



**Parapro Roof Membrane Resin (Gray, White); Parapro Flashing (Gray, White);
Terapro Base Resin; Terapro Flashing Resin; Terapro VTS Resin;
Terapro Wearing Layer; Paracoat (Gray, White, Sand); Paracoat HS**

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SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture

Product Name: Parapro Roof Membrane Resin (Gray, White); Parapro Flashing (Gray, White); Terapro Base Resin; Terapro Flashing Resin; Terapro VTS Resin; Terapro Wearing Layer; Paracoat (Sand, Gray, White); Paracoat HS

Intended Use of the Product

Use of the Substance/Mixture: Liquid Resin Roofing & Waterproofing Systems. For professional use only.

Name, Address, and Telephone of the Responsible Party

Company

Siplast, Inc.
1000 Rochelle Blvd
Irving, TX 75062
T 800-922-8800

www.siplast.com

Manufacturer

Siplast, Inc.
35 McClellan Blvd
Arkadelphia, AR 71923
T 870-246-9000

Emergency Telephone Number

Emergency Number : 800-424-9300 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US)

- Flam. Liq. 2 H225
- Acute Tox. 4 (Oral) H302
- Skin Irrit. 2 H315
- Eye Irrit. 2A H319
- Resp. Sens. 1 H334
- Skin Sens. 1 H317
- Muta. 1B H340
- Carc. 1B H350
- Carc. 2 H351
- STOT SE 3 H335
- STOT SE 3 H336
- Aquatic Acute 3 H402
- Aquatic Chronic 3 H412

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US)

: Danger

Hazard Statements (GHS-US)

- : H225 - Highly flammable liquid and vapor.
- : H302 - Harmful if swallowed.
- : 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.
- : H336 - May cause drowsiness or dizziness.
- : H340 - May cause genetic defects.



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- H350 - May cause cancer.
H351 - Suspected of causing cancer
H360 - May damage fertility or the unborn child.
H402 - Harmful to aquatic life.
H412 - Harmful 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.
P260 - Do not breathe vapors, mist, spray.
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
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.
P301+P312 - If swallowed: Call a poison center/doctor if you feel unwell.
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.
P321 - Specific treatment (see section 4).
P330 - Rinse mouth.
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+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use appropriate media to extinguish.
P403+P233+ P235 - Store in a well-ventilated place. Keep container tightly closed. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with 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

Mixture

| Name | Product Identifier | % (w/w) | Classification (GHS-US) |
|---------------------|--------------------|---------|---|
| Methyl methacrylate | (CAS No) 80-62-6 | 15 - 40 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 |



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| | | | |
|--|----------------------|-----------|--|
| | | | Eye Irrit. 2B, H320 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 3, H402 |
| 2-Ethylhexyl acrylate | (CAS No) 103-11-7 | 10 - 30 | 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 |
| Titanium dioxide | (CAS No) 13463-67-7 | 0 - 20 | Carc. 2, H351 |
| Quartz | (CAS No) 14808-60-7 | 0.1 – 2.0 | Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372 |
| | | | |
| Naphtha, petroleum, hydrodesulfurized heavy | (CAS No) 64742-82-1 | 0 – 0.5 | Flam. Liq. 1, H224 Skin Irrit. 2, H315 Muta. 1B, H340 Carc. 1B, H350 Repr. 2, H361 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |
| Fatty acids, C18, unsaturated, dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine | (CAS No) 162627-17-0 | 0 – 0.5 | Skin Sens. 1, H317 |
| Solvent naphtha, petroleum, light aromatic | (CAS No) 64742-95-6 | 0 – 0.5 | Flam. Liq. 1, H224 Skin Irrit. 2, H315 Muta. 1B, H340 Carc. 1B, H350 Repr. 2, H361 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411 |

Multiple WHMIS ranges have been utilized due to varying composition.

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.



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Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

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

Most Important Symptoms and Effects Both Acute and Delayed

General: Harmful if swallowed. Causes eye irritation. Skin irritation. May cause an allergic skin reaction. Irritation of respiratory tract. May damage fertility. May damage the unborn child. Inhalation may cause allergic respiratory reaction with asthma-like symptoms and difficulty breathing. Vapors may cause drowsiness and dizziness. May cause cancer. May cause heritable genetic damage.

Inhalation: May cause respiratory irritation. Exposure may produce an allergic reaction. May cause drowsiness or dizziness.

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

Eye Contact: Causes eye irritation.

Ingestion: Swallowing a small quantity of this material will result in serious health hazard.

Chronic Symptoms: May damage fertility. May damage the unborn child. May cause heritable genetic damage. May cause cancer.

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: Water spray, dry chemical, foam, carbon dioxide.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

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.

Hazardous Combustion Products: Carbon oxides (CO, CO₂). Nitrogen oxides. Hydrocarbons. Black smoke. Methyl methacrylate. Oxides of titanium. May release flammable gases. May liberate toxic gases.

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 eye 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).

Emergency Procedures: Evacuate unnecessary personnel.

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.



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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 cellulosic material. Contact competent authorities after a spill. Use only non-sparking tools.

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. 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.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers.

Specific End Use(s)

Parapro Liquid Resin system. For professional use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

| Methyl methacrylate (80-62-6) | | |
|--------------------------------------|--------------------------------------|-----------------------|
| Mexico | OEL TWA (mg/m ³) | 410 mg/m ³ |
| Mexico | OEL TWA (ppm) | 100 ppm |
| Mexico | OEL STEL (mg/m ³) | 510 mg/m ³ |
| Mexico | OEL STEL (ppm) | 125 ppm |
| USA ACGIH | ACGIH TWA (ppm) | 50 ppm |
| USA ACGIH | ACGIH STEL (ppm) | 100 ppm |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 410 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 100 ppm |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 410 mg/m ³ |
| USA NIOSH | NIOSH REL (TWA) (ppm) | 100 ppm |
| USA IDLH | US IDLH (ppm) | 1000 ppm |
| Alberta | OEL STEL (mg/m ³) | 410 mg/m ³ |
| Alberta | OEL STEL (ppm) | 100 ppm |
| Alberta | OEL TWA (mg/m ³) | 205 mg/m ³ |
| Alberta | OEL TWA (ppm) | 50 ppm |
| British Columbia | OEL STEL (ppm) | 100 ppm |
| British Columbia | OEL TWA (ppm) | 50 ppm |
| Manitoba | OEL STEL (ppm) | 100 ppm |
| Manitoba | OEL TWA (ppm) | 50 ppm |
| New Brunswick | OEL TWA (mg/m ³) | 410 mg/m ³ |
| New Brunswick | OEL TWA (ppm) | 100 ppm |
| Newfoundland & Labrador | OEL STEL (ppm) | 100 ppm |
| Newfoundland & Labrador | OEL TWA (ppm) | 50 ppm |
| Nova Scotia | OEL STEL (ppm) | 100 ppm |
| Nova Scotia | OEL TWA (ppm) | 50 ppm |



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| | | |
|--------------------------------------|--------------------------------------|---|
| Nunavut | OEL STEL (mg/m ³) | 510 mg/m ³ |
| Nunavut | OEL STEL (ppm) | 125 ppm |
| Nunavut | OEL TWA (mg/m ³) | 410 mg/m ³ |
| Nunavut | OEL TWA (ppm) | 100 ppm |
| Northwest Territories | OEL STEL (mg/m ³) | 510 mg/m ³ |
| Northwest Territories | OEL STEL (ppm) | 125 ppm |
| Northwest Territories | OEL TWA (mg/m ³) | 410 mg/m ³ |
| Northwest Territories | OEL TWA (ppm) | 100 ppm |
| Ontario | OEL STEL (ppm) | 100 ppm |
| Ontario | OEL TWA (ppm) | 50 ppm |
| Prince Edward Island | OEL STEL (ppm) | 100 ppm |
| Prince Edward Island | OEL TWA (ppm) | 50 ppm |
| Québec | VEMP (mg/m ³) | 205 mg/m ³ |
| Québec | VEMP (ppm) | 50 ppm |
| Saskatchewan | OEL STEL (ppm) | 100 ppm |
| Saskatchewan | OEL TWA (ppm) | 50 ppm |
| Yukon | OEL STEL (mg/m ³) | 510 mg/m ³ |
| Yukon | OEL STEL (ppm) | 125 ppm |
| Yukon | OEL TWA (mg/m ³) | 410 mg/m ³ |
| Yukon | OEL TWA (ppm) | 100 ppm |
| Quartz (14808-60-7) | | |
| Mexico | OEL TWA (mg/m ³) | 0.1 mg/m ³ (respirable fraction) |
| USA ACGIH | ACGIH TWA (mg/m ³) | 0.025 mg/m ³ (respirable fraction) |
| USA OSHA | OSHA PEL (STEL) (mg/m ³) | 250 mppcf/%SiO ₂ +5, 10mg/m ³ /%SiO ₂ +2 |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 0.05 mg/m ³ (respirable dust) |
| USA IDLH | US IDLH (mg/m ³) | 50 mg/m ³ (respirable dust) |
| Alberta | OEL TWA (mg/m ³) | 0.025 mg/m ³ (respirable particulate) |
| British Columbia | OEL TWA (mg/m ³) | 0.025 mg/m ³ (respirable) |
| Manitoba | OEL TWA (mg/m ³) | 0.025 mg/m ³ (respirable fraction) |
| New Brunswick | OEL TWA (mg/m ³) | 0.1 mg/m ³ (respirable fraction) |
| Newfoundland & Labrador | OEL TWA (mg/m ³) | 0.025 mg/m ³ (respirable fraction) |
| Nova Scotia | OEL TWA (mg/m ³) | 0.025 mg/m ³ (respirable fraction) |
| Nunavut | OEL TWA (mg/m ³) | 0.1 mg/m ³ (respirable mass) |
| Northwest Territories | OEL TWA (mg/m ³) | 0.1 mg/m ³ (respirable mass) |
| Ontario | OEL TWA (mg/m ³) | 0.10 mg/m ³ (designated substances regulation-respirable) |
| Prince Edward Island | OEL TWA (mg/m ³) | 0.025 mg/m ³ (respirable fraction) |
| Québec | VEMP (mg/m ³) | 0.1 mg/m ³ (respirable dust) |
| Saskatchewan | OEL TWA (mg/m ³) | 0.05 mg/m ³ (respirable fraction) |
| Yukon | OEL TWA (mg/m ³) | 300 particle/mL |
| Titanium dioxide (13463-67-7) | | |
| Mexico | OEL TWA (mg/m ³) | 10 mg/m ³ |
| Mexico | OEL STEL (mg/m ³) | 20 mg/m ³ |
| USA ACGIH | ACGIH TWA (mg/m ³) | 10 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 15 mg/m ³ (total dust) |
| USA IDLH | US IDLH (mg/m ³) | 5000 mg/m ³ |
| Alberta | OEL TWA (mg/m ³) | 10 mg/m ³ |
| British Columbia | OEL TWA (mg/m ³) | 10 mg/m ³ (total dust) |
| Manitoba | OEL TWA (mg/m ³) | 10 mg/m ³ |
| New Brunswick | OEL TWA (mg/m ³) | 10 mg/m ³ |



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| | | |
|--------------------------------------|--------------------------------------|---|
| Newfoundland & Labrador | OEL TWA (mg/m ³) | 10 mg/m ³ |
| Nova Scotia | OEL TWA (mg/m ³) | 10 mg/m ³ |
| Nunavut | OEL TWA (mg/m ³) | 5 mg/m ³ (respirable mass) |
| Northwest Territories | OEL TWA (mg/m ³) | 5 mg/m ³ (respirable mass) |
| Ontario | OEL TWA (mg/m ³) | 10 mg/m ³ |
| Prince Edward Island | OEL TWA (mg/m ³) | 10 mg/m ³ |
| Québec | VEMP (mg/m ³) | 10 mg/m ³ (containing no Asbestos and <1% Crystalline silica-total dust) |
| Saskatchewan | OEL STEL (mg/m ³) | 20 mg/m ³ |
| Saskatchewan | OEL TWA (mg/m ³) | 10 mg/m ³ |
| Yukon | OEL STEL (mg/m ³) | 20 mg/m ³ |
| Yukon | OEL TWA (mg/m ³) | 30 mppcf |
| Silica, amorphous (7631-86-9) | | |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 6 mg/m ³ |
| USA IDLH | US IDLH (mg/m ³) | 3000 mg/m ³ |
| Nunavut | OEL TWA (mg/m ³) | 2 mg/m ³ (respirable mass) |
| Northwest Territories | OEL TWA (mg/m ³) | 2 mg/m ³ (respirable mass) |
| Yukon | OEL TWA (mg/m ³) | 300 particle/mL (as measured by Konimeter instrumentation) |

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/flammable 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

| | |
|------------------|---|
| Physical State | : Liquid |
| Appearance | : White, pebble gray, gray, beige |
| Odor | : Methyl methacrylate, Light Floral Scent |
| Odor Threshold | : Not available |
| pH | : Not available |
| Evaporation Rate | : Not available |
| Melting Point | : Not available |
| Freezing Point | : Not available |
| Boiling Point | : Not available |



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| | |
|--|---|
| Flash Point | : 10 °C (50.00 °F) |
| Auto-ignition Temperature | : Not available |
| Decomposition Temperature | : Not available |
| Flammability (solid, gas) | : Not available |
| Lower Flammable Limit | : Not available |
| Upper Flammable Limit | : Not available |
| Vapor Pressure | : > 1000 hPa @50°C (122°F) |
| Relative Vapor Density at 20 °C | : Not available |
| Relative Density | : Not available |
| Specific gravity / density | : 0.97 - 1.4 g/ml @21°C (69.8°F) |
| Specific Gravity | : Not available |
| Solubility | : Insoluble in water. |
| Partition Coefficient: N-octanol/water | : Not available |
| Viscosity | : 25- 42 dPa*s @20°C (68°F) |
| Percent VOC Content Catalyzed | Less than 50 grams per liter |
| 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.

Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Heat. Ignition sources. Incompatible materials.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers.

Hazardous Decomposition Products: Carbon oxides (CO, CO₂). May release flammable gases. Toxic gases. Nitrogen oxides. Hydrocarbons. Methyl methacrylate. Oxides of titanium.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: Harmful if swallowed.

LD50 and LC50 Data:

| | |
|--|---------------------------|
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| ATE US (oral) | 1749.78 mg/kg body weight |

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: May cause genetic defects.

Teratogenicity: Not available

Carcinogenicity: May cause cancer.

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. May cause drowsiness or dizziness.

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: May cause respiratory irritation. Exposure may produce an allergic reaction. May cause drowsiness or dizziness.



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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: Swallowing a small quantity of this material will result in serious health hazard.

Chronic Symptoms: May damage fertility. May damage the unborn child. May cause heritable genetic damage. May cause cancer.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

| | |
|---|--------------------------|
| Methyl methacrylate (80-62-6) | |
| LD50 Oral Rat | 7900 mg/kg |
| LC50 Inhalation Rat | 4632 ppm/4h |
| 2-Ethylhexyl acrylate (103-11-7) | |
| LD50 Oral Rat | 4435 mg/kg |
| LD50 Dermal Rabbit | 7522 mg/kg |
| Quartz (14808-60-7) | |
| LD50 Oral Rat | > 5000 mg/kg |
| LD50 Dermal Rat | > 5000 mg/kg |
| Titanium dioxide (13463-67-7) | |
| LD50 Oral Rat | > 10000 mg/kg |
| Naphtha, petroleum, hydrodesulfurized heavy (64742-82-1) | |
| LD50 Oral Rat | > 5000 mg/kg |
| LD50 Dermal Rabbit | > 3160 mg/kg |
| Solvent naphtha, petroleum, light aromatic (64742-95-6) | |
| LD50 Dermal Rabbit | > 2000 mg/kg |
| LC50 Inhalation Rat | 3400 ppm/4h |
| ATE US (gases) | 3,400.00 ppmV/4h |
| Methyl methacrylate (80-62-6) | |
| IARC Group | 3 |
| 2-Ethylhexyl acrylate (103-11-7) | |
| IARC Group | 3 |
| Quartz (14808-60-7) | |
| IARC Group | 1 |
| National Toxicity Program (NTP) Status | Known Human Carcinogens. |
| Titanium dioxide (13463-67-7) | |
| IARC Group | 2B |

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology - General: Harmful to aquatic life with long lasting effects.

| | |
|---|--|
| Methyl methacrylate (80-62-6) | |
| LC50 Fish 1 | 243 - 275 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1 | 69 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| LC 50 Fish 2 | 125.5 - 190.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| 2-Ethylhexyl acrylate (103-11-7) | |
| EC50 Daphnia 1 | 17.45 mg/l (Exposure time: 48 h - Species: Daphnia magna) |



**Parapro Roof Membrane Resin (Gray, White); Parapro Flashing (Gray, White);
Terapro Base Resin; Terapro Flashing Resin; Terapro VTS Resin;
Terapro Wearing Layer; Paracoat (Gray, White, Sand); Paracoat HS**

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| | |
|--|--|
| Solvent naphtha, petroleum, light aromatic (64742-95-6) | |
| LC50 Fish 1 | 9.22 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) |
| EC50 Daphnia 1 | 6.14 mg/l (Exposure time: 48 h - Species: Daphnia magna) |

Persistence and Degradability Not available

Bioaccumulative Potential

Parapro Roof Membrane Resin (Gray, White); Paracoat; Terapro Base Resin; Terapro Flashing Resin; Terapro VTS Resin; Terapro Wearing Layer; Parapro Flashing (Gray, White); Paracoat Sand (Gray, White)

| | |
|----------------------------------|------------------|
| Bioaccumulative Potential | Not established. |
|----------------------------------|------------------|

Methyl methacrylate (80-62-6)

| | |
|----------------|-----|
| Log Pow | 0.7 |
|----------------|-----|

2-Ethylhexyl acrylate (103-11-7)

| | |
|----------------|-----------------|
| Log Pow | 4.64 (at 25 °C) |
|----------------|-----------------|

Mobility in Soil Not available

Other Adverse Effects

Other Information: 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
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



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





**Parapro Roof Membrane Resin (Gray, White); Parapro Flashing (Gray, White);
Terapro Base Resin; Terapro Flashing Resin; Terapro VTS Resin;
Terapro Wearing Layer; Paracoat (Gray, White, Sand); Paracoat HS**

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SECTION 15: REGULATORY INFORMATION

US Federal Regulations

Parapro Roof Membrane Resin (Gray, White); Paracoat; Terapro Base Resin; Terapro Flashing Resin; Terapro VTS Resin; Terapro Wearing Layer; Parapro Flashing (Gray, White); Paracoat Sand (Gray, White)

| | |
|--|---|
| SARA Section 311/312 Hazard Classes | Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard |
|--|---|

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

Quartz (14808-60-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Titanium dioxide (13463-67-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Naphtha, petroleum, hydrodesulfurized heavy (64742-82-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Solvent naphtha, petroleum, light aromatic (64742-95-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

US State Regulations

Quartz (14808-60-7)

| | |
|--|--|
| U.S. - California - Proposition 65 - Carcinogens List | WARNING: This product contains chemicals known to the State of California to cause cancer. |
|--|--|

Titanium dioxide (13463-67-7)

| | |
|--|--|
| U.S. - California - Proposition 65 - Carcinogens List | WARNING: This product contains chemicals known to the State of California to cause cancer. |
|--|--|

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



**Parapro Roof Membrane Resin (Gray, White); Parapro Flashing (Gray, White);
Terapro Base Resin; Terapro Flashing Resin; Terapro VTS Resin;
Terapro Wearing Layer; Paracoat (Gray, White, Sand); Paracoat HS**

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- 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
- RTK - U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
- RTK - U.S. - Pennsylvania - RTK (Right to Know) List
- U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - 24-Hour
- U.S. - South Carolina - Toxic Air Pollutants - Maximum Allowable Concentrations
- U.S. - South Carolina - Toxic Air Pollutants - Pollutant Categories
- U.S. - Tennessee - Occupational Exposure Limits - TWAs
- U.S. - Texas - Effects Screening Levels - Long Term
- U.S. - Texas - Effects Screening Levels - Short Term
- U.S. - Vermont - Hazardous Waste - Hazardous Constituents
- U.S. - Vermont - Permissible Exposure Limits - TWAs
- U.S. - Washington - Dangerous Waste - Dangerous Waste Constituents List
- U.S. - Washington - Dangerous Waste - Discarded Chemical Products List
- U.S. - Washington - Permissible Exposure Limits - STELs
- U.S. - Washington - Permissible Exposure Limits - TWAs
- U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet
- U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet
- U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater
- U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet

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
- RTK - U.S. - Massachusetts - Right To Know 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

Quartz (14808-60-7)

- U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations



**Parapro Roof Membrane Resin (Gray, White); Parapro Flashing (Gray, White);
Terapro Base Resin; Terapro Flashing Resin; Terapro VTS Resin;
Terapro Wearing Layer; Paracoat (Gray, White, Sand); Paracoat HS**

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U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)
U.S. - Idaho - Occupational Exposure Limits - Mineral Dusts
U.S. - Illinois - Toxic Air Contaminant Carcinogens
U.S. - Illinois - Toxic Air Contaminants
U.S. - Maine - Chemicals of High Concern
RTK - U.S. - Massachusetts - Right To Know List
U.S. - Michigan - Occupational Exposure Limits - TWAs
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
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 - Mineral Dusts
U.S. - New York - Occupational Exposure Limits - TWAs
U.S. - Oregon - Permissible Exposure Limits - Mineral Dusts
RTK - U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Tennessee - Occupational Exposure Limits - TWAs
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term
U.S. - Vermont - Permissible Exposure Limits - TWAs
U.S. - Washington - Permissible Exposure Limits - STELs
U.S. - Washington - Permissible Exposure Limits - TWAs

Titanium dioxide (13463-67-7)

U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)
U.S. - Idaho - Occupational Exposure Limits - TWAs
U.S. - Illinois - Toxic Air Contaminant Carcinogens
RTK - U.S. - Massachusetts - Right To Know List
U.S. - Michigan - Occupational Exposure Limits - TWAs
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
RTK - 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
RTK - U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Tennessee - Occupational Exposure Limits - TWAs
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term
U.S. - Vermont - Permissible Exposure Limits - TWAs
U.S. - Washington - Permissible Exposure Limits - STELs
U.S. - Washington - Permissible Exposure Limits - TWAs

Naphtha, petroleum, hydrodesulfurized heavy (64742-82-1)

U.S. - Maine - Chemicals of High Concern
U.S. - Minnesota - Chemicals of High Concern
U.S. - Minnesota - Chemicals of High Concern - Persistent Bioaccumulative Toxins





**Parapro Roof Membrane Resin (Gray, White); Parapro Flashing (Gray, White);
Terapro Base Resin; Terapro Flashing Resin; Terapro VTS Resin;
Terapro Wearing Layer; Paracoat (Gray, White, Sand); Paracoat HS**

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

| |
|--|
| Solvent naphtha, petroleum, light aromatic (64742-95-6) |
| U.S. - Texas - Effects Screening Levels - Long Term |
| U.S. - Texas - Effects Screening Levels - Short Term |

Canadian Regulations

| | |
|--|--|
| Parapro Roof Membrane Resin (Gray, White); Paracoat; Terapro Base Resin; Terapro Flashing Resin; Terapro VTS Resin; Terapro Wearing Layer; Parapro Flashing (Gray, White); Paracoat Sand (Gray, White) | |
| 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 |
|   | |

| | |
|---|--|
| Methyl methacrylate (80-62-6) | |
| Listed on the Canadian DSL (Domestic Substances 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 |

| | |
|---|--|
| 2-Ethylhexyl acrylate (103-11-7) | |
| Listed on the Canadian DSL (Domestic Substances 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 |

| | |
|---|--|
| Quartz (14808-60-7) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| Listed on the Canadian IDL (Ingredient Disclosure List) | |
| IDL Concentration 1 % | |
| WHMIS Classification | Class D Division 2 Subdivision A - Very toxic material causing other toxic effects |

| | |
|---|--|
| Titanium dioxide (13463-67-7) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| WHMIS Classification | Class D Division 2 Subdivision A - Very toxic material causing other toxic effects |

| | |
|---|--|
| Naphtha, petroleum, hydrodesulfurized heavy (64742-82-1) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| WHMIS Classification | 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 Class B Division 2 - Flammable Liquid |

| | |
|--|--|
| Solvent naphtha, petroleum, light aromatic (64742-95-6) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| WHMIS Classification | Class B Division 3 - Combustible Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects |



**Parapro Roof Membrane Resin (Gray, White); Parapro Flashing (Gray, White);
Terapro Base Resin; Terapro Flashing Resin; Terapro VTS Resin;
Terapro Wearing Layer; Paracoat (Gray, White, Sand); Paracoat HS**

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Fatty acids, C18, unsaturated, dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine (162627-17-0)

WHMIS Classification | Class D Division 2 Subdivision B - Toxic material causing other toxic effects

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 : 09/27/2017

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:

| | |
|----------------------------------|--|
| Acute Tox. 3 (Oral) | Acute toxicity (oral) Category 3 |
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal) Category 4 |
| Acute Tox. 4 (Inhalation:vapour) | Acute toxicity (inhalation:vapour) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment - Acute Hazard Category 1 |
| Aquatic Acute 2 | Hazardous to the aquatic environment - Acute Hazard Category 2 |
| Aquatic Acute 3 | Hazardous to the aquatic environment - Acute Hazard Category 3 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment - Chronic Hazard Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment - Chronic Hazard Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment - Chronic Hazard Category 3 |
| Asp. Tox. 1 | Aspiration hazard Category 1 |
| Carc. 1A | Carcinogenicity Category 1A |
| Carc. 1B | Carcinogenicity Category 1B |
| Carc. 2 | Carcinogenicity Category 2 |
| Comb. Dust | Combustible Dust |
| Eye Irrit. 2A | Serious eye damage/eye irritation Category 2A |
| Eye Irrit. 2B | Serious eye damage/eye irritation Category 2B |
| Flam. Liq. 1 | Flammable liquids Category 1 |
| Flam. Liq. 2 | Flammable liquids Category 2 |
| Flam. Liq. 3 | Flammable liquids Category 3 |
| Flam. Liq. 4 | Flammable liquids Category 4 |
| Muta. 1B | Germ cell mutagenicity Category 1B |
| Repr. 2 | Reproductive toxicity Category 2 |
| Resp. Sens. 1 | Respiratory sensitisation Category 1 |
| Skin Irrit. 2 | Skin corrosion/irritation Category 2 |
| Skin Sens. 1 | Skin sensitization Category 1 |
| STOT RE 1 | Specific target organ toxicity (repeated exposure) Category 1 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| H224 | Extremely flammable liquid and vapor |
| H225 | Highly flammable liquid and vapor |
| H226 | Flammable liquid and vapor |
| H227 | Combustible liquid |
| | May form combustible dust concentrations in air |
| H301 | Toxic if swallowed |
| H302 | Harmful if swallowed |



