 ppm</td>
</tr>
<tr>
<td>Nunavut</td>
<td>510 mg/m³</td>
<td>125 ppm</td>
</tr>
<tr>
<td>Northwest Territories</td>
<td>510 mg/m³</td>
<td>125 ppm</td>
</tr>
<tr>
<td>Ontario</td>
<td>2 mg/m³ (fume)</td>
<td>100 ppm</td>
</tr>
<tr>
<td>Prince Edward Island</td>
<td>100 ppm</td>
<td>50 ppm</td>
</tr>
<tr>
<td>Québec</td>
<td>205 mg/m³</td>
<td>50 ppm</td>
</tr>
<tr>
<td>Saskatchewan</td>
<td>100 ppm</td>
<td>50 ppm</td>
</tr>
<tr>
<td>Yukon</td>
<td>510 mg/m³</td>
<td>125 ppm</td>
</tr>
<tr>
<td>Yukon</td>
<td>410 mg/m³</td>
<td>100 ppm</td>
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### Paraffin waxes and Hydrocarbon waxes (8002-74-2)

<table>
<thead>
<tr>
<th>Province</th>
<th>OEL STEL (mg/m³)</th>
<th>OEL TWA (mg/m³)</th>
<th>VEMP (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mexico</td>
<td>6 mg/m³ (fume)</td>
<td>2 mg/m³ (fume)</td>
<td></td>
</tr>
<tr>
<td>USA ACGIH</td>
<td>2 mg/m³ (fume)</td>
<td>2 mg/m³ (fume)</td>
<td></td>
</tr>
<tr>
<td>USA NIOSH</td>
<td>2 mg/m³ (fume)</td>
<td>2 mg/m³ (fume)</td>
<td></td>
</tr>
<tr>
<td>Alberta</td>
<td>2 mg/m³ (fume)</td>
<td>2 mg/m³ (fume)</td>
<td></td>
</tr>
<tr>
<td>British Columbia</td>
<td>2 mg/m³ (fume)</td>
<td>2 mg/m³ (fume)</td>
<td></td>
</tr>
<tr>
<td>Manitoba</td>
<td>2 mg/m³ (fume)</td>
<td>2 mg/m³ (fume)</td>
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<tr>
<td>New Brunswick</td>
<td>2 mg/m³ (fume)</td>
<td>2 mg/m³ (fume)</td>
<td></td>
</tr>
<tr>
<td>Newfoundland &amp; Labrador</td>
<td>2 mg/m³ (fume)</td>
<td>2 mg/m³ (fume)</td>
<td></td>
</tr>
<tr>
<td>Nova Scotia</td>
<td>2 mg/m³ (fume)</td>
<td>2 mg/m³ (fume)</td>
<td></td>
</tr>
<tr>
<td>Nunavut</td>
<td>2 mg/m³ (fume)</td>
<td>2 mg/m³ (fume)</td>
<td></td>
</tr>
<tr>
<td>Northwest Territories</td>
<td>2 mg/m³ (fume)</td>
<td>2 mg/m³ (fume)</td>
<td></td>
</tr>
<tr>
<td>Ontario</td>
<td>2 mg/m³ (fume)</td>
<td>2 mg/m³ (fume)</td>
<td></td>
</tr>
<tr>
<td>Prince Edward Island</td>
<td>2 mg/m³ (fume)</td>
<td>2 mg/m³ (fume)</td>
<td></td>
</tr>
<tr>
<td>Québec</td>
<td>2 mg/m³ (fume)</td>
<td>2 mg/m³ (fume)</td>
<td></td>
</tr>
</tbody>
</table>
**Appendix A: Laboratory Chemicals**

PMMA Primer R, Item No. 83233SP

**Safety Data Sheet**

<table>
<thead>
<tr>
<th>Saskatchewan</th>
<th>OEL STEL (mg/m³)</th>
<th>4 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Saskatchewan</td>
<td>OEL TWA (mg/m³)</td>
<td>2 mg/m³</td>
</tr>
<tr>
<td>Yukon</td>
<td>OEL STEL (mg/m³)</td>
<td>6 mg/m³ (fume)</td>
</tr>
<tr>
<td>Yukon</td>
<td>OEL TWA (mg/m³)</td>
<td>2 mg/m³ (fume)</td>
</tr>
</tbody>
</table>

**1-Methyl-2-pyrrolidone (872-50-4)**

<table>
<thead>
<tr>
<th>Ontario</th>
<th>OEL TWA (mg/m³)</th>
<th>400 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yukon</td>
<td>OEL STEL (mg/m³)</td>
<td>500 mg/m³</td>
</tr>
<tr>
<td>Yukon</td>
<td>OEL STEL (ppm)</td>
<td>125 ppm</td>
</tr>
<tr>
<td>Yukon</td>
<td>OEL TWA (mg/m³)</td>
<td>400 mg/m³</td>
</tr>
<tr>
<td>Yukon</td>
<td>OEL TWA (ppm)</td>
<td>100 ppm</td>
</tr>
</tbody>
</table>

**Exposure Controls**

**Appropriate Engineering Controls:** Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases/vapors may be released. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas.

