

Safety Data Sheet Syntho-Coat™ 500

I. Product and Company Information

Product Name: Syntho-Coat™ 500
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: Reinforcement Coating for Corrosion Protection
Chemical Name or Synonym: N/A

II. Hazards Identification

Classification:

Acute toxicity/oral – Category 4
 Skin corrosion/irritation – Category 2
 Eye damage/eye irritation – Category 2B
 Flammable liquid – Category 1



GHS07



GHS09



GHS02

Hazard Statements:

H 302 Harmful if swallowed
 H320 Causes eye irritation
 H224 Extremely flammable liquid and vapour
 H315 Causes skin irritation.

Signal Word: Danger

Precautionary Statement:

P280 Wear eye protection/face protection/ protective gloves
 P264 Wash hands thoroughly after handling.
 P301+P312 If swallowed: Call a doctor if you feel unwell.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
 P337+P313 If eye irritation persists: get medical attention.

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

Health Hazard: 2
 Flammability: 3
 Reactivity: 0

III. Composition/Information on Ingredients

Component	CAS#	%Composition
Acetone	67-64-1	7-13
Light aromatic solvent naphtha	64742-95-6	5-10
Xylene	1330-20-7	1-5
Ethylbenzene	100-41-4	0.5-1.5
Mica	12001-26-2	1-5

Safety Data Sheet
Syntho-Coat™ 500

1,2,4-Trimethylbenzene	95-63-6	5-10
1,3,5-Trimethylbenzene	108-67-8	0.5-1.5
Isopropylbenzene	98-82-8	0.1-1
Toluene	108-88-3	0.1-1

IV. First Aid Measures

Inhalation: If breathed in, move person into fresh air. If not breathing, *give* artificial respiration. If breathing is difficult, give oxygen. Get medical attention

Ingestion: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Seek medical attention or call poison control

Eye Exposure: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, including under lids. If easy to do, remove contact lenses, if worn. Get medical attention immediately

Skin Exposure: In case of contact, immediately flush skin with plenty of soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.

Most important symptoms/effects, acute and delayed: Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Symptoms may include redness, edema, drying, defatting and cracking of the skin. Vapours may cause drowsiness and dizziness.

Over-exposure signs/symptoms: Because of its irritating properties, product may aggravate preexisting skin, eye, respiratory, kidney, heart, and auditory conditions.

Note to Physician: Symptoms may not appear immediately.

V. Fire Fighting Measures

Extinguishing Media: Powder, foam, carbon dioxide. Do not use a direct stream of water.

Special Fire Fighting Procedures: Vapors can flow to distant ignition sources and flash back. Use water spray to keep fire-exposed containers cool. Keep upwind of fire.

Special Protective Equipment for Fire-fighters: Fire-fighters should wear full fire fighting turn- out gear (full Bunker gear) and respiratory protection (SCBA).

Specific hazard arising from the chemical: No specific fire or explosion hazard

Hazardous Decomposition Materials (Under Fire Conditions): May include but not limited to oxides of carbon, organic compounds.

VI. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Keep out of drains, sewers, ditches, and Waterways. Minimize use of water to prevent environmental contamination.

Cleanup and Disposal of Spill: Scoop up material and place in a disposal container. Provide adequate ventilation. Contain and absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Safety Data Sheet Syntho-Coat™ 500

VII. Handling and Storage

Precautions for Safe Handling: Keep away from sources of ignition. No smoking. Avoid contact with skin and eyes. Do not swallow. Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Launder contaminated clothing before reuse. Handle and open container with care. When using do not eat or drink. Wash hands before eating, drinking, or smoking.

Conditions for Safe Storage including any incompatibilities: Keep out of the reach of children. Keep container tightly closed and in a well-ventilated place. Do not store at temperatures above 38 °C / 100°F.

VIII. Exposure Controls / Personal Protection

Exposure Guidelines:

Component	Exposure limits		
	ACGIH	NIOSH	OSHA-PELs
Acetone	500 ppm	ND	750 ppm
Light aromatic solvent naphtha	5 mg/m ³ (mist)	ND	5 mg/m ³ (mist)
Xylene	100 ppm	ND	100 ppm
Ethylbenzene	20 ppm.	ND	100 ppm
Mica	10 mg/m ³ (total) / 3 mg/m ³ (resp)	ND	20 mppcf
1,2,4-Trimethylbenzene	N/A	ND	N/A
1,3,5-Trimethylbenzene	25 ppm	ND	N/A
Isopropylbenzene	50 ppm	ND	50 ppm
Toluene	20 ppm	ND	20 ppm

Appropriate Engineering Controls: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Personal Protective Equipment:

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Eye / Face Protection: Wear eye/face protection (Safety glasses).

Skin Protection: Wear suitable protective clothing and gloves.

