

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

- 1.1. Product identifier** Syntho-Steel
- 1.2 Relevant identified uses:** Intended to repair pipes
- 1.3. 1.3 Supplier details:** NRI
3875 Fiscal Court Suite #100
Riviera Beach, FL 33404. USA.
1- 561 - 683 - 6992
europe@neptuneresearch.com
- 1.4. Emergency telephone number** +48 33 488 12 85 (only available during office hours)

Section 2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1 Regulation (EC) No 1272/2008

Skin corrosion/irritation – Category 2
Eye damage/eye irritation – Category 2A
Skin sensitization - Category 1
Chronic Aquatic Toxicity – Category 2

Physical hazards: None

2.2 Label Elements: Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



Signal word: Warning

Hazard statements:

H315 Causes skin irritation.
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H411 Toxic to aquatic life with long lasting effects

Precautionary statement:

P362 - Take off contaminated clothing and wash before reuse
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

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P273 - Avoid release to the environment

P391 - Collect spillage

2.3. Other information: N/A

Section 3. Composition/ Information on Ingredients

3.1. Substances: Not Applicable

3.2. Mixtures

Component	EC No	CAS #	Weight %	EU-GHS Substance Classification	REACH Number
Bisphenol A - Epichlorohydrin polymer	-	25068-38-6	45 - 65	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)	Not data available
Crystalline silica non- respirable	-	14808-60-7	0.1-1	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE. 3 (H335)	Not data available
Talc, not containing asbestiform fibres	-	14807-96-6	30-60	Not classified	Not data available
Glass, oxide, chemicals	-	65997-17-3	10 - 30	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	Not data available
Nepheline syenite	-	37244-96-5	1 - 5	Not classified	Not data available

For the full text of the H-Statements mentioned in this Section, see Section 16

Section 4. First Aid Measures

4.1. Description of 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.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Ingestion: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects

persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Eye Exposure: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Skin Exposure: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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

4.2 Most important symptoms/effects, acute and delayed:

Inhalation: No known significant effects or critical hazards.

Skin contact: Causes skin irritation. May cause an allergic skin

Eye contact: Causes serious eye irritation.

Ingestion: Irritating to mouth, throat and stomach.

4.3 Indication of immediate medical attention and special treatment needed: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Section 5. Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media: None known.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: Decomposition products may include carbon dioxide, carbon monoxide, sulfur oxides, halogenated compounds, metal oxides.

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

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment: Use personal protective equipment (See Section 8) to prevent any contamination of skin, eyes and personal clothing.

Emergency procedures: Remove ignition sources. Provide sufficient ventilation, control dust. Evacuate personnel to safe areas.

For emergency responders: Use appropriate personal protective clothing. Use gloves and safety glasses.

6.2 Environmental precautions: Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Avoid release to the environment.

6.3. Methods and materials for containment and cleaning up

For containment: Cover drains. Prevent contamination of soil and water.

For cleaning up: Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Other Information: Clear spills immediately.

6.4 Reference to other sections: See Section 12 for additional information. Dispose of in accordance with applicable local and federal environmental control regulations.

Section 7. Handling and Storage

7.1 Precautions for safe handling

Handling: Handle in accordance with good industrial hygiene and safety practice. Do not breathe vapors or spray mist. Use only in area provided with appropriate exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not take internally.

Hygiene measures: When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing. Wash thoroughly after handling.

7.2 Conditions for safe storage including any incompatibilities: Do not store above the following temperature: 35°C (95°F). Store in accordance with local regulations. 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.

Section 8. Exposure Controls / Personal Protection

8.1 Control parameters

Exposure limits:

Component	Exposure limits		
	ACGIH	NIOSH	OSHA-PELs
Silica, crystalline quartz	TLV 0.025 mg/m ³ (TWA respirable)	0.05mg/m ³ (respirable dust)	30 mg/m ³ TWA (total dust) 10 mg/m ³ TWA (respirable)

Derived no effect level: No information available.

Predicted No Effect Concentration (PNEC): No information available.

8.2 Exposure controls

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

8.2.2 Personal protective equipment

Eye and face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection: 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.

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Respiratory protection: Use a properly fitted, particulate filter 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.