**Personal Protective Equipment:** Protective clothing. Gloves. Insufficient ventilation: wear respiratory protection. Protective goggles.

**Materials for Protective Clothing:** Chemically resistant materials and fabrics. Wear fire/flame resistant/retardant clothing.

**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** Chemical goggles or safety glasses.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of vapor or mist are expected to exceed exposure limits.

**Thermal Hazard Protection:** Wear suitable protective clothing.

**Other Information:** When using, do not eat, drink or smoke.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Information on Basic Physical and Chemical Properties**

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>Methyl methacrylate</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>94 °C (201.20 °F)</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt;10 °C (50.00 °F)</td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not available</td>
</tr>
<tr>
<td>Lower Flammable Limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Upper Flammable Limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>&gt; 50 hPa @50°C (122°F)</td>
</tr>
<tr>
<td>Relative Vapor Density at 20 °C</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative Density</td>
<td>Not available</td>
</tr>
<tr>
<td>Density</td>
<td>0.99 g/l (@20°C (68°F))</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility</td>
<td>In water, material is partially soluble.</td>
</tr>
</tbody>
</table>
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Partition Coefficient: N-octanol/water: Not available
Viscosity: Efflux time 45-60 sec @20°C (68°F)
Explosion Data – Sensitivity to Mechanical Impact: Not expected to present an explosion hazard due to mechanical impact.
Explosion Data – Sensitivity to Static Discharge: Static discharge could act as an ignition source.

SECTION 10: STABILITY AND REACTIVITY
Reactivity: Product may polymerize at 60°C (>140°F), causing an exothermic reaction which may cause container damage or fire. May react with peroxides, oxidizers, and incompatibilities.
Chemical Stability: Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.
Possibility of Hazardous Reactions: Hazardous polymerization may occur.

SECTION 11: TOXICOLOGICAL INFORMATION
Information on Toxicological Effects - Product
Acute Toxicity: Not classified
LD50 and LC50 Data: Not available
Skin Corrosion/Irritation: Causes skin irritation.
Serious Eye Damage/Irritation: Causes serious eye irritation.
Respiratory or Skin Sensitization: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ Cell Mutagenicity: Not classified
Teratogenicity: Not available
Carcinogenicity: Not classified
Specific Target Organ Toxicity (Repeated Exposure): Not classified
Reproductive Toxicity: May damage fertility or the unborn child.
Specific Target Organ Toxicity (Single Exposure): May cause respiratory irritation.
Aspiration Hazard: Not classified
Symptoms/Injuries After Inhalation: May cause respiratory irritation. Exposure may produce an allergic reaction. May cause drowsiness or dizziness. Inhalation may cause immediate severe irritation progressing quickly to chemical burns.
Symptoms/Injuries After Skin Contact: Causes skin irritation. May cause an allergic skin reaction.
Symptoms/Injuries After Eye Contact: Causes eye irritation.
Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.
Chronic Symptoms: May damage fertility or the unborn child.
Information on Toxicological Effects - Ingredient(s)
LD50 and LC50 Data:

<table>
<thead>
<tr>
<th>Compound</th>
<th>LD50 Oral Rat</th>
<th>LD50 Dermal Rabbit</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanol, 1,1'-(4-methylphenyl)imino)bis- (38668-48-3)</td>
<td>25 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Methyl methacrylate (80-62-6)</td>
<td>7900 mg/kg</td>
<td></td>
</tr>
<tr>
<td>LC50 Inhalation Rat</td>
<td>4632 ppm/4h</td>
<td></td>
</tr>
<tr>
<td>2-Ethylhexyl acrylate (103-11-7)</td>
<td>4435 mg/kg</td>
<td></td>
</tr>
<tr>
<td>LD50 Dermal Rabbit</td>
<td>7522 mg/kg</td>
<td></td>
</tr>
<tr>
<td>2,2,4-Trimeyl-1,3-pentanediol diisobutyrate (6846-50-0)</td>
<td>&gt; 3200 mg/kg</td>
<td></td>
</tr>
<tr>
<td>LD50 Oral Rat</td>
<td>&gt; 3750 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Paraffin waxes and Hydrocarbon waxes (8002-74-2)</td>
<td>&gt; 3600 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>
1-Methyl-2-pyrrolidone (872-50-4)