IX. Physical and Chemical Properties

Physical Appearance:	Viscous liquid
Odor:	Aromatic
Odor Threshold:	Not available
pH:	Not available
Flash Point:	- 20 C °C (- 4 °F)
Method Used:	Closed cup
Flammability (solid, gas):	Flammable by WHMIS/OSHA criteria
Flammability Limits (vol/vol%):	Lower: 1% Upper: 13%
Melting Point Range:	Not available
Boiling point:	56 – 168 °C (133 – 335 °F)
Freezing Point:	Not applicable
Evaporation Rate:	<1 (Butyl Acetate = 1)
Specific Gravity:	1.4 (Water = 1)
Viscosity:	100 – 450 cPs at 100 rpm
Solubility:	Not available

Safety Data Sheet Syntho-Coat™ 500

Water Solubility:	Insoluble
Vapor Pressure:	Not available
Vapor Density:	>1 (Air = 1)
Relative Density:	1.95
Partition coefficient (n-octanol/water):	Not available
Auto-ignition Temperature:	869 °F (465 °C)
Decomposition Temperature:	> 392 °F (>200 °C)
VOC content, wt:	3.3 lbs/gal (396 gm/L)

X. Stability and Reactivity

Reactivity: No specific data

Hazardous Polymerization: Will not occur

Chemical Stability: Stable under normal storage conditions. Keep in a cool place.

Possibility of Hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to Avoid: Heat. Incompatible materials.

Incompatible Materials/Chemicals: Acids. Bases. Strong oxidizers.

Hazardous Decomposition Products: May include, and are not limited to: oxides of carbon, organic compounds.

XI. Toxicological Information

Numerical measures of toxicity:

Component	LD50 Oral	LC50 Inhalation
Acetone	5800 mg/kg (Rat)	N/A
Light aromatic solvent naphtha	8400 mg/kg (Rat)	>5.2mg/L (Rat) 4 h 3400 ppm (rat), 4h
Xylene	4300 mg/kg (Rat)	5000 ppm (rat), 4h 47635 mg/L(rat), 4h
Ethylbenzene	3500 mg/kg (Rat)	17.2 mg/L(rat), 4h
Mica	N/A	N/A
1,2,4-Trimethylbenzene	3400 mg/kg (Rat)	18000 mg/m ³ (rat), 4h
1,3,5-Trimethylbenzene	5000 mg/kg (Rat)	24000 mg/m ³ (rat), 4h
Isopropylbenzene	1400 mg/kg (Rat)	39000 mg/m ³ (rat), 4h
Toluene	636 mg/kg (Rat)	12.5mg/L(rat) 4h 26700 ppm (rat), 1h

Potential Acute Health Effects and

Acute Eye Irritation: May cause eye irritation.

Acute Skin Irritation: May cause skin irritation.

Acute Ingestion Toxicity: Harmful if swallowed.

Acute Inhalation Toxicity: May cause respiratory tract irritation. This product may be aspirated into the lungs and cause chemical pneumonitis.

Symptoms related to the physical, chemical and toxicological characteristics:

Safety Data Sheet
Syntho-Coat™ 500

Eye contact: Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva

Inhalation: Vapours may cause drowsiness and dizziness.

Skin contact: Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Ingestion: May cause stomach distress, nausea or vomiting. Harmful: may cause lung damage if swallowed.

Chronic Health Effects: Not hazardous by WHMIS/OSHA criteria.

Respiratory Sensitization: Not hazardous by WHMIS/OSHA criteria.

Skin Sensitization: Not hazardous by WHMIS/OSHA criteria.

Mutagenicity: Not hazardous by WHMIS/OSHA criteria.

Carcinogenicity: Hazardous by WHMIS/OSHA criteria.

Reproductive Effects: Not hazardous by WHMIS/OSHA criteria.

Teratogenicity: Hazardous by WHMIS/OSHA criteria.

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

XII. Ecological Information

Ecotoxicity: May cause long-term adverse effects in the aquatic environment.

Persistence and degradability: No specific data

Bioaccumulative potential: No available

Mobility in soil: No available

Other adverse effects: No known significant effects or critical hazard

XIII. Disposal Considerations

Waste treatment methods: Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste should not be disposed of untreated to the sewer

Uncleaned packaging: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

XIV. Transport Information

DOT

UN-Number: UN1263

Proper Shipping Name: Paint

Hazard Class: 3

Packing Group: II

IATA

UN-Number: UN1263

Proper Shipping Name: Paint

Hazard Class: 3

Packing Group: II

ERG Code: 3L

XV. Regulatory Information

Federal Regulations:

SARA Title III: Section 302/304. CERCLA: Not listed.

SARA Title III: section 313. Some of the chemicals are listed: Acetone, Xylene, Ethylbenzene, 1,2,4 Trimethylbenzene, Isopropylbenzene and toluene.

TSCA Ingredients: listed with the exception of Mica.

California Prop. 65: This product contains chemicals known to the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

International Regulations:

Canadian Inventory Status: This product contains only chemicals that are currently listed on the Canadian Domestic Substance List.

XVI. Other Information

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

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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