8.3 Environmental exposure controls: Do not allow material to contaminate ground water system.

Section 9. Physical and Chemical Properties

a) Appearance:	Grey/black putty	
b) Odour:	Sulfur/pungent.	
c) Odour threshold:	No data available	
d) pH:	No data available	None known
e) Melting point range:	No data available	None known
f) Initial Boiling point/boiling range:	No data available	None known
g) Flash Point:	>93.3°C (>199.9°F)	Closed cup
h) Evaporation rate:	<1 (Butyl Acetate = 1)	None known
i) Flammability (solid, gas):	Extremely flammable in the presence of the following materials or conditions: open flames, sparks and static discharge	
j) Upper/lower flammability or explosive limits:	No data available	None known
k) Vapour pressure:	No data available	None known
l) Vapour density:	No data available	None known
m) Relative density:	2.247	No data available
n) Solubilities:	No data available	None known
o) Partition coefficient (n-octanol/water):	No data available	None known
p) Auto-ignition temperature:	No data available	None known
q) Decomposition temperature:	No data available	None known
r) Viscosity:	No data available	None known
s) Explosive properties:	No data available	None known
t) Oxidizing properties:	No data available	None known

Section 10. Stability and Reactivity

10.1 Reactivity: No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability: Stable under normal conditions.

10.3 Possibility of hazardous reactions: None under normal processing. Hazardous polymerization will not occur by itself.

10.4 Conditions to avoid: No specific data.

10.5 Incompatible materials: No specific data

10.6 Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological Information

11.1 Information on toxicological effects:

Acute toxicity:

Ingredient	Results	Species	Exposure
bisphenol-A-(epichlorhydrin); epoxy resin	Eyes - Mild irritant Skin - Moderate irritant Skin - Severe irritant	Rabbit Rabbit Rabbit	100 milligrams 24h 500 microliters 24 h 2 milligrams

Skin corrosion/irritation: Causes skin irritation. May cause an allergic skin reaction.

Serious eye damage/irritation: May cause eye irritation. Corneal injury is unlikely.

Inhalation: No known significant effects or critical hazards.

Ingestion: May cause irritation of intestinal tract.

General: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels

Germ cell mutagenicity: No known significant effects or critical hazards.

Carcinogenicity: No known significant effects or critical hazards.

Reproductive toxicity: No information available.

STOT- single exposure: No information available.

STOT- repeated exposure: No information available

Aspiration hazard: No information available.

Symptoms related to the physical, chemical and toxicological characteristics: No data available

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

12.1 Toxicity: No specific data

12.2 Persistence and degradability: No specific data

12.3 Bioaccumulative potential:

Component	LogPow	BCF	Potential
Bisphenol A (epichlorhydrin)	2.64 to 3.78	31	low

12.4 Mobility in soil: No specific data

12.5 Results of PBT and vPvB Assessment: No specific data

12.6 Other adverse effects: No specific data

Section 13. Disposal Considerations

13.1 Waste treatment methods:

Product / Packaging disposal: Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Waste codes / waste designation according to LoW: According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

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

Sewage disposal-relevant information: This product should not be allowed to enter drains, water courses or the soil.

Other disposal recommendations: Dispose of waste and residues in accordance with local authority requirements.

Section 14. Transport Information

IMDG/IMO

UN-Number: UN3082

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

Hazard Class: 9

Packing Group: III

ERG Code: 9L

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.

Section 15. Regulatory Information

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

Federal Regulations:

TSCA 8(a) PAIR: Siloxanes and silicones, di-Me, reactions products with silicanonylphenol

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted.

State Regulations:

California Prop. 65: This product contains some chemicals known to the State of California to cause cancer.

Ingredient	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Talc	Yes	No	No	No
Crystalline silica non-respirable	Yes	No	No	No

Massachusetts: The following components are listed: soapstone, mineral wool fiber

New York and Minnesota: None of the components are listed.

New Jersey: The following components are listed: soapstone; silica, quartz; quartz (SiO₂); ferrosilicon, ferrocerium.

Pennsylvania: The following components are listed: soapstone dust; quartz (SiO₂)

International Regulations:

Canada inventory: All components are listed or exempted.
Australia inventory (AICS): Not determined.
China inventory (IECSC): Not determined.
Japan inventory: Not determined.
Korea inventory: Not determined.
Malaysia Inventory (EHS Register): Not determined.
New Zealand Inventory of Chemicals (NZIoC): Not determined.
Philippines inventory (PICCS): Not determined.
Taiwan inventory (CSNN): Not determined.

Section 16. Other Information

Full text of H-Statements referred to under sections 2 and 3

H315 - Causes skin irritation
H319 - Causes serious eye irritation
H317 - May cause an allergic skin reaction
H411 - Toxic to aquatic life with long lasting effects

Key Legend Information:

N/A - Not Applicable
ND - Not Determined
OSHA - Occupational Safety and Health Administration

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.

Revision History

Rev02 Revision Date 09/15/2017 Aligned Section Headings and Sub headings to match regulatory requirement. Added Original Release Date.