<table>
<thead>
<tr>
<th>endpoint</th>
<th>value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 Oral Rat</td>
<td>4150 mg/kg</td>
</tr>
<tr>
<td>LD50 Dermal Rabbit</td>
<td>&gt; 5000 mg/kg</td>
</tr>
<tr>
<td>LC50 Inhalation Rat</td>
<td>5.1 mg/l/4h</td>
</tr>
</tbody>
</table>

Methyl methacrylate (80-62-6)

<table>
<thead>
<tr>
<th>endpoint</th>
<th>value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 Fish 1</td>
<td>17 mg/l</td>
</tr>
<tr>
<td>LC50 Fish 2</td>
<td>243 - 275 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])</td>
</tr>
<tr>
<td>EC50 Fish 1</td>
<td>69 mg/l (Exposure time: 48 h - Species: Daphnia magna)</td>
</tr>
<tr>
<td>LC 50 Fish 2</td>
<td>125.5 - 190.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])</td>
</tr>
</tbody>
</table>

2-Ethylhexyl acrylate (103-11-7)

<table>
<thead>
<tr>
<th>endpoint</th>
<th>value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 Daphnia 1</td>
<td>17.45 mg/l (Exposure time: 48 h - Species: Daphnia magna)</td>
</tr>
</tbody>
</table>

Persistence and Degradability

May cause long-term adverse effects in the environment.

Bioaccumulative Potential

Not established.

Mobility in Soil

Not available

Other Adverse Effects

Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.
Additional Information: Handle empty containers with care because residual vapors are flammable.

SECTION 14: TRANSPORT INFORMATION

In Accordance with DOT
Proper Shipping Name : PAINT
Hazard Class : 3
Identification Number : UN1263
Label Codes : 3
Packing Group : II
Marine Pollutant : Marine pollutant
ERG Number : 128

In Accordance with IMDG
Proper Shipping Name : PAINT
Hazard Class : 3
Identification Number : UN1263
Packing Group : II
Label Codes : 3
EmS-No. (Fire) : F-E
EmS-No. (Spillage) : S-E
Marine pollutant : Marine pollutant

In Accordance with IATA
Proper Shipping Name : PAINT
Packing Group : II
Identification Number : UN1263
Hazard Class : 3
Label Codes : 3
ERG Code (IATA) : 3L

In Accordance with TDG
Proper Shipping Name : PAINT
Packing Group : II
Hazard Class : 3
Identification Number : UN1263
Label Codes : 3
Marine Pollutant (TDG) : Marine pollutant

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

<table>
<thead>
<tr>
<th>PMMA Primer R</th>
<th>Fire hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>SARA Section 311/312 Hazard Classes</td>
<td>Immediate (acute) health hazard</td>
</tr>
<tr>
<td></td>
<td>Delayed (chronic) health hazard</td>
</tr>
</tbody>
</table>

2-Propanol, 1,1’-[(4-methylphenyl)]imino]bis- (38668-48-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Methyl methacrylate (80-62-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on United States SARA Section 313

SARA Section 313 - Emission Reporting | 1.0 %

2-Ethylhexyl acrylate (103-11-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Bisphenol A-epichlorohydrin polymer (25068-38-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
PMMA Primer R, Item No. 83233SP

Safety Data Sheet

2,2,4-Trimethyl-1,3-pentanediol diisobutyrate (6846-50-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Paraffin waxes and Hydrocarbon waxes (8002-74-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

1-Methyl-2-pyrolidone (872-50-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on United States SARA Section 313

EPA TSCA Regulatory Flag
T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.

SARA Section 313 - Emission Reporting
1.0 %

US State Regulations

1-Methyl-2-pyrolidone (872-50-4)

U.S. - California - Proposition 65 - Developmental Toxicity
WARNING: This product contains chemicals known to the State of California to cause birth defects.

