

Safety Data Sheet
Syntho-Poxy™ HC Resin - Part A

Section 1. Identification of the substance/mixture and of the company/undertaking

Product Name: Syntho-Poxy HC Hardener – Part A
Supplier: NRI 3875 Fiscal Court, Ste #100
Riviera Beach, FL 33404
(561) 683-6992
Emergency Phone Number: 800-535-5053
Product Description: Epoxy solution
Product Use: Filler
Chemical Name or Synonym: Hardener solution

Section 2. Hazards identification

Classification of the substance or mixture

Skin Irritation - Category 2
Eye irritation – Category 2A
Skin Sensitizer - Category 1
Acute aquatic toxicity - Category 2
Chronic aquatic toxicity - Category 2
Physical hazards: None

Hazard pictograms:



Signal Word: Warning

Hazard Statements:

H314 - Causes skin irritation
H318 - Causes serious eye damage
H317 - May cause an allergic skin reaction
H401 – Toxic to aquatic life
H411 – Toxic to aquatic life with long lasting effects

Precautionary Statement:

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash hands thoroughly after handling.

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Wear protective gloves/protective clothing/eye protection/face protection.
 Avoid breathing dust/fume/gas/mist/vapors/spray.
 IF ON SKIN: Wash with plenty of water.
 Specific treatment (see First-aid on this label).
 If skin irritation occurs: Get medical advice/attention.
 Take off contaminated clothing. And wash it before reuse.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
 Continue rinsing.
 If eye irritation persists: Get medical advice/attention.
 If skin irritation or a rash occurs: Get medical advice/attention.
 Collect spillage

Section 3. Composition/ Information on Ingredients

Component	CAS #	% Composition
EpoxyResin, proprietary	Proprietary	50 – 70
Ceramic fibers (airborne particles of respirable size)	66402-68-4	25 – 40
Glycidyl Ether	Proprietary	1 – 5
Siloxanes and Silicones, di-Me, reaction products with silica	Proprietary	1 – 5

*Note: Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality

Section 4. First Aid Measures

First Aid Measures for Accidental:

General advice: If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.

Eye Exposure: Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 30 minutes or until medical aid is available. Take care not to rinse contaminated water into the unaffected eye or onto the face. Immediately call a POISON CENTER/doctor.

Skin Exposure: Take off immediately all contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Rinse skin with lukewarm, gently flowing water for a duration of 30 minutes or until medical aid is available. Immediately call a POISON CENTER/doctor. Wash contaminated clothing before re-use or discard.

Inhalation: Remove source of exposure or move person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

Ingestion: Do not induce vomiting. Give large amounts of water followed by milk if available. Do not give anything to a victim who is drowsy, unconscious, or convulsing. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Seek medical attention immediately.

Protection of first-aiders: Use personal protective equipment. Avoid contact with skin, eyes and clothing.

Most important symptoms/effects, acute and delayed: No data available.

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Indication of immediate medical attention and special treatment needed: In case of inhalation of decomposition products in a fire, symptoms may be delayed

Section 5. Fire Fighting Measures

Extinguishing media: Chemical, foam, carbon dioxide water spray or fog is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam. Sand or earth may be used for small fires only. Do not use water jet. Water may cause frothing.

Special Fire Fighting Procedures: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special Protective Equipment for Fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Use self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: No Determined

Hazardous Decomposition Materials (Under Fire Conditions): Hazardous decomposition products formed under fire conditions.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

Cleanup and Disposal of Spill: In the event of a spill, immediately remove any source of ignition. Using appropriate personal protective equipment and non-sparking tools, contain spilled material. Cover the liquid with inert absorbent. Scoop all contaminated material into containers for proper disposal.

Section 7. Handling and Storage

Precautions for safe handling: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Conditions for safe storage including any incompatibilities: Do not store above 100°F for maximum stability. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

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Section 8. Exposure Controls / Personal Protection

Exposure guidelines:

Component	Exposure limits		
	ACGIH	NIOSH	OSHA-PELs
Ceramic fibers (airborne Particles of Respirable size)	0.5mg/m ³ (TWA)	-	-

Appropriate engineering controls: Ensure adequate ventilation, especially in confined areas.