**Parapro Roof Membrane Resin (Gray, White); Parapro Flashing (Gray, White);
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| | |
|------|---|
| H304 | May be fatal if swallowed and enters airways |
| H312 | Harmful in contact with skin |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H319 | Causes serious eye irritation |
| H320 | Causes eye irritation |
| H332 | Harmful if inhaled |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled |
| H335 | May cause respiratory irritation |
| H336 | May cause drowsiness or dizziness |
| H340 | May cause genetic defects |
| H350 | May cause cancer |
| H351 | Suspected of causing cancer |
| H361 | Suspected of damaging fertility or the unborn child |
| H372 | Causes damage to organs through prolonged or repeated exposure |
| H400 | Very toxic to aquatic life |
| H401 | Toxic to aquatic life |
| H402 | Harmful to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |
| H411 | Toxic to aquatic life with long lasting effects |
| H412 | Harmful to aquatic life with long lasting effects |

Party Responsible for the Preparation of This Document

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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

SECTION 1. IDENTIFICATION

Product name : **PRO CATALYST LIQUID**

Manufacturer or distributor's details

Company name of distributor : Siplast

Address : 1000 Rochelle Blvd.
Irving, TX 75062

Emergency telephone : CHEMTREC: North America 1-800-424-9300
International 1-800-527-3887

E-mail address of person responsible for the SDS : tfranks@siplast.com

Recommended use of the chemical and restrictions on use

Recommended use : Curing chemical
polymerization initiators
Pharmaceutical

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Organic peroxides : Type E

Eye irritation : Category 2A

Skin sensitization : Category 1

Acute aquatic toxicity : Category 1

Chronic aquatic toxicity : Category 2

GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H242 Heating may cause a fire.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**
P210 Keep away from heat/sparks/open flames/hot surfaces.
No smoking.
P220 Keep/Store away from clothing/ strong acids, bases, heavy metal salts and other reducing substances /combustible materials.
P234 Keep only in original container.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash skin 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/ face protection.

Response:
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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.
P391 Collect spillage.

Storage:
P410 **Protect from sunlight.**
P411 + P235 **Store at temperatures not exceeding 30 °C/ 86 °F. Keep cool.**
P420 **Store away from other materials.**

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture
Chemical nature : Organic Peroxide
Liquid mixture

Hazardous ingredients

| Chemical name | CAS-No. | Concentration (% w/w) |
|--|------------|-----------------------|
| Dibenzoyl peroxide | 94-36-0 | >= 35 - < 40 |
| Zinc stearate | 557-05-1 | >= 1 - < 5 |
| Alcohols, C12-15, ethoxylated propoxylated | 68551-13-3 | >= 0.1 - < 1 |

SECTION 4. FIRST AID MEASURES

| | |
|---|--|
| General advice | : Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Do not leave the victim unattended. Call a physician immediately. |
| If inhaled | : If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician. If breathed in, move person into fresh air. |
| In case of skin contact | : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before re-use. If on skin, rinse well with water. If on clothes, remove clothes. If symptoms persist, call a physician. |
| In case of eye contact | : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. |
| If swallowed | : Keep respiratory tract clear. Call a physician immediately. Rinse mouth thoroughly with water. |
| Most important symptoms and effects, both acute and delayed | : May cause an allergic skin reaction. Causes serious eye irritation. |
| Protection of first-aiders | : First Aid responders should pay attention to self-protection and use the recommended protective clothing |
| Notes to physician | : Treat symptomatically and supportively. |

SECTION 5. FIRE-FIGHTING MEASURES

| | |
|--------------------------------|--|
| Suitable extinguishing media | : Water spray Alcohol-resistant foam Carbon dioxide (CO ₂) Dry chemical |
| Unsuitable extinguishing media | : High volume water jet |

| | |
|--|---|
| Specific hazards during fire fighting | : Contact with incompatible materials or exposure to temperatures exceeding SADT may result in a self-accelerating decomposition reaction with release of flammable vapors which may auto-ignite. Flash back possible over considerable distance. Vapors may form explosive mixtures with air. The product will float on water and can be reignited on surface water. Cool closed containers exposed to fire with water spray |
| Specific extinguishing methods | : Do not use a solid water stream as it may scatter and spread fire. Remove undamaged containers from fire area if it is safe to do so. Use water spray to cool unopened containers. |
| Further information | : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Special protective equipment for fire-fighters | : Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment. Remove all sources of ignition. Follow safe handling advice and personal protective equipment recommendations. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Never return spills in original containers for re-use. Treat recovered material as described in the section "Disposal considerations". |
| Environmental precautions | : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. |

Methods and materials for containment and cleaning up : Contact with incompatible substances can cause decomposition at or below SADT.
Clear spills immediately.
Suppress (knock down) gases/vapors/mists with a water spray jet.
To clean the floor and all objects contaminated by this material, use plenty of water.
Soak up with inert absorbent material.
Isolate waste and do not reuse.
Non-sparking tools should be used.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

SECTION 7. HANDLING AND STORAGE

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Advice on protection against fire and explosion : Keep away from heat and sources of ignition. Use only explosion-proof equipment. Keep away from combustible material.

Advice on safe handling : Do not swallow.
Do not breathe vapors/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
Avoid formation of aerosol.
Take precautionary measures against static discharges.
Never return any product to the container from which it was originally removed.
Provide sufficient air exchange and/or exhaust in work rooms.
Avoid confinement.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Smoking, eating and drinking should be prohibited in the application area.
Wash thoroughly after handling.
For personal protection see section 8.
Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Protect from contamination.

- Conditions for safe storage : Avoid impurities (e.g. rust, dust, ash), risk of decomposition. Electrical installations / working materials must comply with the technological safety standards. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Store in accordance with the particular national regulations.
- Materials to avoid : Keep away from strong acids, bases, heavy metal salts and other reducing substances.
- Recommended storage temperature : 0 - 30 °C
32 - 86 °F

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

| Ingredients | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|--------------------|----------|--------------------------------|--|-----------|
| Dibenzoyl peroxide | 94-36-0 | TWA | 5 mg/m ³ | ACGIH |
| | | TWA | 5 mg/m ³ | NIOSH REL |
| | | TWA | 5 mg/m ³ | OSHA Z-1 |
| | | TWA | 5 mg/m ³ | OSHA P0 |
| Zinc stearate | 557-05-1 | TWA (Respirable) | 5 mg/m ³ | NIOSH REL |
| | | TWA (total) | 10 mg/m ³ | NIOSH REL |
| | | TWA (total dust) | 15 mg/m ³ | OSHA Z-1 |
| | | TWA (respirable fraction) | 5 mg/m ³ | OSHA Z-1 |
| | | TWA (Total dust) | 10 mg/m ³ | OSHA P0 |
| | | TWA (respirable dust fraction) | 5 mg/m ³ | OSHA P0 |
| | | TWA | 10 mg/m ³ | ACGIH |

Hazardous components without workplace control parameters

| Ingredients | CAS-No. |
|--|------------|
| Alcohols, C12-15, ethoxylated propoxylated | 68551-13-3 |

Engineering measures : Minimize workplace exposure concentrations.

Personal protective equipment

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.

Filter type : ABEK-filter



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| | | |
|--------------------------|---|--|
| Hand protection | : | |
| Material | : | butyl-rubber |
| Break through time | : | >= 480 min |
| Glove thickness | : | 0.5 mm |
| Remarks | : | Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove Wash hands before breaks and at the end of workday. |
| Eye protection | : | Tightly fitting safety goggles Please wear suitable protective goggles. Also wear face protection if there is a splash hazard. Ensure that eyewash stations and safety showers are close to the workstation location. |
| Skin and body protection | : | Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. |
| Hygiene measures | : | Keep away from food and drink. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product. |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|-----------------------------|---|--|
| Appearance | : | suspension |
| Color | : | white |
| Odor | : | characteristic |
| pH | : | Not applicable |
| Melting point/range | : | No data available |
| Boiling point/boiling range | : | Decomposition: Decomposes below the boiling point. |
| Flash point | : | Not applicable |
| Evaporation rate | : | Not applicable |
| Flammability (solid, gas) | : | does not ignite |
| Self-ignition | : | |
| Upper explosion limit | : | Not applicable |
| Lower explosion limit | : | Not applicable |
| Vapor pressure | : | Not applicable |

| | | |
|--|---|---|
| Density | : | 1.2 g/cm ³ (25 °C) |
| Solubility(ies) Water solubility | : | insoluble |
| Partition coefficient: n-octanol/water | : | Not applicable |
| Self-Accelerating decomposition temperature (SADT) | : | 50 °C SADT-Self Accelerating Decomposition Temperature. Lowest temperature at which the tested package size will undergo a self-accelerating decomposition reaction. |
| Viscosity Viscosity, dynamic | : | 1 mPa.s |
| Viscosity, kinematic | : | Not applicable |
| Explosive properties | : | Not explosive |
| Oxidizing properties | : | The substance or mixture is not classified as oxidizing. Organic peroxide |

SECTION 10. STABILITY AND REACTIVITY

| | | |
|------------------------------------|---|---|
| Reactivity | : | Stable under recommended storage conditions. |
| Chemical stability | : | Stable under recommended storage conditions. |
| Possibility of hazardous reactions | : | Vapors may form explosive mixture with air. |
| Conditions to avoid | : | Protect from contamination. Contact with incompatible substances can cause decomposition at or below SADT. Heat, flames and sparks. Avoid confinement. |
| Incompatible materials | : | Accelerators, strong acids and bases, heavy metals and heavy metal salts, reducing agents |

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Not classified based on available information.

Product:

| | | |
|-----------------------|---|--|
| Acute oral toxicity | : | Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method |
| Acute dermal toxicity | : | Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method |

Ingredients:**Dibenzoyl peroxide:**

- Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 401
Assessment: The substance or mixture has no acute oral toxicity
- Acute inhalation toxicity : LC50 (Rat): 24.3 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute inhalation toxicity
- Acute dermal toxicity : Method: Expert judgment
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Based on data from similar materials

Zinc stearate:

- Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 401
- Acute inhalation toxicity : LC50 (Rat): > 200 mg/l
Exposure time: 1 h
Test atmosphere: dust/mist
- Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Alcohols, C12-15, ethoxylated propoxylated:

- Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
- Acute inhalation toxicity : Remarks: No data available
- Acute dermal toxicity : Remarks: No data available

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks: May cause skin irritation and/or dermatitis.

Ingredients:**Dibenzoyl peroxide:**

Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation

Zinc stearate:

Species: Rabbit
Method: Draize Test
Result: No skin irritation

Alcohols, C12-15, ethoxylated propoxylated:

Species: Rabbit
Method: OECD Test Guideline 404
Result: Mild skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks: May cause irreversible eye damage.

Ingredients:**Dibenzoyl peroxide:**

Species: Rabbit
Result: Eye irritation
Method: OECD Test Guideline 405

Zinc stearate:

Species: Rabbit
Result: No eye irritation
Method: Draize Test

Alcohols, C12-15, ethoxylated propoxylated:

Species: Rabbit
Result: Risk of serious damage to eyes.

Respiratory or skin sensitization**Skin sensitization**

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Product:

Remarks: Causes sensitization.

Ingredients:**Dibenzoyl peroxide:**

Species: Mouse
Method: OECD Test Guideline 429
Result: May cause sensitization by skin contact.

Zinc stearate:

Routes of exposure: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Does not cause skin sensitization.

Remarks: Information given is based on data obtained from similar substances.

Alcohols, C12-15, ethoxylated propoxylated:

Test Type: Buehler Test

Species: Guinea pig

Result: Does not cause skin sensitization.

Germ cell mutagenicity

Not classified based on available information.

Ingredients:**Dibenzoyl peroxide:**Genotoxicity in vitro : Method: OECD Test Guideline 471
Result: negative: Method: OECD Test Guideline 476
Result: negativeGenotoxicity in vivo : Test Type: dominant lethal test
Species: Mouse
Result: negative**Zinc stearate:**Genotoxicity in vitro : Method: OECD Test Guideline 471
Result: negative
Remarks: Information given is based on data obtained from similar substances.Genotoxicity in vivo : Test Type: Chromosomal aberration
Species: Rat
Result: Equivocal**Alcohols, C12-15, ethoxylated propoxylated:**

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

Carcinogenicity

Not classified based on available information.

