



MATERIAL SAFETY DATA SHEET

HMIS

H = 2

F = 3

R = 1

PPE = See Section 8

VOC: Max. content less than 50 g/L
(catalyzed)

Section I

Manufacturer: Siplast, an Icopal Group Company
(800) 643-1591 or (800) 922-8800

Address: 1000 E. Rochelle Blvd., Irving, TX 75062-3940

Emergency Phone No.: CHEMTREC, (800) 424-9300 (U.S.), (703) 527-3887 (outside of U.S.)

Product Class: Liquid-applied Waterproofing System - Component

Trade Name: Parapro Roof Membrane Resin (Grey)

Section II - Ingredients

Ingredient	Percent	ACGIH TLV/TWA	OSHA PEL
Methyl methacrylate CAS #80-62-6	15 - 25	50 ppm 205 mg/m ³	100 ppm
Ethylhexyl acrylate CAS #103-11-7	10 - 20	10 ppm 82 mg/m ³ German MAK	Not Available
Various acrylates CAS #Confidential	15 - 25	Not Established	100 ppm
1,1'-(p-Tolylimino)- dipropan-2-ol CAS #38668-48-3	< 2	Not Available	Not Available
1-Isopropyl-2,2dimethyl- trimethylenediisobutyrate CAS #6845-50-0	< 2	Not Available	Not Available
Silicon dioxide, Quartz CAS #4808-60-7	< 3	0.05 mg/m ³	30 mg/m ³ %SiO ₂ +2 (total dust)
Titanium dioxide CAS #13463-67-7	< 5	10 mg/m ³ (total dust)	5 mg/m ³ (total dust)

Crystalline Silica as Quartz has been found to be carcinogenic according to NTP and IARC. This same component is not classified as carcinogenic by OSHA. See Section V.

Section III - Physical Data

Appearance: Grey
 Odor: Methyl methacrylate
 Physical state: Liquid
 Ignition Point: 536°F (280°C)
 Evaporation Rate (Butyl Acetate = 1): Not Established
 Vapor Density (Air = 1): Not Established
 % Volatile by Volume: Not Established
 Solubility in H₂O: Insoluble
 Vapor Pressure: Not determined
 Viscosity: 25 - 35 dPas (Haake viscosimeter)
 Density: Approx. 1.4 g/ml @ 20°C

Section IV - Fire and Explosion Data

DOT Category: UN1263 Paint
 Hazard Class: 3
 Label: Flammable
 Packaging Group: II
 Flash Point: >50°F (10°C)
 Extinguishing Media: Foam, carbon dioxide, dry powder, high-pressure water spray. Use water spray only to cool containers in fire area.
 Special Procedures: Use self-contained breathing apparatus and full protective clothing.

Section V - Health Hazard Data

EMERGENCY AND HAZARDS OVERVIEW:

ROUTES OF ENTRY: Skin and eye contact with liquids, and inhalation.

Human Effects and Symptoms of Overexposure: This product is harmful when inhaled or ingested and can cause skin, eye, and respiratory irritation as well as skin and respiratory sensitization.

This product contains:

Methyl methacrylate and ethylhexyl acrylate, which may cause skin, eye, and respiratory irritation. High concentrations can cause symptoms of central nervous system depression, such as headache, nausea, dizziness, drowsiness, and confusion.

Both acrylates can cause dermal and respiratory sensitization. Once a person is sensitized, contact with even a small amount may cause outbreaks of dermatitis with symptoms such as skin redness, itching, rash, and swelling. This can spread from the hands or arms to other parts of the body. Persons with respiratory sensitization can experience symptoms of bronchial asthma such as wheezing, difficult breathing, sneezing and runny or blocked nose at low airborne concentrations that have no effect on unsensitized people.

Various acrylates, which may cause skin, eye, and respiratory irritation and sensitization.

1,1'-(p-Tolylimino)-dipropan-2-ol which is toxic when ingested or inhaled.

1-Isopropyl-2,2dimethyltrimethylenediisobutyrate, which according to the manufacturer, may cause skin irritation.

