



Material Safety Data Sheet

Product: Syntho-Steel Epoxy Mastic Curing Agent Part B

MSDS Date: 07-01-08
Product Name: Syntho-Steel Epoxy Mastic Curing Agent Part B
Manufacturer: Neptune Research, Inc.

I. Product and Company Description

Neptune Research, Inc.
1683 Latham Rd.
West Palm Beach, FL 33409

Emergency Phone Number:
800-535-5053

For Product Information:
(561) 683-6992

Product Description:
Aliphatic Amine Polymide

Product Use:
Corrosion control, Sealant, Coating and Patching

Chemical Name or Synonym:
NA

Molecular Formula:
NA

II. Chemical Composition

Component	CAS#	%Composition
Polyamide Resin	68028-29-1	<70
Triethylenetetramine	112-24-3	<30
Hydrophobic Silicon Dioxide	67762-90-7	<10
Titanium Dioxide	13463-67-7	<5

III. Hazards Identification

A. Emergency Overview:

Physical Appearance and Odor:



Material Safety Data Sheet

Product: Syntho-Steel Epoxy Mastic Curing Agent Part B

Red paste with faint phenolic odor

B. Potential Health Effects:

Acute Eye:

Product is corrosive. May cause eye irritation and possible burns.

Acute Skin:

Product is corrosive. Exposure may cause skin irritation and possible burns.

Acute Inhalation:

May cause irritation of the respiratory tract.

Acute ingestion:

May cause gastrointestinal irritation if swallowed.

Chronic effects:

Not Determined

Medical Conditions Aggravated by Exposure:

Not Determined

IV. First Aid Measures

First Aid Measures for Accidental:

Eye Exposure:

Hold lids apart and immediately flush eyes with plenty of water for at least 15 minutes. Seek medical advice.

Skin Exposure:

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.

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.

Ingestion:

In the event of ingestion, administer 3-4 glasses of water. Do not induce vomiting. Seek medical advice.

Notes to Physician:

None



Material Safety Data Sheet

Product: Syntho-Steel Epoxy Mastic Curing Agent Part B

V. Fire Fighting Measures

Fire Hazard Data:

Flash Point: >200°C

Method Used: Pensky Marten Closed Cup

Flammability Limits (vol/vol%): Lower: NA Upper: NA

Extinguishing Media:

Foam, dry chemical, and water spray.

Special Fire Fighting Procedures:

Use self-contained breathing apparatus, butyl rubber boots, gloves and body suit.

Unusual Fire and Explosion Hazards:

Closed containers may rupture due to pressure buildup when exposed to extreme heat.

Hazardous Decomposition Materials (Under Fire Conditions):

Decomposition and combustion may release toxic substances.

VI. Accidental Release Measures

Cleanup and Disposal of Spill:

Absorb with material such as sand, or polypropylene or polyethylene fiber products. Collect in suitable and properly labeled containers. Flush contaminated area with water.

Dispose of materials according to the applicable Federal, State, or local regulations.

VII. Handling and Storage

Handling:

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.

Storage:

Store in cool dry area in closed containers.



Material Safety Data Sheet

Product: Syntho-Steel Epoxy Mastic Curing Agent Part B

VIII. Exposure Controls / Personal Protection

Exposure Guidelines:

Component	Exposure limits		
	ACGIH	NIOSH	OSHA-PELs
Polyamide Resin	ND	ND	ND
Triethylenetetramine	ND	ND	10 mg/m ³
Hydrophobic Silicon Dioxide	20 mppcf	ND	ND
Titanium Dioxide	ND	ND	15 mg/m ³

Engineering Controls:

Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the MSDS.

Respiratory Protection:

None normally required. In case of inadequate ventilation use NIOSH-approved respirator.

Eye / Face Protection:

Wear appropriate safety glasses with side shields or chemical goggles as described by OSHA's eye and face protection regulations in 29CFR 1910.133 or European Standard EN166. A safety shower and eye facility should be available.

Skin Protection:

Chemical resistant gloves (e.g. neoprene). For operations where extensive or prolonged contact may occur, coveralls and rubber foot coverings are recommended.

IX. Physical and Chemical Properties

Physical Appearance:	Red Paste
Odor:	Faint phenolic odor
Boiling Point:	>200°C
pH:	ND
Specific Gravity:	11.1 lb/gal
Water Solubility:	Insoluble
Melting Point Range:	ND
Vapor Pressure:	ND



Material Safety Data Sheet

Product: Syntho-Steel Epoxy Mastic Curing Agent Part B

Percent Volatiles by Volume: ND

X. Stability and Reactivity

Chemical Stability:

Stable under standard use and storage conditions.

Conditions to Avoid:

Excessive heat. Uncontrolled curing in masses greater than 2 inches thick.

Materials / Chemicals to be Avoided:

Avoid contact with oxidizing materials, strong Lewis or mineral acids.

Hazardous Decomposition Products:

Fumes produced when heated may include oxides of carbon, aldehydes, amines and nitrogen compounds.

Hazardous Polymerization:

Will not occur

XI. Toxicological Information

Acute Effects:

ND

Acute Eye Irritation:

May cause eye irritation and possible burns.

Acute Skin Irritation:

Exposure may cause skin irritation and possible burns.

Acute Dermal Toxicity:

May cause sensitization and dermatitis.

Acute Respiratory Irritation:

May cause respiratory irritation.

Acute Ingestion Toxicity:

May cause gastrointestinal irritation if swallowed.

Acute Inhalation Toxicity:

Not Determined

Acute Oral Toxicity:

Not Determined



Material Safety Data Sheet

Product: Syntho-Steel Epoxy Mastic Curing Agent Part B

Chronic Toxicity:
Not Determined

Mutagenicity:
Not Determined

XII. Ecological Information

Ecotoxicological Information:
Not Determined

Chemical Fate Information:
Not Determined

XIII. Disposal Considerations

Waste Disposal Method:
Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations.

Container Handling and Disposal:
Dispose of container and unused contents in accordance with federal, state, and local regulations.

XIV. Transportation Information

US Department of Transportation Shipping Name:

US Department of Transportation	Proper Shipping Name	Not Regulated
	Hazard Class	Not Regulated
	ID Number	Not Regulated
	Packaging Group	Not Regulated
	Label Statement	Not Regulated

XV. Regulatory Information

Federal Regulations:

SARA Title III Hazard Classes:

Fire Hazard: NO
Reactive Hazard: NO
Release of Pressure: NO
Acute Health Hazard: YES



Material Safety Data Sheet

Product: Syntho-Steel Epoxy Mastic Curing Agent Part B

Chronic Health Hazard: NO

Other Federal Regulations:

State Regulations:

None

California Prop. 65: None.

XVI. Other Information

National Fire Protection Association Hazard Ratings – NFPA(R):

Health Hazard:	2
Flammability:	1
Reactivity:	0

Key Legend Information:

N/A – Not Applicable

ND – Not Determined

ACGIH – American Conference of Governmental Industrial Hygienists

OSHA – Occupational Safety and Health Administration

TLV – Threshold Limit Value

PEL – Permissible Exposure Limit

TWA – Time Weighted Average

STEL – Short Term Exposure Limit

NTP – National Toxicology Program

IARC – International Agency for Research on Cancer

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 as product specification. The information in this data sheet was compiled from 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. The information is intended only to assist in the safe handling of this material.