

Safety Data Sheet

Syntho-Shore Primer, Part B

1. Product and Company Identification

Product Name: Syntho-Shore Primer Part B
Supplier: NRI 3875 Fiscal Court, Ste #100 Riviera Beach, FL 33404 (561) 683-6992
Emergency Phone Number: 800-535-5053
Product Description: Hardener for epoxy resin
Product Use: Intended to concrete application
Chemical Name or Synonym: N/A

2. Hazards Identification

Classification of the substance or mixture:

Skin corrosion/irritation – Category 2
 Skin sensitization - Category 1
 Serious eye damage/eye irritation – Category 1
 Acute toxicity/oral – Category 4
 Acute toxicity/dermal – Category 4
 Hazardous to the aquatic environment – Short Term (Acute) Hazard – Category 2

Label Elements:



Hazard Statements:

H315 Causes skin irritation
 H317 May cause an allergic skin reaction
 H318 Causes serious eye damage
 H302 Harmful if swallowed
 H312 Harmful in contact with skin
 H401 Toxic to aquatic life

Signal Word: Warning

Precautionary Statement:

P264 Wash thoroughly after handling
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P261 Avoid breathing dust/fume/gas/mist/vapors/spray
 P302+P352 IF ON SKIN: Wash with plenty water.
 P333+P313 If skin irritation or rash occurs: Get medical advice
 P301+P312 IF SWALLOWED: Call a Poison Center/doctor if you feel unwell.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
 P312 Call a POISON CENTER if you feel unwell.

3. Composition/ Information on Ingredients

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| Chemical Name | CAS-No | Weight % |
|---|------------|----------|
| Reaction products with polyethylenepolyamines | 68410-23-1 | 75 – 90 |
| 2,4,6-tri(dimethylaminomethyl)phenol | 90-72-2 | 7 – 15 |
| 3-(trimethoxysilyl) propylamine | 13822-56-5 | 3 – 6 |
| Calcium metasilicate | 13983-17-0 | 1.5 – 4 |

Note: The rest of the ingredients are not shown to protect confidentiality of the product. They are not a hazardous substance or mixture according to US' GHS Regulation.

4. First Aid Measures

First Aid Measures for Accidental:

Eye Contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin Contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Ingestion: Do not induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Inhalation: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Most important symptoms/effects, acute and delayed: Skin/eye irritation. May cause an allergic skin irritation.

Indication of immediate medical attention and special treatment needed: Treat symptomatically.

5. Fire Fighting Measures

Suitable Extinguishing Media: Carbon dioxide, foam, dry chemical, water fog, limestone powder. Use water spray to cool fire exposed containers.

Unsuitable Extinguishing Media: Do not use high pressure water jet as this may spread the area of the fire.

Special Protective Equipment and Precautions for Fire-fighters: Use personal protective equipment. Wear self contained breathing apparatus for firefighting if necessary with a full face-piece operated in positive pressure mode to protect against potential harmful and/or irritating fumes.

Specific Hazards Arising from the Chemical (Under Fire Conditions): Exposure to decomposition products may be harmful to health; combustion products may include but are not limited to: carbon monoxide, carbon dioxide, nitrogen oxides, ammonia, nitric acid. The formation of hydrocarbon fragments is possible in the initial states of fire (especially between 400 °C ad 700 °C); smoke may contain particles of the original material as well.

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not walk through spilled material. Shut off all ignition sources. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8). Avoid breathing mist, vapors, spray. Avoid contact with skin, eyes and clothing.

Environmental Precautions: Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas.

Methods and Materials for Containment and Cleaning Up: Halt the flow of material as soon as practical using barriers. Turn containers leak-side up to stop the escape of liquid. Prevent from spreading or entering into drains, ditches, waterways by using sand, earth or appropriate barriers. Dispose of in accordance with applicable local and federal environmental control regulations.

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7. Handling and Storage

Precautions for Safe Handling: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse empty container.

Conditions for safe storage including any incompatibilities: Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10). Store in tightly closed containers to prevent moisture absorption and loss of volatiles. Store away from heat and open flame.

8. Exposure Controls / Personal Protection

Control Parameters (Exposure Limits):

| Component | Exposure Limits | | |
|----------------------|--|-------|---|
| | ACGIH-TLV | NIOSH | OSHA-PELs |
| Calcium metasilicate | 10 mg/m ³ (TWA) (inhalable) 3 mg/m ³ (Respirable) | - | 15 mg/m ³ (total dust) 5 mg/m ³ (Respirable) |

Appropriate Engineering Controls: Ventilation must be adequate for most operations.

Personal Protective Equipment:

Respiratory Protection: In case of inadequate ventilation wear respiratory protection. Use a NIOSH approved organic vapor cartridge respirator. Self-contained breathing apparatus should also be available in case of emergency.

Eye / Face Protection: Wear safety glasses with side shields or chemical splash goggles when exposure is more likely.

Skin Protection: Wear chemical resistant gloves (nitrile-butyl rubber, neoprene, butyl rubber or natural rubber) and full body-covering clothing.