Ingredients:**Dibenzoyl peroxide:**

Remarks: negative



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| | |
|-------------|--|
| IARC | No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. |
| OSHA | No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. |
| NTP | No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. |

Reproductive toxicity

Not classified based on available information.

Ingredients:

Dibenzoyl peroxide:

Effects on fertility : Species: Rat
Application Route: Oral
Fertility: NOAEL: > 1,000 mg/kg body weight
Method: OECD Test Guideline 422
Result: No effects on fertility.

Zinc stearate:

Effects on fertility : Species: Rat
Application Route: oral (gavage)
General Toxicity F1: NOAEL: 7.5 mg/kg body weight
Method: OECD Test Guideline 416
Remarks: Based on data from similar materials

Effects on fetal development : Species: Mouse
Application Route: oral (gavage)
General Toxicity Maternal: NOAEL: 30 mg/kg body weight
Teratogenicity: NOAEL: 30 mg/kg body weight
Remarks: Based on data from similar materials

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Ingredients:

Dibenzoyl peroxide:

Species: Rat
NOAEL: 1,000 mg/kg
Application Route: Oral
Exposure time: 28 d
Method: OECD Test Guideline 422

Zinc stearate:

Species: Mouse
NOAEL: 458 mg/kg
Application Route: Oral
Method: OECD Test Guideline 408

Aspiration toxicity

Not classified based on available information.

Further information**Product:**

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Ingredients:****Dibenzoyl peroxide:**

| | | |
|---|---|---|
| Toxicity to fish | : | EC50 (Oncorhynchus mykiss (rainbow trout)): 0.0602 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 |
| | | NOEC (Oncorhynchus mykiss (rainbow trout)): 0.0316 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 0.11 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 |
| | | NOEC (Daphnia magna (Water flea)): 0.077 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 |
| Toxicity to algae | : | EC50 (Pseudokirchneriella subcapitata (green algae)): 0.0711 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 |
| | | NOEC (Pseudokirchneriella subcapitata (green algae)): 0.02 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 |
| M-Factor (Acute aquatic toxicity) | : | 10 |
| Toxicity to microorganisms | : | EC50 (Bacteria): 35 mg/l Exposure time: 0.5 h |

Ecotoxicology Assessment

- Acute aquatic toxicity : Very toxic to aquatic life.
- Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Zinc stearate:

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 10,000 mg/l
Exposure time: 96 h
Method: Directive 67/548/EEC, Annex V, C.1.
- Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
- Toxicity to algae : EL50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
- Toxicity to microorganisms : NOEC (Pseudomonas putida): 1,000 mg/l
Exposure time: 0.5 h
Method: DIN 38 412 Part 8

Alcohols, C12-15, ethoxylated propoxylated:

- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1 - 10 mg/l
Exposure time: 48 h

Persistence and degradability**Ingredients:****Dibenzoyl peroxide:**

- Biodegradability : Result: Biodegradable
Method: OECD Test Guideline 301D

Zinc stearate:

- Biodegradability : Result: Readily biodegradable.
Method: OECD Test Guideline 301D

Alcohols, C12-15, ethoxylated propoxylated:

- Biodegradability : Result: Readily biodegradable.
Method: OECD Test Guideline 303

Bioaccumulative potential**Ingredients:****Dibenzoyl peroxide:**

- Partition coefficient: n-octanol/water : log Pow: 3.2 (20 °C)



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Zinc stearate:

Partition coefficient: n-octanol/water : Remarks: No data available

Alcohols, C12-15, ethoxylated propoxylated:

Partition coefficient: n-octanol/water : log Pow: 4.5

Mobility in soil

No data available

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : **An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.**
Very toxic to aquatic life.
Toxic to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Dispose of wastes in an approved waste disposal facility.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.
Dispose of in accordance with local regulations.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : UN 3107
Proper shipping name : ORGANIC PEROXIDE TYPE E, LIQUID (DIBENZOYL PEROXIDE)
Class : 5.2
Packing group : Not assigned by regulation



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Labels : 5.2

IATA-DGR

UN/ID No. : UN 3107
Proper shipping name : Organic peroxide type E, liquid
(Dibenzoyl peroxide)
Class : 5.2
Packing group : Not assigned by regulation
Labels : Organic Peroxides, Keep Away From Heat
Packing instruction (cargo : 570
aircraft)
Packing instruction (passen- : 570
ger aircraft)

IMDG-Code

UN number : UN 3107
Proper shipping name : ORGANIC PEROXIDE TYPE E, LIQUID
(DIBENZOYL PEROXIDE)
Class : 5.2
Packing group : Not assigned by regulation
Labels : 5.2
EmS Code : F-J, S-R
Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR

UN/ID/NA number : UN 3107
Proper shipping name : Organic peroxide type E, liquid
(Dibenzoyl peroxide, <=42%)
Class : 5.2
Packing group : Not assigned by regulation
Labels : ORGANIC PEROXIDE
ERG Code : 145
Marine pollutant : yes

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Reactivity Hazard
Acute Health Hazard

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).



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This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

| | | |
|---------------|----------|-------|
| Zinc stearate | 557-05-1 | 1.5 % |
|---------------|----------|-------|

California Prop. 65 This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:

| | | |
|------------|---|---|
| AICS (AU) | : | On the inventory, or in compliance with the inventory |
| NZIoC (NZ) | : | On the inventory, or in compliance with the inventory |
| KECI (KR) | : | On the inventory, or in compliance with the inventory |
| IECSC (CN) | : | On the inventory, or in compliance with the inventory |
| TCSI (TW) | : | On the inventory, or in compliance with the inventory |
| TSCA (US) | : | On TSCA Inventory |

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

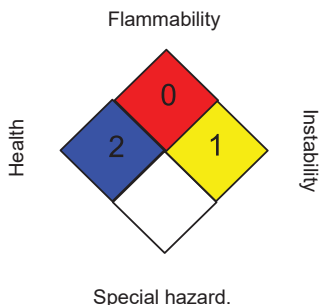
AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association;

IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable

Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

NFPA:



HMIS® IV:

| | | |
|-----------------|---|---|
| HEALTH | / | 2 |
| FLAMMABILITY | | 0 |
| PHYSICAL HAZARD | | 1 |

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. For the first box in the Health rating a "/" indicates no chronic health risks and a "*" indicates chronic hazards exist.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and re-lease and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

PRO CATALYST LIQUID



Commercial Product Data Sheet

Product Description

Pro Catalyst Liquid is a reactive agent used to induce curing of Terapro, Parapro and Pro Resins. Pro Catalyst Liquid is supplied as a high viscosity liquid.

Packaging

Pro Catalyst Liquid is supplied in a 2.5-kilogram plastic container that is packaged in a box with a collapsible silicone measuring cup and a plastic tablespoon to facilitate accurate measurement.

Storage

Pro Catalyst Liquid should be stored in its original packaging at all times until just prior to use. Always store in a cool and dry location. Do not store in direct sunlight or in temperatures below 32°F (0°C) or above 77°F (25°C).

Materials stored on the project site during application should be kept on a pallet in a shaded well-ventilated area. In unshaded areas, materials should be covered with a white, reflective tarp in a manner that allows for air circulation beneath the tarp.

Pro Catalyst Liquid is stable if stored and used in accordance with Siplast guidelines. Pro Catalyst Liquid is heat sensitive and should be stored under controlled conditions to ensure that the reactivity/effectiveness is not compromised as well as for safety reasons. Pro Catalyst Liquid should not be exposed to temperatures in excess of 122°F (50°C). Product exposed to temperatures in excess of 122°F (50°C) may experience hazardous self-accelerating decomposition. Self-accelerated decomposition is signaled by the presence of bright white smoke and the process can generate high temperatures, depending on the environmental conditions and quantity of product.

The shelf life of Pro Catalyst Liquid is 6 months from the ship date. A use-by date is listed on each box. Shelf life is reduced if product is stored at temperatures exceeding 77°F (25°C). Pro Catalyst Liquid should not be used if the shelf life is expired. Contact Siplast for disposal requirements of expired material.

Handling

Keep Pro Catalyst Liquid away from, fire, flame, and ignition sources. Avoid skin and eye contact. Do not eat, drink or smoke when handling or applying Pro Catalyst Liquid. Consult the Safety Data Sheet (SDS) at www.siplast.com for additional information pertaining to handling this product.

Personal Protection Equipment (PPE)

Workers must use butyl or nitrile gloves when mixing Pro Catalyst Liquid. Safety goggles are required for eye protection. Consult the Safety Data Sheet (SDS) at www.siplast.com for additional information pertaining to personal protection equipment (PPE).

Mixing & Catalyzing Procedures

Thoroughly mix the entire drum of resin for 2-3 minutes before each use, and prior to pouring off resin into a second container if batch mixing. Add pre-measured Pro Catalyst Liquid to the resin component, and stir for 2 minutes using a slow-speed mechanical agitator or mixing stick.

The amount of Pro Catalyst Liquid added to Parapro, Terapro, and Pro Resins is based on the weight of the resin used and varies with the ambient or substrate temperature. Refer to the Siplast Pro Catalyst Liquid & Powder Mixing Charts or individual resin product data sheets for mixing charts for the specific resin to be catalyzed. Catalyze only the amount of material that can be used within the resin's pot life.

Please note that Pro Mortar requires the use of Pro Catalyst Powder and should not be used with Pro Catalyst Liquid.

Mass and Volume Data for Pro Catalyst Liquid

| Pro Catalyst Liquid – Net Contents Per Container | | | |
|--|-----------------------------------|--|---------|
| 2.5 kilograms | 2.25 liters | 2250 milliliters | 10 cups |
| Density (kg per liter) | Liquid Measure (liters per kg) | Liquid Measure (milliliters per kg) | |
| 1.1 kilograms per liter | 0.91 liters per kg | 910 milliliters per kg | |

Rev 8/2018

PRO FLEECE



Commercial Product Data Sheet

Product Description

Pro Fleece is a non-woven, needle-punched polyester fabric reinforcement specially designed for compatibility with Parapro, Terapro, and Paraflex liquid products.

Product Uses

Pro Fleece is used as a fabric reinforcement in Parapro Flashing Systems, Parapro Roof Membrane Systems, Terapro Flashing Systems, Terapro Waterproofing and Surfacing Systems, Terapro VTS Waterproofing and Surfacing Systems, Paraflex 531 Liquid Flashings, and Paraflex Liquid Membranes.

Packaging

Pro Fleece is packaged in the following roll dimensions:

| WIDTH | LENGTH |
|-----------------|-------------------|
| 12 in (305 mm) | 82 ft (25 meter) |
| 12 in (305 mm) | 164 ft (50 meter) |
| 25 in (630 mm) | 164 ft (50 meter) |
| 41 in (1050 mm) | 164 ft (50 meter) |

Color and Identification Markings

Pro Fleece is a white non-woven fabric.

- The 41 in x 164 ft (1050 mm x 50 m) (1050 mm) fleece has red logo printing and side lap lines.
- The 25 in x 164 ft (630 mm x 50 m) fleece has red logo printing.
- The 12 in x 164 feet (305 mm x 50 m) fleece has red logo printing.
- The 12 in x 82 ft (305 mm x 25 m) has no logo or other printed markings.

Storage

Always store in cool and dry location. Store flat to avoid deforming rolls and creasing fabric. Shelf life is indefinite with proper storage.

Fleece Properties

| Physical & Mechanical Properties | Pro Fleece (unsaturated) |
|----------------------------------|--------------------------|
| Color | White |
| Nominal Thickness | 40 mils |
| Weight (g/m ²) | 110 |
| Water Absorption | <1% |

Current copies of all Siplast Commercial Product Data Sheets are posted on the Siplast Web site at www.Siplast.com.

Rev 2/2018

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture

Product Name: Pro Paste, Pro Matrix

Intended Use of the Product

Use of the Substance/Mixture: Parapro Liquid Resin system. For professional use only.

Name, Address, and Telephone of the Responsible Party

Company

Siplast, Inc.
1000 Rochelle Blvd
Irving, TX 75062
T 800-922-8800

www.siplast.com

Manufacturer

Siplast, Inc.
35 McClellan Blvd
Arkadelphia, AR 71923
T 870-246-9000

Emergency Telephone Number

Emergency Number : 800-424-9300 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US)

| | |
|---------------------|------|
| Flam. Liq. 2 | H225 |
| Acute Tox. 4 (Oral) | H302 |
| Skin Irrit. 2 | H315 |
| Eye Irrit. 2A | H319 |
| Resp. Sens. 1 | H334 |
| Skin Sens. 1 | H317 |
| Muta. 1B | H340 |
| Carc. 1B | H350 |
| Carc. 2 | H351 |
| Repr. 1B | H360 |
| STOT SE 3 | H335 |
| STOT SE 3 | H336 |
| Aquatic Acute 3 | H402 |
| Aquatic Chronic 3 | H412 |

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US)

: Danger

Hazard Statements (GHS-US)

: H225 - Highly flammable liquid and vapor.
 H302 - Harmful if swallowed.
 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.
 H336 - May cause drowsiness or dizziness.
 H340 - May cause genetic defects.
 H350 - May cause cancer.

