



Material Safety Data Sheet

Product: Kevlar Reinforced Wet Curing Epoxy

MSDS Date: 07-01-08
Product Name: Kevlar Reinforced Wet Curing Epoxy
Product Code: SUB20 or SUBQT Part A
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:
Epoxy Coating Component

Product Use:
Corrosion control, Sealant, Coating and Patching

Chemical Name or Synonym:
NA

Molecular Formula:
NA

II. Chemical Composition

Component	CAS#	%Composition
Epoxy Resin liquid polymer	25068-38-6	50-75
p-tertbutylphenyl glycidyl ether	3101-60-8	5-10
Micronized Silica	7631-86-9	5-10
Poly(terephthaloylchloride/p-phenylenediamine	26125-61-1	2-5



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III. Hazards Identification

A. Emergency Overview:

Physical Appearance and Odor:
Gray fluid with sweet odor

B. Potential Health Effects:

Acute Eye:
May cause eye irritation.

Acute Skin:
Exposure may cause skin irritation and sensitization.

Acute Inhalation:
May cause irritation of the respiratory tract. Prolonged or repeated exposure may cause an asthmatic reaction.

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.



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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

V. Fire Fighting Measures

Fire Hazard Data:

Flash Point: >250°F

Method Used: TCC

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, and full protective equipment.

Unusual Fire and Explosion Hazards:

None

Hazardous Decomposition Materials (Under Fire Conditions):

Decomposition and combustion may release toxic substances.

VI. Accidental Release Measures

Cleanup and Disposal of Spill:

Avoid contact with skin and eyes. Scrape or wipe up spilled material. Collect in suitable and properly labeled containers. Dispose of materials according to the applicable Federal, State, or local regulations.



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VII. Handling and Storage

Handling:

Avoid contact with eyes, skin or clothing. Use with good ventilation. Wash after handling and before eating, drinking or smoking.

Storage:

Store in cool dry area in closed containers.

VIII. Exposure Controls / Personal Protection

Exposure Guidelines:

Component	Exposure limits		
	ACGIH	NIOSH	OSHA-PELs
Epoxy Resin liquid polymer	ND	ND	ND
p-tertbutylphenyl glycidyl ether	ND	ND	ND
Micronized Silica	ND	ND	0.1 mg/m ³
Poly(terephthaloylchloride/p-phenylenediamine	ND	ND	ND

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: Gray Fluid

Odor: Sweet odor



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Boiling Point:	NA
pH:	ND
Specific Gravity:	1.34
Water Solubility:	Negligible
Melting Point Range:	ND
Vapor Pressure:	ND
Percent Volatiles by Volume:	ND

X. Stability and Reactivity

Chemical Stability:

Stable under standard use and storage conditions.

Conditions to Avoid:

Mixing large volumes with epoxy curing agents such as SUB01 Part B. Volumes of one gallon are safe however expect a significant exotherm within 15 - 20 minutes at 70°F.

Materials / Chemicals to be Avoided:

None

Hazardous Decomposition Products:

Fumes produced when heated may include oxides of carbon.

Hazardous Polymerization:

Will not occur

XI. Toxicological Information

Acute Effects:

ND

Acute Eye Irritation:

May cause eye irritation.

Acute Skin Irritation:

Exposure may cause skin irritation and sensitization.

Acute Dermal Toxicity:

May cause sensitization and dermatitis.



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Acute Respiratory Irritation:

May cause irritation of the respiratory tract. Prolonged or repeated exposure may cause an asthmatic reaction.

Acute Ingestion Toxicity:

May cause gastrointestinal irritation if swallowed.

Acute Inhalation Toxicity:

Not Determined

Acute Oral Toxicity:

Not Determined

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:

Scrape or wipe up spilled material. Place in container for recovery or disposal. 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



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	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
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:	1
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



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