



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 Sub-Sea Epoxy Part A (Resin)	Date Prepared – 12.30.2011

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-(epichlorhydrin) epoxy resin (25068-38-6)	N/A	N/A	N/A	25-50
Microcrystalline Silica Quartz (14808-60-7)	10%SiO ₂ +2 mg/m ³	0.025 mg/m ³	0.05 mg/m ³ REL	25-50
Benzyl alcohol (100-51-6)	N/A	N/A	10 ppm WEEL	≤2.5
Silicon dioxide, chemically prepared (7631-86-9)	N/A	N/A	N/A	≤2.5

Section III—Physical/Chemical Characteristics

Vapor Pressure (mm Hg) – 0.03 mm Hg @ 70°F	Specific Gravity (H ₂ O = 1) – ND	Vapor Density (AIR = 1) – ND	Appearance and Odor – Liquid with mild odor
Evaporation Rate (Butyl Acetate = 1) , Ether =1 – N/A	Boiling Point – >260°C (>500°F)	Melting Point – N/A	
Solubility in Water: Not miscible or difficult to mix	Solid content: 97.2%	Solvent content: Organic solvents: 2.1%; VOC: 2.1% (21.1 g/l; 0.18 lb/g)	

Section IV—Fire and Explosion Hazard Data

Flash Point – 249°C (480°F)	Flammable Limits -	LEL - ND	UEL – ND
Extinguishing Media: Carbon Dioxide, alcohol resistant foam, dry chemical. Water spray for large fires.			
Special Fire Fighting Procedures: Use self-contained breathing apparatus and full protective gear. Water can be used to cool and protect exposed.			

Section V—Reactivity Data

Stability: Stable		
Hazardous Decomposition or Byproducts: Carbon monoxide, aldehydes, acids and other organic substances may be formed during combustion or elevated temperature degradation. Heating resin above 300° F in the presence of air may cause slow oxidative decomposition. Above 500°F polymerization may occur.		
Incompatibility (Materials to Avoid) Can react vigorously with strong oxidizing agents, strong Lewis or mineral acids and strong mineral, organic bases, especially primary and secondary aliphatic amines. Reactions with some curing agents may produce considerable heat. Runaway reactions may char and decompose the resin system, generating unidentified fumes and vapors that could be toxic.		
Hazardous Polymerization: Will not occur	Conditions to Avoid: None.	

Section VI—Health Hazard Data

Route(s) of Entry: Skin and Eye contact			
Acute Skin Contact: Skin contact may cause moderate irritation. Contact with similar products has been associated with skin sensitization. Sensitization may result in rashes and hives. Contact with hot product may cause thermal burns. Irritating to skin and mucous membranes.			
Chronic Skin Contact: May cause an allergic skin reaction.			
Acute Eye Contact: Eye contact may cause irritation. Contact with hot product may cause thermal burns.			
Acute Ingestion: Ingestion is unlikely. This product is considered to have a low toxicity based on laboratory tests.			
Inhalation: May be harmful if inhaled.			
Carcinogenicity: Not listed	NTP – No	IARC Monographs – No	OSHA Regulated – No
Medical Conditions Generally Aggravated by Exposure – Preexisting eye, skin and respiratory disorders may be aggravated by exposure to this product. Preexisting skin or lung allergies may increase the chance of developing increased allergy symptoms from exposure.			

Emergency and First Aid Procedures -

Ingestion: Call a physician or poison control center immediately. If swallowed do not induce vomiting unless directed to do so by medical personnel. In general, no treatment is necessary unless large quantities of product have been ingested. Get medical advice.
Inhalation: Move to an area free from risk of further exposure. Administer oxygen or artificial respiration as needed. Obtain medical attention.
Skin contact: Remove contaminated clothing. Wash affected skin thoroughly with soap and water. Wash contaminated clothing thoroughly before reuse. Seek medical attention if irritation develops or persists after area is washed.
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 – Wear respirator and personal protective equipment as appropriate to prevent skin and eye contact. Shut off the source of leak if safe to do so. Dike and contain. Remove with vacuum pumps or truck to salvage vessel. Soak up residue with absorbent clay, sand or other suitable material. Dispose of properly. Flush area with water to remove trace residue.
Waste Disposal Method – In accordance with federal, state and local regulations. Must not be disposed together with household garbage.
Precautions to Be Taken in Handling and Storing – May cause irritation. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Launder contaminated clothing before reuse. Contaminated leather articles, such as shoes, cannot be decontaminated and should be destroyed to prevent use. Keep away from open flames and high temperatures. Melted material may cause thermal burns. Store in a cool, dry, well-ventilated area. Store away from direct sunlight and other sources of ultraviolet light. Containers, even those that have been emptied, can contain hazardous product residues. Handle in accordance with the hazard potential of curing agents used. If the resin is handled, shipped, or stored in bulk, the recommended pumping temperature is 180°F max. 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.