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- Precautionary Statements (GHS-US)** :
- H351 – Suspected of causing cancer.
 - H360 - May damage fertility or the unborn child.
 - H402 - Harmful to aquatic life.
 - H412 - Harmful to aquatic life with long lasting effects.
 - 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.
 - P260 - Do not breathe vapors, mist, spray.
 - P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
 - P270 - Do not eat, drink or smoke when using this product.
 - 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.
 - P301+P312 - If swallowed: Call a poison center/doctor if you feel unwell.
 - 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.
 - P321 - Specific treatment (see section 4).
 - P330 - Rinse mouth.
 - 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+P364 - Take off contaminated clothing and wash it before reuse.
 - P370+P378 - In case of fire: Use appropriate media to extinguish.
 - P403+P233+ P235 - Store in a well-ventilated place. Keep container tightly closed. Keep cool.
 - P405 - Store locked up.
 - P501 - Dispose of contents/container in accordance with 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

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

| Name | Product Identifier | % (w/w) | Classification (GHS-US) |
|--|----------------------|---------|--|
| Methyl methacrylate | (CAS No) 80-62-6 | 15 - 35 | 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 |
| 2-Ethylhexyl acrylate | (CAS No) 103-11-7 | 10 - 25 | 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 |
| Titanium dioxide | (CAS No) 13463-67-7 | 0 - 5 | Carc. 2, H351 |
| Quartz | (CAS No) 14808-60-7 | 0 - 1 | Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372 |
| 2-Propenoic acid, 2-methyl-, oxybis(2,1-ethanedioxy-2,1-ethanedioyl) ester | (CAS No) 109-17-1 | 0 - 1 | Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 |
| 1-Methyl-2-pyrrolidone | (CAS No) 872-50-4 | 0 - 5 | Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Repr. 1B, H360 STOT SE 3, H335 |
| Naphtha, petroleum, hydrodesulfurized heavy | (CAS No) 64742-82-1 | 0 - 0.5 | Flam. Liq. 1, H224 Skin Irrit. 2, H315 Muta. 1B, H340 Carc. 1B, H350 Repr. 2, H361 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |
| Fatty acids, C18, unsaturated, dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine | (CAS No) 162627-17-0 | 0 - 0.5 | Skin Sens. 1, H317 |
| Solvent naphtha, petroleum, light aromatic | (CAS No) 64742-95-6 | 0 - 0.5 | Flam. Liq. 1, H224 Skin Irrit. 2, H315 Muta. 1B, H340 Carc. 1B, H350 Repr. 2, H361 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411 |

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Multiple WHMIS ranges have been utilized due to varying composition.
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 at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

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

Most Important Symptoms and Effects Both Acute and Delayed

General: Harmful if swallowed. Causes eye irritation. Skin irritation. May cause an allergic skin reaction. Irritation of respiratory tract. May damage fertility. May damage the unborn child. Inhalation may cause allergic respiratory reaction with asthma-like symptoms and difficulty breathing. Vapors may cause drowsiness and dizziness. May cause cancer. May cause heritable genetic damage.

Inhalation: May cause respiratory irritation. Exposure may produce an allergic reaction. May cause drowsiness or dizziness.

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

Eye Contact: Causes eye irritation.

Ingestion: Swallowing a small quantity of this material will result in serious health hazard.

Chronic Symptoms: May damage fertility. May damage the unborn child. May cause heritable genetic damage. May cause cancer.

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: Water spray, dry chemical, foam, carbon dioxide.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

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.

Hazardous Combustion Products: Carbon oxides (CO, CO₂). Nitrogen oxides. Hydrocarbons. Black smoke. Methyl methacrylate. Oxides of titanium. May release flammable gases. May liberate toxic gases.

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.

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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 eye 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).

Emergency Procedures: Evacuate unnecessary personnel.

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 cellulosic material. Contact competent authorities after a spill. Use only non-sparking tools.

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. 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.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers.

Specific End Use(s)

Parapro Liquid Resin system. For professional use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

| Methyl methacrylate (80-62-6) | | |
|-------------------------------|-------------------------------|-----------------------|
| Mexico | OEL TWA (mg/m ³) | 410 mg/m ³ |
| Mexico | OEL TWA (ppm) | 100 ppm |
| Mexico | OEL STEL (mg/m ³) | 510 mg/m ³ |
| Mexico | OEL STEL (ppm) | 125 ppm |
| USA ACGIH | ACGIH TWA (ppm) | 50 ppm |
| USA ACGIH | ACGIH STEL (ppm) | 100 ppm |

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| | | |
|------------------------------------|--------------------------------------|---|
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 410 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 100 ppm |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 410 mg/m ³ |
| USA NIOSH | NIOSH REL (TWA) (ppm) | 100 ppm |
| USA IDLH | US IDLH (ppm) | 1000 ppm |
| Alberta | OEL STEL (mg/m ³) | 410 mg/m ³ |
| Alberta | OEL STEL (ppm) | 100 ppm |
| Alberta | OEL TWA (mg/m ³) | 205 mg/m ³ |
| Alberta | OEL TWA (ppm) | 50 ppm |
| British Columbia | OEL STEL (ppm) | 100 ppm |
| British Columbia | OEL TWA (ppm) | 50 ppm |
| Manitoba | OEL STEL (ppm) | 100 ppm |
| Manitoba | OEL TWA (ppm) | 50 ppm |
| New Brunswick | OEL TWA (mg/m ³) | 410 mg/m ³ |
| New Brunswick | OEL TWA (ppm) | 100 ppm |
| Newfoundland & Labrador | OEL STEL (ppm) | 100 ppm |
| Newfoundland & Labrador | OEL TWA (ppm) | 50 ppm |
| Nova Scotia | OEL STEL (ppm) | 100 ppm |
| Nova Scotia | OEL TWA (ppm) | 50 ppm |
| Nunavut | OEL STEL (mg/m ³) | 510 mg/m ³ |
| Nunavut | OEL STEL (ppm) | 125 ppm |
| Nunavut | OEL TWA (mg/m ³) | 410 mg/m ³ |
| Nunavut | OEL TWA (ppm) | 100 ppm |
| Northwest Territories | OEL STEL (mg/m ³) | 510 mg/m ³ |
| Northwest Territories | OEL STEL (ppm) | 125 ppm |
| Northwest Territories | OEL TWA (mg/m ³) | 410 mg/m ³ |
| Northwest Territories | OEL TWA (ppm) | 100 ppm |
| Ontario | OEL STEL (ppm) | 100 ppm |
| Ontario | OEL TWA (ppm) | 50 ppm |
| Prince Edward Island | OEL STEL (ppm) | 100 ppm |
| Prince Edward Island | OEL TWA (ppm) | 50 ppm |
| Québec | VEMP (mg/m ³) | 205 mg/m ³ |
| Québec | VEMP (ppm) | 50 ppm |
| Saskatchewan | OEL STEL (ppm) | 100 ppm |
| Saskatchewan | OEL TWA (ppm) | 50 ppm |
| Yukon | OEL STEL (mg/m ³) | 510 mg/m ³ |
| Yukon | OEL STEL (ppm) | 125 ppm |
| Yukon | OEL TWA (mg/m ³) | 410 mg/m ³ |
| Yukon | OEL TWA (ppm) | 100 ppm |
| Quartz (14808-60-7) | | |
| Mexico | OEL TWA (mg/m ³) | 0.1 mg/m ³ (respirable fraction) |
| USA ACGIH | ACGIH TWA (mg/m ³) | 0.025 mg/m ³ (respirable fraction) |
| USA OSHA | OSHA PEL (STEL) (mg/m ³) | 250 mppcf/%SiO ₂ +5, 10mg/m ³ /%SiO ₂ +2 |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 0.05 mg/m ³ (respirable dust) |
| USA IDLH | US IDLH (mg/m ³) | 50 mg/m ³ (respirable dust) |
| Alberta | OEL TWA (mg/m ³) | 0.025 mg/m ³ (respirable particulate) |
| British Columbia | OEL TWA (mg/m ³) | 0.025 mg/m ³ (respirable) |
| Manitoba | OEL TWA (mg/m ³) | 0.025 mg/m ³ (respirable fraction) |

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| | | |
|------------------------------------|------------------------------|--|
| New Brunswick | OEL TWA (mg/m ³) | 0.1 mg/m ³ (respirable fraction) |
| Newfoundland & Labrador | OEL TWA (mg/m ³) | 0.025 mg/m ³ (respirable fraction) |
| Nova Scotia | OEL TWA (mg/m ³) | 0.025 mg/m ³ (respirable fraction) |
| Nunavut | OEL TWA (mg/m ³) | 0.1 mg/m ³ (respirable mass) |
| Northwest Territories | OEL TWA (mg/m ³) | 0.1 mg/m ³ (respirable mass) |
| Ontario | OEL TWA (mg/m ³) | 0.10 mg/m ³ (designated substances regulation-respirable) |
| Prince Edward Island | OEL TWA (mg/m ³) | 0.025 mg/m ³ (respirable fraction) |
| Québec | VEMP (mg/m ³) | 0.1 mg/m ³ (respirable dust) |
| Saskatchewan | OEL TWA (mg/m ³) | 0.05 mg/m ³ (respirable fraction) |
| Yukon | OEL TWA (mg/m ³) | 300 particle/mL |

| | | |
|--------------------------------------|-------------------------------------|---|
| Titanium dioxide (13463-67-7) | | |
| Mexico | OEL TWA (mg/m ³) | 10 mg/m ³ |
| Mexico | OEL STEL (mg/m ³) | 20 mg/m ³ |
| USA ACGIH | ACGIH TWA (mg/m ³) | 10 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 15 mg/m ³ (total dust) |
| USA IDLH | US IDLH (mg/m ³) | 5000 mg/m ³ |
| Alberta | OEL TWA (mg/m ³) | 10 mg/m ³ |
| British Columbia | OEL TWA (mg/m ³) | 10 mg/m ³ (total dust) |
| Manitoba | OEL TWA (mg/m ³) | 10 mg/m ³ |
| New Brunswick | OEL TWA (mg/m ³) | 10 mg/m ³ |
| Newfoundland & Labrador | OEL TWA (mg/m ³) | 10 mg/m ³ |
| Nova Scotia | OEL TWA (mg/m ³) | 10 mg/m ³ |
| Nunavut | OEL TWA (mg/m ³) | 5 mg/m ³ (respirable mass) |
| Northwest Territories | OEL TWA (mg/m ³) | 5 mg/m ³ (respirable mass) |
| Ontario | OEL TWA (mg/m ³) | 10 mg/m ³ |
| Prince Edward Island | OEL TWA (mg/m ³) | 10 mg/m ³ |
| Québec | VEMP (mg/m ³) | 10 mg/m ³ (containing no Asbestos and <1% Crystalline silica-total dust) |
| Saskatchewan | OEL STEL (mg/m ³) | 20 mg/m ³ |
| Saskatchewan | OEL TWA (mg/m ³) | 10 mg/m ³ |
| Yukon | OEL STEL (mg/m ³) | 20 mg/m ³ |
| Yukon | OEL TWA (mg/m ³) | 30 mppcf |

| | | |
|--|-------------------------------|-----------------------|
| 1-Methyl-2-pyrrolidone (872-50-4) | | |
| Ontario | OEL TWA (mg/m ³) | 400 mg/m ³ |
| Yukon | OEL STEL (mg/m ³) | 500 mg/m ³ |
| Yukon | OEL STEL (ppm) | 125 ppm |
| Yukon | OEL TWA (mg/m ³) | 400 mg/m ³ |
| Yukon | OEL TWA (ppm) | 100 ppm |

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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/flammable 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

| | |
|---|---|
| Physical State | : Liquid |
| Appearance | : White, pebble gray, gray, beige |
| Odor | : Methyl methacrylate, Light Floral Scent |
| Odor Threshold | : Not available |
| pH | : Not available |
| Evaporation Rate | : Not available |
| Melting Point | : Not available |
| Freezing Point | : Not available |
| Boiling Point | : Not available |
| Flash Point | : 10 °C (50.00 °F) |
| Auto-ignition Temperature | : Not available |
| Decomposition Temperature | : Not available |
| Flammability (solid, gas) | : Not available |
| Lower Flammable Limit | : Not available |
| Upper Flammable Limit | : Not available |
| Vapor Pressure | : > 1000 hPa @50°C (122°F) |
| Relative Vapor Density at 20 °C | : Not available |
| Relative Density | : Not available |
| Specific gravity / density | : 0.97 - 1.4 g/l @21°C (69.8°F) |
| Specific Gravity | : Not available |
| Solubility | : Insoluble in water. |
| Partition Coefficient: N-octanol/water | : Not available |
| Viscosity | : 25- 42 dPa*s @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. |

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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.

Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Heat. Ignition sources. Incompatible materials.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers.

Hazardous Decomposition Products: Carbon oxides (CO, CO₂). May release flammable gases. Toxic gases. Nitrogen oxides. Hydrocarbons. Methyl methacrylate. Oxides of titanium.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: Harmful if swallowed.

LD50 and LC50 Data:

| ProPaste, Pro Matrix | |
|----------------------|---------------------------|
| ATE US (oral) | 1749.78 mg/kg body weight |

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: May cause genetic defects.