Titanium dioxide, which may cause lung damage and has an ACGIH exposure limit. However, this product is sold as a liquid preparation and, when used as intended, does not generate dust. Thus the product as such does not pose a respiration hazard attributable to these components.

Cristalline silica as Quartz, which may cause mechanical irritation of the eyes. High concentrations of dust may cause coughing and mild, temporary irritation. Quartz dust can accumulate in the lungs. Prolonged or repeated exposure to fine airborne crystalline silica dust may cause severe scarring of the lungs, a disease called silicosis.

LD₅₀ oral, rat for 1,1'-(p-Tolylimino)-dipropan-2-01: 100 mg/kg

NOTE: This product is sold as a liquid preparation and, when used as intended, does not generate dust. Thus the product does not pose a respiration hazard attributable to the above two components.

Carcinogenicity:

NTP: Yes (Quartz)

IARC: Yes (Quartz)

OSHA: No

Emergency and First Aid Procedures:

SKIN: Remove contaminated clothing and shoes. Wash with soap or mild detergent and large amounts of water. Do not use solvents or thinners. Get medical attention if irritation occurs. Wash clothing before reuse.

EYES: Hold eyes open and flush for at least 15 minutes with large amounts of water. Seek medical attention.

INHALATION: Remove to fresh air immediately. If breathing has stopped, give artificial respiration. If breathing is difficult, administer oxygen. Consult physician if irritation of respiratory passage occurs.

INGESTION: Do not induce vomiting. Give two glasses of water to dilute stomach contents. Never give anything by mouth to an unconscious person. Consult a physician immediately.

Section VI - Reactivity Data

Stability: Stable

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, oxides of nitrogen, hydrocarbon by-products, and black smoke.

Polymerization: Avoid high temperatures. Product may polymerize at > 140°F (60°C). Polymerization is exothermic and may cause container damage and/or fire.

Materials to Avoid: Avoid strong acids, bases, and oxidizing agents to avoid exothermic reactions. Avoid initiators that produce free radicals, and avoid peroxides and metal-ions.

Section VII - Spill or Leak Procedures

Steps to be Taken

Wearing appropriate personal protective equipment, contain spills onto inert absorbent and place in suitable containers.

Disposal Information: Incinerate or dispose of in accordance with Federal, State, or Local regulations.

Waste Disposal Methods: Avoid contamination of ground water or waterways.

Section VIII - Special Protection Information

Respirator: If 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.

Engineering Controls: Use local exhaust ventilation or respiratory protection to maintain employee exposure below TLV.

Skin Protection: Clothing suitable to prevent skin contact. Use butyl rubber gloves and apply barrier creams. Do not use PE or PVC gloves as these materials absorb acrylates. Check suitability recommendations by protective equipment manufacturers, especially toward chemical breakthrough resistance.

Eye: Safety goggles with side shields.

Section IX - Special Precautions

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. Avoid breathing fumes. Do not eat, drink, or smoke in application area.

Storage: Store closed containers in cool, dry area away from heat, direct sunlight, oxidizing agents, and strong acids and alkalis. Keep away from open fire, flame, or any ignition source. Keep in well-ventilated areas.

Regulatory Information (Not meant to be all inclusive):

The components of this product are in compliance with the TSCA Chemical Inventory rules. One of the components of this product, identified below, is exempt from the TSCA Inventory listing requirements under the provisions of the TSCA Polymer Exemption (PE), 40 CFR 723.250.

This product contains the toxic chemical listed below, which is subject to the supplier notification requirements of Section 313 of the Superfund Amendments and Reauthorization Act (EPCRA/"SARA") and the requirements of 40 CFR Part 372.

<u>PRODUCT</u>	<u>CAS #</u>	<u>MAX %</u>
Methyl methacrylate	80-62-6	25

The information and recommendations contained herein are, to the best of Siplast's knowledge and belief, accurate and reliable as of the date issued. Siplast does not warrant or guarantee their accuracy or reliability, and should not be liable for any loss or damage arising out of the use thereof. User should satisfy himself that he has all current data relevant to his particular use.