



## Material Safety Data Sheet

**Product: Viper-Skin**

**MSDS Date:** 03/16/2010  
**Product Name:** Viper-Skin  
**Manufacturer:** NRI, Neptune Research, Inc.

### I. Product and Company Description

Neptune Research, Inc.  
1346 S. Killian Drive  
Lake Park, FL 33403

**Emergency Phone Number:**  
800-535-5053

**For Product Information:**  
(561) 683-6992

**Product Description:**  
Carbon Fiber pre-impregnated with a resin

**Product Use:**  
Pipe repair and reinforcement

**Chemical Name or Synonym:**  
NA

**Molecular Formula:**  
NA

### II. Chemical Composition

Component	CAS#	%Composition
Carbon Fiber	NA	>20%
Adhesive Resin consisting of: Synthetic Urethane Polymer Diphenylmethane Diisocyanate (MDI)	59676-67-1 26447-40-5	Proprietary



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### **III. Hazards Identification**

#### **A. Emergency Overview:**

**Physical Appearance and Odor:**

Resin impregnated tape with no odor

#### **B. Potential Health Effects:**

**Acute Eye:**

Contact with eyes causes irritation.

**Acute Skin:**

Contact with skin causes irritation and redness.

**Acute Inhalation:**

No exposure effects anticipated under normal work conditions.

**Acute ingestion:**

No exposure effects anticipated under normal work conditions. May cause gastrointestinal irritation if swallowed.

**Chronic effects:**

None

**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 or shoes, wipe excess from skin and flush with plenty of water for at least 15 minutes. Use soap if available or follow by washing with soap and water. Do not reuse clothing until thoroughly cleaned. Get medical attention.

**Inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in side position for transportation.



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**Ingestion:**

Do not induce vomiting. Give one glass of water unless victim is drowsy, convulsing, or unconscious. Seek medical attention.

**Notes to Physician:**

None

### V. Fire Fighting Measures

**Fire Hazard Data:**

Flash Point: NA

Flammability Limits (vol/vol%): Lower: ND Upper: ND

**Extinguishing Media:**

CO<sub>2</sub>, extinguishing powder or water spray. Use fire fighting measures that suit the environment.

**Special Fire Fighting Procedures:**

Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves, and rubber boots) including a positive pressure NIOSH approved self-contained breathing apparatus.

**Unusual Fire and Explosion Hazards:**

None

**Hazardous Decomposition Materials (Under Fire Conditions):**

Carbon oxides and other potentially hazardous compounds may be released upon combustion.

### VI. Accidental Release Measures

**Cleanup and Disposal of Spill:**

Pick up material and dispose of according to the applicable Federal, State, or local regulations. Do not allow to enter sewers/surface or ground water.

### VII. Handling and Storage

**Handling:**

Avoid contact with skin or eyes. Wash thoroughly after use and before work breaks.

**Storage:**

Keep in cool, dry, ventilated storage and in closed containers.



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### VIII. Exposure Controls / Personal Protection

**Exposure Guidelines:**

Not Applicable

**Engineering Controls:**

Not Applicable.

**Respiratory Protection:**

None normally required. In case of inadequate ventilation use NIOSH-approved respirator.

**Eye / Face Protection:**

None required under anticipated use conditions.

**Skin Protection:**

Wear chemical resistant gloves when handling the product.

### IX. Physical and Chemical Properties

**Physical Appearance:** Resin impregnated tape

**Odor:** None

**Boiling Point:** ND

**pH:** ND

**Specific Gravity:** >2

**Water Solubility:** Not miscible

**Melting Point Range:** NA

**Vapor Pressure:** ND

**Percent Volatiles by Volume:** Negligible

### X. Stability and Reactivity

**Chemical Stability:**

Stable under standard use and storage conditions.

**Conditions to Avoid:**

Elevated temperatures

**Materials / Chemicals to be Avoided:**



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Organic solvents such as kerosene

**Hazardous Decomposition Products:**

Oxides of carbon and other unknown hydrocarbons.

**Hazardous Polymerization:**

Will not occur.

### XI. Toxicological Information

**Acute Effects:**

Not determined

**Acute Eye Irritation:**

Contact with eyes causes irritation.

**Acute Skin Irritation:**

Contact with skin causes irritation and redness.

**Acute Dermal Toxicity:**

Not Determined

**Acute Respiratory Irritation:**

No exposure effects anticipated under normal work conditions.

**Acute Ingestion Toxicity:**

No hazard in normal industrial use. May cause gastrointestinal irritation if swallowed.

**Acute Inhalation Toxicity:**

No exposure effects anticipated under normal work conditions.

**Chronic Toxicity:**

Not Determined

### XII. Ecological Information

**Ecotoxicological Information:**

Not Determined

**Chemical Fate Information:**

Not Determined



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**XIII. Disposal Considerations**

**Waste Disposal Method:**

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:**

<b>US Department of Transportation</b>	<b>Proper Shipping Name</b>	Not Regulated
	<b>Hazard Class</b>	Not Regulated
	<b>ID Number</b>	Not Regulated
	<b>Packaging Group</b>	Not Regulated
	<b>Label Statement</b>	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:	NO
Chronic Health Hazard:	NO

**Other Federal Regulations:**

**State Regulations:**  
None

**Canada Regulations:**

Classification: Not Classified

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

**XVI. Other Information**



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

Health Hazard:	0
Flammability:	0
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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