Teratogenicity: Not available

Carcinogenicity: May cause cancer.

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. May cause drowsiness or dizziness.

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: May cause respiratory irritation. Exposure may produce an allergic reaction. May cause drowsiness or dizziness.

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: Swallowing a small quantity of this material will result in serious health hazard.

Chronic Symptoms: May damage fertility. May damage the unborn child. May cause heritable genetic damage. May cause cancer.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

| Methyl methacrylate (80-62-6) | |
|----------------------------------|---------------|
| LD50 Oral Rat | 7900 mg/kg |
| LC50 Inhalation Rat | 4632 ppm/4h |
| 2-Ethylhexyl acrylate (103-11-7) | |
| LD50 Oral Rat | 4435 mg/kg |
| LD50 Dermal Rabbit | 7522 mg/kg |
| Quartz (14808-60-7) | |
| LD50 Oral Rat | > 5000 mg/kg |
| LD50 Dermal Rat | > 5000 mg/kg |
| Titanium dioxide (13463-67-7) | |
| LD50 Oral Rat | > 10000 mg/kg |

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| | |
|---|--------------------------|
| 1-Methyl-2-pyrrolidone (872-50-4) | |
| LD50 Oral Rat | 4150 mg/kg |
| LD50 Dermal Rabbit | > 5000 mg/kg |
| LC50 Inhalation Rat | 5.1 mg/l/4h |
| Naphtha, petroleum, hydrodesulfurized heavy (64742-82-1) | |
| LD50 Oral Rat | > 5000 mg/kg |
| LD50 Dermal Rabbit | > 3160 mg/kg |
| Solvent naphtha, petroleum, light aromatic (64742-95-6) | |
| LD50 Dermal Rabbit | > 2000 mg/kg |
| LC50 Inhalation Rat | 3400 ppm/4h |
| ATE US (gases) | 3,400.00 ppmV/4h |
| Methyl methacrylate (80-62-6) | |
| IARC Group | 3 |
| 2-Ethylhexyl acrylate (103-11-7) | |
| IARC Group | 3 |
| Quartz (14808-60-7) | |
| IARC Group | 1 |
| National Toxicity Program (NTP) Status | Known Human Carcinogens. |
| Titanium dioxide (13463-67-7) | |
| IARC Group | 2B |

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecology - General: Harmful to aquatic life with long lasting effects.

| | |
|--|--|
| Methyl methacrylate (80-62-6) | |
| LC50 Fish 1 | 243 - 275 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1 | 69 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| LC 50 Fish 2 | 125.5 - 190.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| 2-Ethylhexyl acrylate (103-11-7) | |
| EC50 Daphnia 1 | 17.45 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| 1-Methyl-2-pyrrolidone (872-50-4) | |
| LC50 Fish 1 | 832 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) |
| EC50 Daphnia 1 | 4897 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| LC 50 Fish 2 | 1072 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| Solvent naphtha, petroleum, light aromatic (64742-95-6) | |
| LC50 Fish 1 | 9.22 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) |
| EC50 Daphnia 1 | 6.14 mg/l (Exposure time: 48 h - Species: Daphnia magna) |

Persistence and Degradability Not available

Bioaccumulative Potential

| | |
|--------------------------------------|------------------|
| ProPaste, Pro Matrix | |
| Bioaccumulative Potential | Not established. |
| Methyl methacrylate (80-62-6) | |
| Log Pow | 0.7 |

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| | |
|--|------------------|
| 2-Ethylhexyl acrylate (103-11-7) | |
| Log Pow | 4.64 (at 25 °C) |
| 1-Methyl-2-pyrrolidone (872-50-4) | |
| Log Pow | -0.46 (at 25 °C) |

Mobility in Soil Not available

Other Adverse Effects

Other Information: 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
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



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



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SECTION 15: REGULATORY INFORMATION

US Federal Regulations

| | |
|--|---|
| ProPaste, Pro Matrix | |
| SARA Section 311/312 Hazard Classes | Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard |
| 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 | |
| Quartz (14808-60-7) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Titanium dioxide (13463-67-7) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| 1-Methyl-2-pyrrolidone (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 % |
| Naphtha, petroleum, hydrodesulfurized heavy (64742-82-1) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Solvent naphtha, petroleum, light aromatic (64742-95-6) | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| US State Regulations | |
| Quartz (14808-60-7) | |
| U.S. - California - Proposition 65 - Carcinogens List | WARNING: This product contains chemicals known to the State of California to cause cancer. |
| Titanium dioxide (13463-67-7) | |
| U.S. - California - Proposition 65 - Carcinogens List | WARNING: This product contains chemicals known to the State of California to cause cancer. |
| 1-Methyl-2-pyrrolidone (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 | |

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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 (TELEs)
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
RTK - U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
RTK - U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Rhode Island - Air Toxics - Acceptable Ambient Levels - 24-Hour
U.S. - South Carolina - Toxic Air Pollutants - Maximum Allowable Concentrations
U.S. - South Carolina - Toxic Air Pollutants - Pollutant Categories
U.S. - Tennessee - Occupational Exposure Limits - TWAs
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term
U.S. - Vermont - Hazardous Waste - Hazardous Constituents
U.S. - Vermont - Permissible Exposure Limits - TWAs
U.S. - Washington - Dangerous Waste - Dangerous Waste Constituents List
U.S. - Washington - Dangerous Waste - Discarded Chemical Products List
U.S. - Washington - Permissible Exposure Limits - STELs
U.S. - Washington - Permissible Exposure Limits - TWAs
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet

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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
RTK - U.S. - Massachusetts - Right To Know 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

Quartz (14808-60-7)

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 - Mineral Dusts
U.S. - Illinois - Toxic Air Contaminant Carcinogens
U.S. - Illinois - Toxic Air Contaminants
U.S. - Maine - Chemicals of High Concern
RTK - U.S. - Massachusetts - Right To Know List
U.S. - Michigan - Occupational Exposure Limits - TWAs
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
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 - Mineral Dusts
U.S. - New York - Occupational Exposure Limits - TWAs
U.S. - Oregon - Permissible Exposure Limits - Mineral Dusts
RTK - U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Tennessee - Occupational Exposure Limits - TWAs
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term
U.S. - Vermont - Permissible Exposure Limits - TWAs
U.S. - Washington - Permissible Exposure Limits - STELS
U.S. - Washington - Permissible Exposure Limits - TWAs

Titanium dioxide (13463-67-7)

U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)
U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)
U.S. - Idaho - Occupational Exposure Limits - TWAs
U.S. - Illinois - Toxic Air Contaminant Carcinogens
RTK - U.S. - Massachusetts - Right To Know List
U.S. - Michigan - Occupational Exposure Limits - TWAs
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

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RTK - 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
 RTK - U.S. - Pennsylvania - RTK (Right to Know) List
 U.S. - Tennessee - Occupational Exposure Limits - TWAs
 U.S. - Texas - Effects Screening Levels - Long Term
 U.S. - Texas - Effects Screening Levels - Short Term
 U.S. - Vermont - Permissible Exposure Limits - TWAs
 U.S. - Washington - Permissible Exposure Limits - STELs
 U.S. - Washington - Permissible Exposure Limits - TWAs

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

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

Naphtha, petroleum, hydrodesulfurized heavy (64742-82-1)

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

Solvent naphtha, petroleum, light aromatic (64742-95-6)

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

Canadian Regulations

ProPaste, Pro Matrix

| | |
|----------------------|--|
| 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 |
|----------------------|--|



Methyl methacrylate (80-62-6)

Listed on the Canadian DSL (Domestic Substances List)
 Listed on the Canadian IDL (Ingredient Disclosure List)

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| | |
|-----------------------|--|
| 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 |

| | |
|---|--|
| 2-Ethylhexyl acrylate (103-11-7) | |
| Listed on the Canadian DSL (Domestic Substances 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 |

| | |
|---|--|
| Quartz (14808-60-7) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| Listed on the Canadian IDL (Ingredient Disclosure List) | |
| IDL Concentration 1 % | |
| WHMIS Classification | Class D Division 2 Subdivision A - Very toxic material causing other toxic effects |

| | |
|---|--|
| Titanium dioxide (13463-67-7) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| WHMIS Classification | Class D Division 2 Subdivision A - Very toxic material causing other toxic effects |

| | |
|---|--|
| 1-Methyl-2-pyrrolidone (872-50-4) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| WHMIS Classification | 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 |

| | |
|---|--|
| Naphtha, petroleum, hydrodesulfurized heavy (64742-82-1) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| WHMIS Classification | 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 Class B Division 2 - Flammable Liquid |

| | |
|--|--|
| Solvent naphtha, petroleum, light aromatic (64742-95-6) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| WHMIS Classification | Class B Division 3 - Combustible Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects |

| | |
|---|---|
| Fatty acids, C18, unsaturated, dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine (162627-17-0) | |
| WHMIS Classification | Class D Division 2 Subdivision B - Toxic material causing other toxic effects |

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 : 09/02/2015
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:

| | |
|-----------------------|------------------------------------|
| Acute Tox. 3 (Oral) | Acute toxicity (oral) Category 3 |
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal) Category 4 |

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| | |
|-------------------------------------|---|
| Acute Tox. 4 (Inhalation:vapour) | Acute toxicity (inhalation:vapour) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment - Acute Hazard Category 1 |
| Aquatic Acute 2 | Hazardous to the aquatic environment - Acute Hazard Category 2 |
| Aquatic Acute 3 | Hazardous to the aquatic environment - Acute Hazard Category 3 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment - Chronic Hazard Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment - Chronic Hazard Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment - Chronic Hazard Category 3 |
| Asp. Tox. 1 | Aspiration hazard Category 1 |
| Carc. 1A | Carcinogenicity Category 1A |
| Carc. 1B | Carcinogenicity Category 1B |
| Carc. 2 | Carcinogenicity Category 2 |
| Comb. Dust | Combustible Dust |
| Eye Irrit. 2A | Serious eye damage/eye irritation Category 2A |
| Eye Irrit. 2B | Serious eye damage/eye irritation Category 2B |
| Flam. Liq. 1 | Flammable liquids Category 1 |
| Flam. Liq. 2 | Flammable liquids Category 2 |
| Flam. Liq. 3 | Flammable liquids Category 3 |
| Flam. Liq. 4 | Flammable liquids Category 4 |
| Muta. 1B | Germ cell mutagenicity Category 1B |
| Repr. 1B | Reproductive toxicity Category 1B |
| Repr. 2 | Reproductive toxicity Category 2 |
| Resp. Sens. 1 | Respiratory sensitisation Category 1 |
| Skin Irrit. 2 | Skin corrosion/irritation Category 2 |
| Skin Sens. 1 | Skin sensitization Category 1 |
| STOT RE 1 | Specific target organ toxicity (repeated exposure) Category 1 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| H224 | Extremely flammable liquid and vapor |
| H225 | Highly flammable liquid and vapor |
| H226 | Flammable liquid and vapor |
| H227 | Combustible liquid |
| | May form combustible dust concentrations in air |
| H301 | Toxic if swallowed |
| H302 | Harmful if swallowed |
| H304 | May be fatal if swallowed and enters airways |
| H312 | Harmful in contact with skin |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H319 | Causes serious eye irritation |
| H320 | Causes eye irritation |
| H332 | Harmful if inhaled |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled |
| H335 | May cause respiratory irritation |

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| | |
|------|--|
| H336 | May cause drowsiness or dizziness |
| H340 | May cause genetic defects |
| H350 | May cause cancer |
| H351 | Suspected of causing cancer |
| H360 | May damage fertility or the unborn child |
| H361 | Suspected of damaging fertility or the unborn child |
| H372 | Causes damage to organs through prolonged or repeated exposure |
| H400 | Very toxic to aquatic life |
| H401 | Toxic to aquatic life |
| H402 | Harmful to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |
| H411 | Toxic to aquatic life with long lasting effects |
| H412 | Harmful to aquatic life with long lasting effects |

Party Responsible for the Preparation of This Document

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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

PRO PASTE RESIN



Commercial Product Data Sheet

Product Description

Pro Paste Resin is a high performance multi-component, fast curing, PMMA resin paste.

Product Uses

Pro Paste Resin is used for remediation of depressions in substrate surfaces or other surface irregularities prior to application of a Parapro Roof Membrane System, or a Terapro Waterproofing and Surfacing System.

Color

Pro Paste Resin is supplied in a pebble gray color, #7032.

Packaging

Pro Paste Resin is supplied in 5-kg (11-lb) resealable drums with locking rings.

Coverage Rates

See recommendations for specific applications. Yields will vary depending upon the system selected and the smoothness of the substrate. Maximum thickness: 5 mm (3/16 inch)

Application Conditions

Pro Paste can be applied when the ambient temperature is between 32°F (0°C) and 95°F (35°C) and the substrate temperature is between 32°F (0°C) and 122°C (50°C). Discontinue resin application when the ambient or substrate temperature is outside the ranges listed above. Provide adequate shade over the substrate area both prior to and during application as necessary to maintain substrate surface temperatures below 122° F (50° C).