Personal protective equipment:

Eye and face protection: Safety glasses with side-shields. Risk of contact: Tightly fitting safety goggles.

Skin protection: Wear impervious clothing as necessary to protect against product contact. Refer to CFR1910.132 and CFR1910.136 for OSHA approved standards on protective clothing and footwear. Wear chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Respiratory protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical State:	Paste
Appearance:	Black paste
Odour:	No data available
Odour threshold:	No data available
pH:	No data available
Melting point range:	No data available
Boiling point/boiling range:	No data available
Flash Point:	No data available
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Relative density:	No data available
Specific Gravity:	No data available
Solubilities:	No data available
Partition coefficient (n-octanol/water):	No data available
Auto-ignition temperature:	No data available

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Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	No data available
Oxidizing properties:	No data available
VOC Content (%):	0.50%
VOC Actual:	7.36 g/l
% Solids by weight:	99.49%

Section 10. Stability and Reactivity

Reactivity: Stable

Hazardous Polymerization: Will not occur under normal conditions.

Chemical stability: Stable under normal conditions.

Conditions to avoid: Avoid contact with heat, flame, spark and other igniter. Avoid radical forming substances (metal-ions, peroxides). Uncontrolled polymerization may cause rapid evolution of heat and increase in pressure that could result in violent rupture of sealed storage vessels or containers.

Incompatible materials: Avoid oxidizing agents, acids and bases.

Hazardous decomposition products: Carbon monoxide, carbon dioxide and various hydrocarbons upon thermal decomposition.

Section 11. Toxicological Information

Information on toxicological effects: Inhalation, ingestion or skin absorption

Aspiration Hazard: No data available.

Potential Acute Health Effects

Ingestion: May cause gastrointestinal disturbances such as nausea, vomiting, diarrhea and effects similar to those described in inhalation.

Inhalation: Aspiration of this product into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury, possibly progressing to death.

Numerical measures of toxicity: No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

Respiratory/Skin Sensitization: Inhalation of vapors may cause irritation of the respiratory tract. May cause an allergic skin reaction

Skin corrosion/irritation: Causes skin irritation.

Eye damage/irritation: Causes serious eye irritation.

Mutagenicity: No data available.

Carcinogenicity: No data available.

Reproductive Toxicity: No data available.

Teratogenicity: No known significant effects or critical hazards.

Specific Target Organ Toxicity - single exposure (STOT-se): Exposure to high concentrations of vapors may cause central nervous system effects, including headache, drowsiness, and incoordination.

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

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Over-exposure signs / symptoms: Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

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

Section 12. Ecological Information

Ecotoxicity: Toxic to aquatic life. Toxic to aquatic life with long lasting effects

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Other adverse effects: No data available

Section 13. Disposal Considerations

Waste treatment methods: Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Uncleaned packagings: Do not re-use empty containers for food, clothing, or products for human or animal consumption, or where skin contact can occur. Empty containers could retain product residues. Dispose of container and unused contents in accordance with federal, state, and local regulations.

Section 14. Transport Information

IATA

UN-Number: UN3082

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. ★

Hazard Class: 9

Packing Group: III

Special Provisions:

A97

A158

A197 (375) These substances when transported in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

IMDG/IMO

UN-Number: UN3082

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.

Hazard Class: 9

Packing Group: III

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ERG Code: 9L

Section 15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture:

Chemical Name	Regulation List
Epoxy Resin, proprietary	SARA312, TSCA
Ceramic fibers (airborne particles Of respirable size)	SARA313, CERCLA, HAPS, SARA312, TSCA, SARA313_PBT - SARA313_Persistent, Bioaccumulative, and Toxic (PBT) Chemicals ,ACGIH
Glycidyl Ether	SARA312,TSCA
Siloxanes and Silicones, di-Me, reaction products with silica	SARA312,TSCA

Section 16. Other Information

Key Legend Information:

N/A – Not Applicable

ND – Not Determined

NE- Not established.

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

IARC – International Agency for Research on Cancer

IATA – International Air Transportation Association

IMO – International Maritime Organization

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.

Rev9 10.01.2018