



MATERIAL SAFETY DATA SHEET

HMIS

H = *

F = 0

R = 0

PPE = See Section 8

*Refer to special statement.

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: Terapro VTS Quartz Filler

Section II - Ingredients

Ingredient	NTP/IRAC OSHA CARC.	Percent	ACGIH TLV	OSHA PEL TWA
Crystalline Silica CAS #14808-60-7	Yes	> 90	0.05 mg/m ³ TWA respirable fraction	<u>10 mg/m³</u> %SiO ₂ +2

*Special Statement regarding Hazardous Ingredients:

Although these products are composed primarily of Silica Sand (SiO₂), and such sand is potentially a source for respirable dust, the sand particles are thoroughly encapsulated in a coating that captures all dust and should, under normal circumstances, prevent any normal release of silica dust to the workplace. See page two, Section VIII for further information on handling.

NIOSH has recommended a PEL of 0.05 mg/m³ as determined by a full shift sample up to 10-hour working day, 40 hours per week.

PEL means OSHA Permissible Exposure Limit

TLV means American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value

TWA means 8-hour Time Weighted Average

Section III - Physical Data

Appearance & Odor: White to tan; granular to powder; odorless

Vapor Pressure: N/A

Vapor Density (Air = 1): N/A

Specific Gravity (H₂O=1, at 4°C): 2.65

Solubility in H₂O: Insoluble

Boiling Point: 2230°C

Melting Point: 1710°C

Evaporation Rate: (Butyl Acetate = 1) N/A

Section IV - Fire and Explosion Data

DOT Category: Not a hazardous material for purpose of transportation.

Flash Point: None

Autoignition Temperature: Will not burn.

LEL %: N/A UEL %: N/A

Extinguishing Media: Will not burn. May be used to extinguish fires.

Unusual Fire or Explosion Hazards: None

Hazardous Combustion Products: Silica will dissolve in hydrofluoric acid producing a corrosive gas - silicon tetrafluoride.

Section V - Health Hazard Data

Summary of Risk:

This product is harmful when inhaled. (See further information in this section.)

Effects of Overexposure:

SKIN: No known adverse effects.

EYES: May cause abrasion and irritation.

INGESTION: No known adverse effects for normal, incidental ingestion.

INHALATION: Breathing crystalline silica dust may cause irritation of nose, throat, and respiratory passages. Prolonged breathing of respirable crystalline silica dust may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of respirable crystalline silica dust may have the following serious chronic health effects:

Silicosis: Excessive inhalation of respirable crystalline silica dust may cause a progressive, disabling, and sometimes-fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function. This disease is exacerbated by smoking. Individuals with silicosis are predisposed to develop tuberculosis.

Cancer: The International Agency for Research on Cancer (IARC) has determined that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1 - carcinogenic to humans). Refer to IARC Monograph volume 68 (1997), "Silica, Some Silicates and Organic Fibers". The National Toxicology Program (NTP) classifies respirable crystalline silica as "known to be a human carcinogen". The American Conference of Governmental Industrial Hygienists (ACGIH) classifies crystalline silica as a suspected human carcinogen (A2).

Scleroderma and Kidney Disease: There is some evidence that breathing respirable crystalline silica or the disease silicosis is associated with an increased incidence of scleroderma (an immune system disorder manifested by fibrosis of the lungs, skin, and other internal organs) and kidney disease.

For further information consult "Adverse Effects of Crystalline Silica Exposure" published by the American Thoracic Society Medical Section of the American Lung Association, American Journal of Respiratory and Critical Care Medicine, volume 155, pages 761-765, 1997.

Emergency and First Aid Procedures:

SKIN: No first aid should be needed since this material does not affect the skin. Wash exposed skin with soap and water as needed.

EYES: Flush eyes with large amounts of water. If irritation persists, get medical attention.

INHALATION: If there is gross inhalation of crystalline silica dust causing coughing and shortness of breath, remove victim to fresh air. If breathing has stopped, perform artificial respiration. Seek medical attention.

INGESTION: If large amounts are swallowed, get medical attention.

Section VI - Reactivity Data

Stability: Stable X Unstable _____

Conditions to Avoid: None

Materials to Avoid: Powerful oxidizing agents such as fluorine, chlorine trifluoride, manganese trioxide.

Hazardous Decomposition Products: Silica will dissolve in hydrofluoric acid producing a corrosive gas - silicon tetrafluoride.

Hazardous Polymerization:

May occur _____ Will not occur X

Section VII - Spill or Leak Procedures

Steps to be Taken:

Cleanup and Spill Information: Collect using dustless methods (HEPA vacuum or flush with water) to minimize generation of airborne respirable dust and put into closable container. Do not dry sweep.

Waste Disposal Method: If uncontaminated, dispose as an inert, non-metallic mineral in accordance with federal, state, and local regulations. If contaminated, the user must assess the proper disposal for the material appropriate for the contamination.

Waste Management:

Section VIII - Special Protection Information

Engineering Controls:

Ventilation: Use sufficient local mechanical exhaust as required to maintain level of respirable crystalline silica dust below the Permissible Exposure Limit. See ACGIH "Industrial Ventilation - A Manual for Recommended Practice" (latest edition).

Protection Clothing/Equipment:

Eye Protection: Safety glasses with side shields or goggles recommended.

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Protective Gloves: Not normally necessary
Respiratory Protection: Use appropriate NIOSH approved respiratory protection for respirable crystalline silica. See OSHA (29 CFR 1910.134), MSHA (30 CFR Parts 56 and 57), ANSI (Z88.2), and NIOSH "Respirator Decision Logic."
Other Protective Equipment/Clothing: As appropriate for work environment.

Section IX - Special Precautions

Handling & Storage Precautions:
Do not breathe dust. Use adequate ventilation and dust collection. Avoid breakage of bagged material and spills of bulk material. Use good housekeeping to prevent accumulation of dust in work area. Avoid creation of respirable dust. Monitor respirable crystalline silica dust in the workplace on a frequent regular basis. **WARN AND TRAIN YOUR EMPLOYEES (AND YOUR CUSTOMERS IN THE CASE OF RESALE) OF THE HAZARDS AND OSHA PRECAUTIONS TO BE USED.** See OSHA Hazard Communication Standard 29 CFR 1910.1200, 1915.99, 1917.28, 1918.90 1926.59, and 1928.21 as well as state and local worker or community "right to know" laws and regulations.

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