Storage

Product shelf life is 6 months from ship date. Shelf life will be reduced if product is stored at temperatures above 77°F (25°C). Store indoors in a closed container in a well-ventilated, cool, dry area away from heat, open fire, any ignition source, direct sunlight, oxidizing agents, strong acids, and strong alkalis. Do not store in temperatures below 32°F (0°C). Product may auto-polymerize at temperatures greater than 140°F (60°C). Materials stored on the job site during application should be kept on a pallet in a shaded, well-ventilated area. In unshaded areas, materials should be covered with a white, reflective tarp in a manner that allows air circulation underneath the tarp.

Handling

Do not smoke. Keep away from open fire, flame or any ignition source. Vapors may form explosive mixtures with air. Avoid skin and eye contact with this material. Avoid breathing fumes. Do not eat, drink or smoke in the application area.

Consult the Safety Data Sheet (SDS) for additional information pertaining to this product.

Personal Protection Equipment (PPE)

Workers must wear a long sleeved shirt with long pants and work boots. Workers must use only butyl rubber or nitrile gloves when mixing or applying this product. Safety goggles are required for eye protection.

Use local exhaust ventilation to maintain worker exposure below TLV. If the airborne concentration poses a health hazard, becomes irritating or exceeds recommended limits, use a NIOSH approved respirator in accordance with OSHA Respirator Protection requirements under 29 CFR 1910.134. Specific type of respirator will depend of the airborne concentration. Filtering face piece or dust mask is not acceptable for use with this product if TLV filtering levels have been exceeded.

Mixing & Catalyzing

If batch mixing, thoroughly mix the entire drum of resin for 2-3 minutes prior to pouring resin into a second container. Catalyze only the amount of resin that can be used within the anticipated pot life. Add pre-measured catalyst to the resin, stir for 2 minutes using a slow-speed mechanical agitator or mixing stick, and apply to the substrate. The amount of catalyst needed is based on the weight of the resin used, and varies with the ambient temperature as shown in the chart on the back of this sheet.

Pot Life

Pro Paste Resin pot life is approximately 15 minutes at 68°F (20°C). Pot life will be reduced if the resin is at higher temperatures. Pot life can be maximized by storing product under controlled conditions and ensuring that the resin is at the low range of minimum storage temperature during/following the addition of catalyst and prior to application.

Set (Cure) Times

Minimum set (cure) times noted below are approximate, and may vary. The information provided is based on laboratory conditions, and is intended for use as a guideline only. Actual set (cure) times should be established in the field, based on actual field conditions.

Rain Proof at 68°F (20°C): Approximately 30 minutes

Ready for Next Coat at 68°F (20°C): Approximately 60 minutes

Stress Resistant at 68°F (20°C): Approximately 3 hours

Tool Cleaning

When work is interrupted or completed, reusable tools must be thoroughly cleaned with Pro Prep before any catalyzed resin on the tools hardens.

Current copies of all Siplast Commercial Product Data Sheets are posted on the Siplast Web site at www.Siplast.com.

Rev 5/2015

PRO PASTE RESIN

Pro Catalyst Mixing Chart

The amount of Pro Catalyst used with Pro Paste Resin varies from a minimum of 2% to 6% maximum by weight, depending upon the ambient temperatures as indicated in the following table:

| Resin Quantity | 2% Catalyst 77°F to 95°F (25°C to 35°C) | | | | 4% Catalyst 41°F to 77°F (5°C to 25°C) | | | | 6% Catalyst 32°F to 41°F (0°C to 5°C) | | | |
|------------------------|--|-----|--------|-------------|---|-----|--------|-------------|--|-----|--------|-------------|
| | g | kg | Tblsp. | 0.1 kg Bags | g | kg | Tblsp. | 0.1 kg Bags | g | kg | Tblsp. | 0.1 kg Bags |
| 1.0 kg (0.72 liter) | 20 | .02 | 2 | n/a | 40 | .04 | 4 | n/a | 60 | .06 | 6 | n/a |
| 5.0 kg (3.6 liter) | 100 | 0.1 | 10 | 1 | 200 | 0.2 | 20 | 2 | 300 | 0.3 | 30 | 3 |

PRO PRIMER E RESIN - PART A

Date prepared: OCTOBER 14, 2016

Section 1 – Identification

IDENTITY: *Product Name:* **Pro Primer E Resin - Part A**

SUPPLIER: Siplast
1000 Rochelle Blvd.
Irving, TX 75062
800-922-8800

Emergency Phone: CHEMTREC 800-424-9300

Recommended use of the chemical and restriction on use: Refer to the product technical data sheet.
For industrial and professional users.

Section 2 – Hazards Identification

GHS Classification:

| | |
|-------------------------------------|--|
| Skin irritation, Category 2 | H315: Causes skin irritation. |
| Skin sensitization, Category 1 | H317: May cause an allergic skin reaction. |
| Eye irritation, Category 2A | H319: Causes serious eye irritation. |
| Harmful to aquatic life, Category 3 | H411: Toxic to aquatic life with long lasting effects. |

GHS Label element:

Hazard Pictograms



Signal Word: Warning

Hazard Statements:

| | |
|-------|--|
| H315: | Causes skin irritation. |
| H317: | May cause an allergic skin reaction |
| H411: | Toxic to aquatic life with long lasting effects. |

Precautionary Statements:

Prevention:

| | |
|-------|--|
| P102: | Keep out of reach of children. |
| P264: | Wash skin thoroughly after handling. |
| P270: | Do not eat, drink or smoke when using this product. |
| P280: | Wear eye protection/face protection. |
| P280: | Wear protective gloves. |
| P272: | Contaminated work clothing should not be allowed out of the workplace. |
| P281: | Use protective equipment as required. |

Response:

| | | |
|--------------|---------------|--|
| P301 + P315: | IF SWALLOWED: | Get immediate medical advice/attention. |
| P302 + P352: | IF ON SKIN: | Wash with plenty of water. |
| P304 + P340: | IF INHALED: | Remove victim to fresh air and keep at rest in a position comfortable for breathing. |

PRO PRIMER E RESIN - PART A

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. P332
 + P313: IF skin irritation occurs, get medical advice/attention.
 P362: Take off contaminated clothing and wash before reuse.

Storage:

P403 + P232: Store in a well-ventilated place. Protect from moisture.

Disposal:

P501: Dispose of contents/container to an approved waste disposal site.
 P502: Refer to manufacturer/supplier for information on recovery/recycling.

Section 3 – Composition / Information on Ingredients

Description: Solvent-free preparation based on bisphenol-A-epichlorhydrin resin molecular weight ≤700.

| COMPONENTS | CAS NUMBER | OSHA PEL | ACGIH TLV | WEIGHT % |
|--|------------|------------|------------|----------|
| Bisphenol-A-epichlorhydrin | 25068-38-6 | Not Estab. | Not Estab. | 50-100% |
| 1,6-bis(2,3-ethoxypropoxy)hexane | 16096-31-4 | Not Estab. | Not Estab. | 10-25% |
| Diisopropylinaphthalene | 38640-62-9 | Not Estab. | Not Estab. | 10-25% |
| aliphatic trimethylol-propantriglydylether | 30499-70-8 | Not Estab. | Not Estab. | 10-25% |
| bisphenol-F-epoxy resin | 9003-36-5 | Not Estab. | Not Estab. | 2.5-10% |

Note: There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Section 4 – First Aid Measures

After Inhalation: Remove subject to fresh air. Administer oxygen if difficulty with breathing. Consult a physician.

After Ingestion: Immediately seek medical attention. Do not induce vomiting. Drink plenty of water to dilute stomach contents.

After Skin Contact: Instantly wash skin with plenty of soap and water for at least 15 minutes. Wash clothing before reuse.

After Eye Contact: Rinse opened eye with plenty of running water for at least 15 minutes, lifting upper and lower eyelids occasionally. Remove contact lenses. Consult physician.

Section 5 – Fire Fighting Measures

Extinguishing Media: Carbon dioxide (CO₂), extinguishing powder, water fog. Do not use full water jet.

Special Fire Fighting Procedures: As in any fire, wear full protective gear and NIOSH-approved self-contained breathing apparatus with full face-piece operated in the pressure demand or other positive pressure mode.

Unusual Fire and Explosion Hazards: Bursting and explosion of container possible due to increase of pressure when exposed to increasing heat. In case of fire, cool nearby containers with water fog. Formation of poisonous gases during heating or infires.

PRO PRIMER E RESIN - PART A

Section 6 – Accidental Release Measures

- Person-related Safety Precautions:** Provide plenty of fresh air. Avoid eye and skin contact. Avoid inhalation of vapors. Wear personal protective equipment. Remove or eliminate all ignition sources. Emergency procedures are not required.
- Methods for Cleaning up:** Contain and collect spillage with non-combustible, absorbent materials. i.e. sand, earth, vermiculate, diatomaceous earth, universal binders, sawdust and place in container for disposal.
- Waste Disposal Method:** Dispose in accordance with local, state and federal regulations.
- Ecological Information:** Do not allow product to reach ground water, bodies of water, or storm water or sewage systems.

Section 7 – Handling and Storage

- Handling:** Avoid eye and skin contact. Keep out of reach of children.
- Storage:** Store in a cool, dry enclosed area off the ground in tightly closed containers. No special measures required against explosion and fires. Store away from foodstuffs. Provide fresh air when handling in closed rooms (open windows and doors).

Section 8 – Exposure Controls / Personal Protection

- Engineering Controls:** Use with adequate general and local exhaust ventilation. Washing of the skin in the working area must be possible. Eye-wash station or bottle must be available.
- Respiratory Protection:** Respirator in well ventilated areas not necessary. Wear a properly fitted NIOSH approved respirator in poorly ventilated areas or spillage.
- Skin Protection:** When installing, wear appropriate protective rubber or plastic gloves to prevent hand-skin exposure. Wear appropriate impervious clothing to prevent skin exposure (long sleeve shirt and long pants).
- Eye Protection:** Wear tightly sealed safety glasses with side shields or goggles. Face shield as necessary.
- Work/Hygienic Practices:** Wash hands before breaks and after work, and before eating, drinking or smoking.

Section 9 – Physical and Chemical Properties

- Physical State:** Liquid
- Appearance/Color:** Clear
- Odor:** Weak, characteristic
- Solubility in water:** Not or slightly miscible
- Boiling Point:** Not determined
- Melting Point:** Not determined
- Flash Point:** >100° C (>212° F)
- Flammability:** Does not self-ignite
- Explosion:** Does not explode
- Bulk Density:** 1.12 kg/dm³ at 20°C (68°F)
- Viscosity: (dynamic)** 495 cps (mPas) at 20°C (68°F)
- VOC Concentration:** 0 g/l

PRO PRIMER E RESIN - PART A

Section 10 – Stability and Reactivity

| | |
|---------------------------------|---|
| Chemical Stability: | Stable under normal conditions. |
| Conditions to Avoid: | Keep away from heat, ignition sources and incompatible materials. |
| Hazardous Decomposition: | Dangerous emissions of various decomposition products can be formed when exposed to heat. |
| Incompatibilities: | Avoid contact with acids and oxidizers. |

Section 11 – Toxicological Information

Acute Toxicity:

25068-38-6 bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700) Oral

| | | |
|--------|------|-------------------|
| | LD50 | >5000 mg/kg (rat) |
| Dermal | LD50 | >2000 mg/kg (rat) |

16096-31-4 1,6-bis(2,3-ethoxypropoxy)hexane

| | | |
|------------|----------|---------------------|
| Oral | LD50 | 1400 mg/kg (rabbit) |
| | LD50 | 2900 mg/kg (rat) |
| Inhalative | LC50/4 h | >100 mg/l (mouse) |

bisphenol F-epoxy resin

| | | |
|------|------|-------------------|
| Oral | LD50 | >5000 mg/kg (rat) |
|------|------|-------------------|

Primary Irritation:

- **Skin:** irritates skin and mucous membrane.
- **Eyes:** irritating
- **Sensibility:** sensibility through contact with skin possible.

Section 12 – Ecological Information

Aquatic toxicity:

25068-38-6 bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)

| | |
|------|---------------------------------|
| EC50 | (24 h) 3.6 mg/l (Daphnia magna) |
| LC50 | (96 h) 1.5 mg/l (Rainbow trout) |

9003-36-5 bisphenol F-epoxy resin

| | |
|------|--|
| EC50 | 2 mg/l (Daphnia (acute) toxicity) LC50 |
| | (96 h) 2 mg/l (Fish toxicity) |

Persistence and degradability:

25068-38-6 bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)
 301B (Mod. Sturm) 12% (-)

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Remark: Toxic for fish. Do not allow product or large quantities to reach into waterways or drains.

General notes: Water hazard class 2 (Self-assessment): hazardous for water.
 Do not allow product to reach ground water, bodies of water, or storm water or sewage systems.

PRO PRIMER E RESIN - PART A

Section 13 – Disposal Considerations

Waste Disposal Method: Dispose of in a manner consistent with federal, state and local regulations. This includes pails containing uncured material. Pails with cured/hardened remains of product can be sent for recycling.

Recommendation: Product mixed with hardener and fully cured is ecologically save and can be disposed to local refuse deposit or recycling facility.