Methyl methacrylate (80-62-6)
U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)
U.S. - Colorado - Hazardous Wastes - Discarded Chemical Products, Off-Specification Species, Container and Spill Residues
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)
U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations
U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)
U.S. - Idaho - Occupational Exposure Limits - TWAs
U.S. - Illinois - Toxic Air Contaminants
U.S. - Louisiana - Reportable Quantity List for Pollutants
U.S. - Maine - Air Pollutants - Hazardous Air Pollutants
U.S. - Massachusetts - Allowable Ambient Limits (AALs)
U.S. - Massachusetts - Allowable Threshold Concentrations (ATCs)
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2
U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2
RTK - U.S. - Massachusetts - Right To Know List
U.S. - Massachusetts - Threshold Effects Exposure Limits (TEls)
U.S. - Massachusetts - Toxics Use Reduction Act
U.S. - Michigan - Occupational Exposure Limits - TWAs
U.S. - Michigan - Polluting Materials List
U.S. - Minnesota - Chemicals of High Concern
U.S. - Minnesota - Hazardous Substance List
U.S. - Minnesota - Permissible Exposure Limits - TWAs
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual
U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances
U.S. - New Jersey - Environmental Hazardous Substances List
RTK - U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - New Jersey - Special Health Hazards Substances List
U.S. - New York - Occupational Exposure Limits - TWAs
U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 1-Hour
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour
U.S. - North Dakota - Hazardous Wastes - Discarded Chemical Products, Off-Specification Species, Container and Spill Residues
U.S. - Oregon - Permissible Exposure Limits - TWAs

WARNING: This product contains chemicals known to the State of California to cause birth defects.
2-Ethylhexyl acrylate (103-11-7)

- U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1
- U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2
- U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity
- U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1
- U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2

Bisphenol A-epichlorohydrin polymer (25068-38-6)

- U.S. - Texas - Effects Screening Levels - Long Term
- U.S. - Texas - Effects Screening Levels - Short Term

2,2,4-Trimethyl-1,3-pentanediol diisobutyrate (6846-50-0)

- U.S. - Minnesota - Chemicals of High Concern
- U.S. - Texas - Effects Screening Levels - Long Term
- U.S. - Texas - Effects Screening Levels - Short Term

Paraffin waxes and Hydrocarbon waxes (8002-74-2)

- U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)
- U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)
- U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations
- U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)
- U.S. - Michigan - Occupational Exposure Limits - TWAs
- U.S. - Minnesota - Hazardous Substance List
- U.S. - Minnesota - Permissible Exposure Limits - TWAs
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - New York - Occupational Exposure Limits - TWAs
- U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour
- U.S. - Oregon - Permissible Exposure Limits - TWAs
- U.S. - Tennessee - Occupational Exposure Limits - TWAs
- U.S. - Texas - Effects Screening Levels - Long Term
- U.S. - Texas - Effects Screening Levels - Short Term
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U.S. - Vermont - Permissible Exposure Limits - TWAs  
U.S. - Washington - Permissible Exposure Limits - STELs  
U.S. - Washington - Permissible Exposure Limits - TWAs

<table>
<thead>
<tr>
<th>1-Methyl-2-pyrrolidone (872-50-4)</th>
</tr>
</thead>
</table>
| U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)  
U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities  
U.S. - Maine - Chemicals of High Concern  
RTK - U.S. - Massachusetts - Right To Know List  
U.S. - Massachusetts - Toxics Use Reduction Act  
U.S. - Minnesota - Chemicals of High Concern  
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour  
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual  
U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances  
U.S. - New Jersey - Environmental Hazardous Substances List  
RTK - U.S. - New Jersey - Right to Know Hazardous Substance List  
U.S. - New Jersey - Special Health Hazards Substances List  
RTK - U.S. - Pennsylvania - RTK (Right to Know) List  
U.S. - Texas - Effects Screening Levels - Long Term  
U.S. - Texas - Effects Screening Levels - Short Term

**Canadian Regulations**

<table>
<thead>
<tr>
<th>PMMA Primer R</th>
</tr>
</thead>
</table>
| WHMIS Classification | Class B Division 2 - Flammable Liquid  
Class D Division 2 Subdivision A - Very toxic material causing other toxic effects  
Class D Division 2 Subdivision B - Toxic material causing other toxic effects |

<table>
<thead>
<tr>
<th>2-Propanol, 1,1'-(4-methylphenyl)imino]bis- (38668-48-3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Listed on the Canadian DSL (Domestic Sustances List)</td>
</tr>
</tbody>
</table>
| WHMIS Classification | Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects  
Class D Division 2 Subdivision B - Toxic material causing other toxic effects |

<table>
<thead>
<tr>
<th>Methyl methacrylate (80-62-6)</th>
</tr>
</thead>
</table>
| Listed on the Canadian DSL (Domestic Sustances List)  
Listed on the Canadian IDL (Ingredient Disclosure List)  
IDL Concentration 1 % |
| WHMIS Classification | Class B Division 2 - Flammable Liquid  
Class D Division 2 Subdivision B - Toxic material causing other toxic effects  
Class D Division 2 Subdivision A - Very toxic material causing other toxic effects |