Additional protective measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

9. Physical and Chemical Properties

| | |
|---|-------------------|
| Physical State: | Paste |
| Colour: | Cream |
| Odour: | Amine like |
| Melting Point/ Freezing Point: | No data available |
| Boiling point: | No data available |
| Flammability (solid, gas): | No data available |
| Lower and Upper Explosion limits/ Flammability Limits: | No data available |
| Flash Point: | No data available |
| Auto-ignition Temperature: | No data available |
| Decomposition Temperature: | No data available |
| pH: | No data available |

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| | |
|--|-------------------|
| Kinematic Viscosity: | 10,300 cPs |
| Solubility: | No data available |
| Evaporation rate (ether=1): | No data available |
| Flammability Limits in Air: | No data available |
| Solubility in other solvents: | No data available |
| Partition coefficient (n-octanol/water): | No data available |
| Vapour Pressure: | No data available |
| Density and/or Relative Density: | No data available |
| Relative Vapour Density: | No data available |
| Specific Gravity: | 1.0 |
| Particle Characteristics: | No data available |

10. Stability and Reactivity

Reactivity: Stable

Chemical Stability: Stable under standard normal conditions.

Possibility of Hazardous reactions: Mixtures with strongly acidic or strongly alkaline materials may produce an exothermic reaction.

Conditions to Avoid: Avoid elevated temperatures and sources of ignition.

Incompatible Materials / Chemicals: Keep uncured material away from strong acids, strong bases, oxidizing agents. Reacts with epoxy.

Hazardous Decomposition Products: Thermal decomposition will generate carbon monoxide, carbon dioxide and nitrogen oxides, ammonia, nitric acid.

11. Toxicological Information

Information in the likely route of exposure:

Potential Acute Health Effects:

Inhalation: Exposure to vapors from heated product may cause irritation or sensitization of the nose and throat.

Ingestion: May cause burns to the mouth, throat and stomach.

Skin contact: Cause moderate irritation. May cause an allergic skin reaction.

Eye contact: Causes moderate to severe irritation. Direct contact with the material or exposure to vapors or mists may cause stinging, tearing, redness, blurred vision.

Symptoms related to the physical, chemical and toxicological characteristics:

Mutagenicity: No information available.

Carcinogenicity: None ingredients classified as carcinogenic. No listed by OSHA, NTP, IARC

Reproductive Toxicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Specific Target Organ Toxicity - single exposure (STOT-se): No data available

Specific Target Organ Toxicity - repeated exposure (STOT-re): No data available

Over-exposure signs / symptoms: Repeated or prolonged exposure may cause an allergic skin reaction; once sensitized, a severe allergic reaction may occur.

Delayed and immediate effects and also chronic effects from short and long term exposure:

Short term exposure: No specific data.

Long term exposure: No specific data

Numerical measures of toxicity:

Acute toxicity:

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| Ingredient | Endpoint | Species | Results | Exposure |
|---|--------------------------|---------------|----------------------------|----------|
| Reaction products with polyethylenepolyamines | LD50 Oral LD50 Dermal | Rat Rabbit | >5000 mg/kg >5000 mg/kg | - |
| 2,4,6-tri(dimethylaminomethyl) phenol | LD50 Oral LD50 Dermal | Rat Rabbit | 1653 mg/kg 1280 mg/kg | - |

12. Ecological Information

Ecotoxicity Effects:

Aquatic ecotoxicity:

| Product | Endpoint | Species | Results |
|---|---|--|-----------------------------------|
| Reaction products with polyethylenepolyamines | Acute LC50 (96hr) Acute EC50 (24hr) Acute EC50 (72hr) | Golden Orfe Daphnia magna Aquatic plants | 2.3 mg/L 31.1 mg/L 2.5 mg/L |
| 2,4,6-tri(dimethylaminomethyl) phenol | Acute LC50 (96hr) Acute EC50 (96hr) | Brachydanio rerio Palaemonetes | 153mg/L 718mg/L |

Persistence and degradability: Ingredients are no readily biodegradable.

Bioaccumulative potential: No information available.

Mobility in soil: No information available.

Other adverse effects: No information available.

13. Disposal Considerations

Waste treatment methods: Do not dump to ground, sewers or watercourses. Dispose of at a licensed waste disposal facility utilizing methods that are in compliance with all applicable federal, state and local laws regulations. Waste characterization and compliance with applicable laws are the responsibility solely of the waste generator.

Uncleaned packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

DOT:

Proper Shipping Name: Amines, liquid, corrosive n.o.s (2,4,6--tri(dimethylaminomethyl) phenol)

UN number: UN2735

Hazard Class: 8

Packing Group: PG III

ERG No 153

IMDG:

Proper Shipping Name: Amines, liquid, corrosive n.o.s (2,4,6--tri(dimethylaminomethyl) phenol)

UN number: UN2735

Hazard Class: 8

Packing Group: PG III

EmS No.: F-A, S-B

IATA:

Proper Shipping Name: Amines, liquid, corrosive n.o.s (2,4,6--tri(dimethylaminomethyl) phenol)

UN number: UN2735

Hazard Class: 8

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EmS No.: F-A, S-B

15. Regulatory Information

TSCA Status: All components are listed on TSCA Inventory or otherwise comply with TSCA requirements.

SARA Title III Section 313: No reportable components

OSHA/IARC Carcinogen Status: None ingredient listed

NJ Right to know: Contains traces of triethylene tetramine (CAS:112-24-3) which is listed by NJ Right to Know.

16. Other Information

Key Legend Information:

N/A – Not Applicable

ND – Not Determined

OSHA – Occupational Safety and Health Administration

NIOSH – National Institute for Occupational Safety and Health

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. NRI 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. NRI 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.

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