Section 14 – Transport Information

USDOT (Domestic Surface): UN 3082 Not regulated.

IATA/ICAO (Air): UN 3082 Environmentally hazardous substance, liquid, NOS (bisphenol A-(epichlorhydrin), epoxy resin (number average molecular weight<700), 1,6-Hexandioldiglycidylether. 9, PG III.

IMDG (Ocean): UN 3082 Environmentally hazardous substance, liquid, NOS (bisphenol A-(epichlorhydrin), epoxy resin (number average molecular weight<700), 1,6-Hexandioldiglycidylether. Marine pollutant. 9, PG III.

Section 15 – Regulatory Information

All raw materials are on the U.S., EPA, TSCA Inventory.

SARA Notification: Nothing in this product is subject to regulation under SARA 302, 313. It may be subject to SARA 312 reporting, depending upon the purchaser's storage circumstances.

CERCLA: No CERCLA chemicals exist in this product above reportable concentrations.

Clean Air Act

Ozone-Depletion Potential: This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section (40 CFR 61).

Section 16 – Other Information

(Hazard Rating: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe; * = Chronic)

HMIS III rating:

Health: 2* Flammability: 1 Physical hazard: 1

Abbreviations and acronyms:

USDOT: United States Department of Transportation.
 IMDG: International Maritime Code for Dangerous Goods.
 IATA: International Air Transport Association.
 CAS: Chemical Abstracts Service (Division of the American Chemical Society).
 LC50: Lethal concentration, 50 percent.
 LD50: Lethal dose, 50 percent.
 EC50: Median effective concentration.
 RQ: Reportable quantity.

PRO PRIMER E RESIN - PART A

Party responsible for the preparation of this SDS: Todd Franks ussds@icopal.com.

DISCLAIMER:

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, expressed or implied, and we assume no responsibility for any loss, damage, or expense, direct or consequential, arising out of their use.

User is responsible for determining appropriate safety measures and for applying the legislation covering his own activities. We recommend that user makes tests to determine the suitability of a product for its particular purpose prior to use.

END OF SDS



PRO PRIMER E RESIN - PART B

Date prepared: JANUARY 2016

Section 1 – Identification

IDENTITY: *Product Name:* **Pro Primer E Resin - Part B**

SUPPLIER: Siplast 24 hr Emergency Phone: CHEMTREC (800) 424-9300
 1000 Rochelle Blvd.
 Irving, TX 75062

Recommended use of the chemical and restriction on use: Refer to the product technical data sheet.
 For industrial and professional users.

Section 2 – Hazards Identification

GHS Classification:

Acute toxicity, Category 4 (oral)
 Skin corrosion/irritation, Category 1B
 Skin irritation, Category 2
 Skin sensitization, Category 1
 Serious eye damage, Category 1
 Harmful to aquatic life, Category 3
 Reproductive toxicity, Category 2

H302: Harmful if swallowed.
 H314: Causes severe skin burns and eye damage.
 H315: Causes skin irritation.
 H317: May cause an allergic skin reaction.
 H318: Causes serious eye damage.
 H371: Hazardous to the aquatic environment, acute hazard.
 H361: Suspected of damaging fertility or the unborn child.

GHS Label element:

Hazard Pictograms



GHS05



GHS07



GHS08

Signal Word: Danger

Hazard Statements:

H302: Harmful if swallowed.
 H314: Causes severe skin burns and eye damage.
 H317: May cause an allergic skin reaction.
 H318: Causes serious eye damage.
 H361: Suspected of damaging fertility or the unborn child.
 H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements:

Prevention:

P102: Keep out of reach of children.
 P260: Do not breathe dust/fume/gas/mist/vapors/spray.
 P264: Wash skin thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P272: Contaminated work clothing should not be allowed out of the workplace.
 P281: Use protective equipment as required.



PRO PRIMER E RESIN - PART B

Response:

| | |
|---------------------|--|
| P301 + P315: | IF SWALLOWED: Get immediate medical advice/attention. |
| P330 + P331: | Rinse mouth. Do NOT induce vomiting. |
| P302 + P352 = P361: | IF ON SKIN: Remove/Take off immediately all contaminated clothing. Wash with plenty of water. |
| P304 + P340: | IF INHALED: Remove victim 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. |
| P332 + P313: | IF skin irritation occurs, get medical advice/attention. |
| P362: | Take off contaminated clothing and wash before reuse. |

Storage:

| | |
|-------|-----------------------------------|
| P403: | Store in a well-ventilated place. |
| P405: | Store locked up. |

Disposal:

| | |
|-------|---|
| P501: | Dispose of contents/container to an approved waste disposal site. |
| P502: | Refer to manufacturer/supplier for information on recovery/recycling. |

Section 3 – Composition / Information on Hazardous Ingredients

| COMPONENTS | CAS NUMBER | WEIGHT |
|--|------------|---------|
| 4-Tert-Butylphenol | 98-54-4 | 2.5-10% |
| m-phenylenebis(methylamine) | 1477-55-0 | 2.5-10% |
| 2,4,6-Tris-(dimethylaminomethyl)phenol | 90-72-2 | 2.5-10% |
| Trimethylhexane-1,6-diamine | 25620-58-0 | 2.5-10% |
| N'-(3-Aminopropyl)-N,N-dimethylpropane-1,3-diamine | 10563-29-8 | 2.5-10% |

Note: There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Section 4 – First Aid Measures

| | |
|----------------------------|---|
| General Advice: | Immediately remove contaminated clothing. Exposure symptoms can appear after several hours. If contaminated consult medical advice up to 48 hours after exposure. <u>First Aid:</u> Wear protective equipment (i.e. protective gloves). <u>If victim is unconscious:</u> position and transport in “stable sideways position” to prevent asphyxiation if vomiting. Keep air passages open, remove dentures and vomit. Control breathing and pulse. If breathing and heart activity stops, administer CPR and call immediately emergency services. |
| After Inhalation: | Remove subject to fresh air. Administer oxygen if difficulty with breathing. Consult a physician. |
| After Ingestion: | Immediately seek medical attention. Do not induce vomiting. Drink plenty of water to dilute stomach contents. |
| After Skin Contact: | Instantly wash skin with plenty of soap and water for at least 15 minutes. Wash clothing before reuse. |



PRO PRIMER E RESIN - PART B

After Eye Contact: Rinse opened eye with plenty of running water for at least 15 minutes, lifting upper and lower eyelids occasionally. Remove contact lenses. Consult physician.

Section 5 – Fire Fighting Measures

Extinguishing Media: Carbon dioxide (CO₂), extinguishing powder, water spray. Do not use full waterjet.

Special Fire Fighting Procedures: As in any fire, wear full protective gear and NIOSH-approved self-contained breathing apparatus with full face-piece operated in the pressure demand or other positive pressure mode.

Unusual Fire and Explosion Hazards: Bursting and explosion of container possible due to increase of pressure when exposed to increasing heat. In case of fire, cool nearby containers with water fog. Formation of poisonous gases during heating or in fires possible.

Section 6 – Accidental Release Measures

Person-related Safety Precautions: Provide plenty of fresh air. Avoid eye and skin contact. Avoid inhalation of vapors. Wear personal protective equipment. Remove or eliminate all ignition sources.

Methods for Cleaning up: Contain and collect spillage with non-combustible, absorbent materials. i.e., sand, earth, vermiculate, diatomaceous earth, universal binders, sawdust and place in container for disposal.

Waste Disposal Method: Dispose in accordance with local, state and federal regulations.

Ecological Information: Do not allow product to reach ground water, bodies of water, storm water or sewage systems.

Section 7 – Handling and Storage

Handling: Avoid eye and skin contact. Keep out of reach of children.

Storage: Store in a cool, dry enclosed area off the ground in tightly closed containers. No special measures required against explosion and fires. Store away from foodstuffs. Provide fresh air when handling in closed rooms (open windows and doors).

Materials to avoid: No data available.

Section 8 – Exposure Controls / Personal Protection

Engineering Controls: Use with adequate general and local exhaust ventilation. Washing of the skin in the working area must be possible. Eye-wash station or bottle must be available.

| | CAS NUMBER | OSHA PEL | ACGIH TLV | WEIGHT |
|-------------------------------|-------------------|-----------------------|-----------------------|---------------|
| m-phenylenebis (methylamine): | 1477-55-0 | 0.1 mg/m ³ | 0.1 mg/m ³ | 2.5-10% |



PRO PRIMER E RESIN - PART B

- Respiratory Protection:** Respirator in well ventilated areas not necessary. Wear a properly fitted NIOSH approved respirator in poorly ventilated areas or spillage.
- Skin Protection:** When installing, wear appropriate impervious gloves (neoprene) to prevent hand-skin exposure. Wear appropriate impervious clothing (acid and alkaline resistant) to prevent skin exposure (long sleeve shirt and long pants).
- Eye Protection:** Wear chemical splash goggles. Face shield as necessary.
- Work/Hygienic Practices:** Wash hands before breaks and after work, and before eating, drinking or smoking. Know the locations of eye wash fountains and emergency showers.

Section 9 – Physical and Chemical Properties

| | |
|-----------------------------|---------------------------------------|
| Physical State: | Liquid |
| Appearance/Color: | Yellowish |
| Odor: | Amine like |
| Solubility in water: | Not miscible or difficult to mix |
| Flash Point: | >120° C (>248° F) |
| Flammability: | Product is not self-igniting |
| Danger of explosion: | Product is not explosive |
| Boiling Point: | Not determined |
| Melting Point: | Not determined |
| Bulk Density: | 0.99 g/cm ³ at 20°C (68°F) |
| Viscosity: (dynamic) | 1400 cps (mPas) at 20°C (68°F) |
| VOC Concentration: | 0 g/l |

Section 10 – Stability and Reactivity

- Chemical Stability:** Stable under normal conditions.
- Conditions to Avoid:** Keep away from heat and ignition sources.
- Hazardous Decomposition:** No dangerous decomposition or emission products known if product handled as per specifications.
- Incompatibilities:** No dangerous reactions known.

Section 11 – Toxicological Information

Acute Toxicity:

| 98-54-4 | 4-tert-Butylphenole | |
|---------|---------------------|---------------------|
| Oral | LD50 | 2951 mg/kg (rat) |
| Dermal | LD50 | 2288 mg/kg (rabbit) |

Primary Irritation:

- **Skin:** Corrosive on skin and mucous membrane. Irritates skin and mucous membrane.
- **Eyes:** Strong corrosive reaction.
- **Sensibility:** Sensibility through contact with skin possible.

- Additional Information:** If ingested, highly corrosive to mouth and throat, as well as danger of perforation to esophagus and stomach.



PRO PRIMER E RESIN - PART B

Section 12 – Ecological Information

- Environment:** Toxic to aquatic systems. Do not allow product to reach into natural waterways, drains, storm water or wastewater systems.
- General notes:** Water hazard class 2 (Self-assessment): hazardous for water.

Section 13 – Disposal Considerations

- Waste Disposal Method:** Dispose of in a manner consistent with federal, state and local regulations. This includes pails containing uncured material. Pails with cured/hardened remains of product can be sent for recycling.
- Recommendation:** Product mixed with resin and fully cured is ecologically safe and can be disposed to local refuse deposit.

Section 14 – Transport Information

- USDOT (Domestic Surface):** UN 2735 Amines, liquid, corrosive, NOS, (trimethylhexanediamines, (m-phenylenebis (methylamine)) 8, PG III
- IMDG (Ocean):** UN 2735 Amines, liquid, corrosive, NOS, (N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine, m-phenylenebis (methylamine)) 8, PG III
- IATA/ICAO (Air):** UN 2735 Amines, liquid, corrosive, NOS, (trimethylhexanediamines, (m-phenylenebis (methylamine)) 8, PG III

Section 15 – Regulatory Information

All raw materials are on the U.S., EPA, TSCA Inventory.

- SARA Notification:** Nothing in this product is subject to regulation under SARA 302, 313. It may be subject to SARA 312 reporting, depending upon the purchaser's storage circumstances.
- CERCLA:** No CERCLA chemicals exist in this product above reportable concentrations.
- Clean Air Act
Ozone-Depletion Potential:** This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section (40 CFR 61).

Section 16 – Other Information

(Hazard Rating: 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe; * = Chronic)

HMIS III rating:
Health: 3* Flammability: 0 Physical hazard: 1



PRO PRIMER E RESIN - PART B

Abbreviations and acronyms:

| | |
|--------|---|
| USDOT: | United States Department of Transportation. |
| IMDG: | International Maritime Code for Dangerous Goods. |
| IATA: | International Air Transport Association. |
| CAS: | Chemical Abstracts Service (Division of the American Chemical Society). |
| LC50: | Lethal concentration, 50 percent. |
| LD50: | Lethal dose, 50 percent. |
| EC50: | Median effective concentration. |
| RQ: | Reportable quantity. |

SDS prepared by: Siplast product safety department.

DISCLAIMER:

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, expressed or implied, and we assume no responsibility for any loss, damage, or expense, direct or consequential, arising out of their use.

User is responsible for determining appropriate safety measures and for applying the legislation covering his own activities. We recommend that user makes tests to determine the suitability of a product for its particular purpose prior to use.

END OF SDS