<table>
<thead>
<tr>
<th>2-Ethylhexyl acrylate (103-11-7)</th>
</tr>
</thead>
</table>
| Listed on the Canadian DSL (Domestic Sustances List)  
Listed on the Canadian IDL (Ingredient Disclosure List)  
IDL Concentration 1 % |
| WHMIS Classification | Class B Division 3 - Combustible Liquid  
Class D Division 2 Subdivision B - Toxic material causing other toxic effects |

<table>
<thead>
<tr>
<th>2,2,4-Trimethyl-1,3-pentanediol diisobutyrate (6846-50-0)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Listed on the Canadian DSL (Domestic Sustances List)</td>
</tr>
<tr>
<td>WHMIS Classification</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Paraffin waxes and Hydrocarbon waxes (8002-74-2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Listed on the Canadian DSL (Domestic Sustances List)</td>
</tr>
</tbody>
</table>
### PMMA Primer R, Item No. 83233SP

**Safety Data Sheet**

### WHMIS Classification

Uncontrolled product according to WHMIS classification criteria

<table>
<thead>
<tr>
<th>Compound</th>
<th>WHMIS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Methyl-2-pyrrolidone (872-50-4)</td>
<td>Listed on the Canadian DSL (Domestic Substances List) Class B Division 3 - Combustible Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects</td>
</tr>
</tbody>
</table>

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date**: 05/29/2015

**Other Information**: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

### GHS Full Text Phrases:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 2 (Oral)</td>
<td>Acute toxicity (oral) Category 2</td>
</tr>
<tr>
<td>Aquatic Acute 2</td>
<td>Hazardous to the aquatic environment - Acute Hazard Category 2</td>
</tr>
<tr>
<td>Aquatic Acute 3</td>
<td>Hazardous to the aquatic environment - Acute Hazard Category 3</td>
</tr>
<tr>
<td>Aquatic Chronic 2</td>
<td>Hazardous to the aquatic environment - Chronic Hazard Category 2</td>
</tr>
<tr>
<td>Aquatic Chronic 3</td>
<td>Hazardous to the aquatic environment - Chronic Hazard Category 3</td>
</tr>
<tr>
<td>Comb. Dust</td>
<td>Combustible Dust</td>
</tr>
<tr>
<td>Eye Irrit. 2A</td>
<td>Serious eye damage/eye irritation Category 2A</td>
</tr>
<tr>
<td>Eye Irrit. 2B</td>
<td>Serious eye damage/eye irritation Category 2B</td>
</tr>
<tr>
<td>Flam. Liq. 2</td>
<td>Flammable liquids Category 2</td>
</tr>
<tr>
<td>Flam. Liq. 4</td>
<td>Flammable liquids Category 4</td>
</tr>
<tr>
<td>Repr. 1B</td>
<td>Reproductive toxicity Category 1B</td>
</tr>
<tr>
<td>Resp. Sens. 1</td>
<td>Respiratory sensitisation Category 1</td>
</tr>
<tr>
<td>Skin Irrit. 2</td>
<td>Skin corrosion/irritation Category 2</td>
</tr>
<tr>
<td>Skin Sens. 1</td>
<td>Skin sensitization Category 1</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity (single exposure) Category 3</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity (single exposure) Category 3</td>
</tr>
<tr>
<td>H225</td>
<td>Highly flammable liquid and vapor</td>
</tr>
<tr>
<td>H227</td>
<td>Combustible liquid</td>
</tr>
<tr>
<td>H300</td>
<td>Fatal if swallowed</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>H320</td>
<td>Causes eye irritation</td>
</tr>
<tr>
<td>H334</td>
<td>May cause allergy or asthma symptoms or breathing difficulties if inhaled</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
<tr>
<td>H336</td>
<td>May cause drowsiness or dizziness</td>
</tr>
<tr>
<td>H360</td>
<td>May damage fertility or the unborn child</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>H411</td>
<td>Toxic to aquatic life with long lasting effects</td>
</tr>
<tr>
<td>H412</td>
<td>Harmful to aquatic life with long lasting effects</td>
</tr>
</tbody>
</table>
PMMA Primer R, Item No. 83233SP
Safety Data Sheet

Party Responsible for the Preparation of This Document
FBC Administrative Services Department
(800) 446-2340

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

North America GHS US 2012 & WHMIS