



Innovative Composite Solutions

Section I

Neptune Research 1346 South Killian Drive Lake Park, Florida 33403	Emergency Telephone Number – 800-535-5053 Telephone Number for Information – 800-328-0090 / 561-683-6992
Product Name – Syntho-Steel Epoxy Mastic Resin Part A	Date Prepared – 10.21.10

Section II—Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s) CAS#)	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Bisphenol A Epoxy Resin (250678-38-6)	N/A	N/A	N/A	<30
Iron Powder (7439-89-6)	19 mg/m3 (skin)	19 mg/m3 (skin)	N/A	>60
Titanium Dioxide (13463-67-7)	N/A	N/A	N/A	<5
Hydrophobic Silicon Dioxide (67762-90-7)	N/A	20 mppcf	N/A	<5

Section III—Physical/Chemical Characteristics

Vapor Pressure (mm Hg) – ND	Specific Gravity (H20 = 1) – 17 lb/gal	Vapor Density (AIR = 1) – ND	Melting Point – N/A
Evaporation Rate (Butyl Acetate = 1)	Ether =1 – N/A	Boiling Point – >200°C	
Solubility in Water: Insoluble			
Appearance and Odor – Dark paste with no odor			

Section IV—Fire and Explosion Hazard Data

Flash Point – >200°C	Flammable Limits - N/A	LEL - N/A	UEL - N/A
Extinguishing Media: Foam, dry chemical, and water spray.			
Special Fire Fighting Procedures: Firefighters should wear butyl rubber boots, gloves, and body suit and a self-contained breathing apparatus.			

Section V—Reactivity Data

Stability: Stable
 Hazardous Decomposition or Byproducts: Fumes produced when heated may include oxides of carbon, acrid smoke and fumes.
 Incompatibility (Materials to Avoid) Oxidizing Agents (i.e. perchlorates, nitrates etc.).
 Hazardous Polymerization: Will not occur
 Conditions to Avoid: Excessive heat. Uncontrolled curing in masses greater than 2 inches thick.

Section VI—Health Hazard Data

Route(s) of Entry: Skin and Eye contact
 Acute Skin Contact: Repeated exposure may cause skin irritation.
 Chronic Skin Contact: None anticipated
 Acute Eye Contact: Contact with eyes causes irritation and pain.
 Acute Ingestion: May cause gastrointestinal irritation if swallowed.
 Inhalation: Inhalation of mists may cause irritation in the respiratory tract.
 Carcinogenicity: Not listed
 NTP – No IARC Monographs – No OSHA Regulated – No
 Medical Conditions Generally Aggravated by Exposure – Not Determined
 Emergency and First Aid Procedures -

Ingestion: In the event of ingestion, administer 3-4 glasses of water. Do not induce vomiting. Seek medical advice.
Inhalation: Move patient to fresh air. If breathing has stopped or is labored give assisted respiration (e.g. mouth to-mouth). Supplemental oxygen may be indicated. Seek medical advice. Prevent aspiration of vomit. Turn victim's head to the side.
Skin contact: Remove contaminated clothing and shoes. Remove product and immediately flush affected area with water for at least 15 minutes. If irritation persists, get medical attention.
Eye contact: Flush with copious amount of water. Preferably lukewarm, for at least 15 minutes, holding eyelids open at all times.

Section VII—Precautions for Safe Handling and Use

Steps to Take if Material Is Released or Spilled – Absorb with material such as sand, or polypropylene or polyethylene fiber products. Collect in suitable and properly labeled containers. Flush contaminated area with water.
 Waste Disposal Method – In accordance with federal, state and local regulations.
 Precautions to Be Taken in Handling and Storing – Avoid contact with eyes, skin or clothing. Avoid breathing vapor mist or spray. Use with good ventilation. Wash after handling and before eating, drinking or smoking. Keep in cool, dry, ventilated storage and in closed containers.
 Transportation Information – DOT (49 CFR 172) - Unrestricted, IATA – Unrestricted

Section VIII—Control Measures

Respiratory – N/A Monitoring – N/A Medical Surveillance – N/A
 Skin protection – Appropriate impervious gloves. Because a variety of protective gloves exist, consult glove manufacturer to determine the proper type for a specific operation.
 Eyes – Safety glasses or goggles.
 Ventilation – Local exhaust sources regarding industrial ventilation (i.e. ACGIH Industrial Ventilation) should be consulted for guidance about adequate ventilation.

Section IX—Other Information

The information contained herein is based on the data available to us and is believed to be accurate. The data is offered in good faith as typical values and not product specification. The information in this data sheet was compiled from the information supplied by the vendors of the components of this compound. Neptune Research, Inc. makes no warranty either expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. The recommended industrial hygiene and safe handling procedures are believed to be genuinely applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate. Neptune Research, Inc. assumes no responsibility for injury from the use of the product described herein. This information is intended only to assist in the safe handling of this material.