

Safety Data Sheet
Rock-Jacket Lite

Section 1. Product and Company Identification

Product Name: Rock-Jacket Lite
Supplier: NRI 3875 Fiscal Court, Ste #100 Riviera Beach, FL 33404 (561) 683-6992
Emergency Phone Number: 800-535-5053
Product Description: Fiberglass cloth impregnated with water activated resin.
Product Use: Intended to repair pipes or for corrosion control.
Chemical Name or Synonym: N/A

Section 2. Hazards Identification

Classification of the substance or mixture

Acute toxicity/dermal - Category 3
Acute toxicity/inhalation - Category 3
Skin corrosion/irritation - Category 2
Serious eye damage/eye irritation - Category 2B
Skin sensitization - Category 1



GHS07



GHS08

Hazard Statements:

H311 Toxic in contact with skin
H334 May cause allergy or asthma or breathing difficulties if inhaled
H332 Harmful if inhaled.
H315 Causes skin irritation.
H320 Causes eye irritation.

Signal Word: WARNING!

Precautionary Statement:

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P262 Do not get in eyes, on skin, or on clothing.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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

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

Health Hazard:

Flammability:

Reactivity:

Section 3. Composition/ Information on Ingredients

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Component	CAS #	% Composition
Fiberglass Cloth (E-type, continuous filament)	65997-17-3	65-70
Surface sizing	NA	<0.5
Textured polyester filament yarn	NA	<0.5
Hydrogenated MDI-Polypropylene glycol copolymer	9042-82-4	15-20
Dicyclohexylmethane 4,4' Diisocyanate	5124-30-1	<0.1
Polyol triol	9082-00-2	13-18
P-toluenesulfonyl isocyanate	4083-64-1	0.3
Siloxane	63148-62-9	0.3
Titanium dioxide	3463-67-7	1.2

Section 4. First Aid Measures

First Aid Measures for Accidental:

Eye Exposure: Flush with copious amount of water. Preferably lukewarm, for at least 15 minutes, holding eyelids open at all times. Refer individual to a physician or ophthalmologist for immediate follow up.

Skin Exposure: Remove contaminated clothing. Wash affected skin thoroughly with soap and water. Wash contaminated clothing thoroughly before reuse. Get under safety shower after removing clothing. Seek medical attention if irritation develops after area is washed.

Inhalation: Move to an area free from risk of further exposure. Administer oxygen as needed. Obtain medical attention. Asthmatic -type symptoms may develop and may be immediate or delayed up to several hours. Consult physician should this development occur.

Ingestion: Do not induce vomiting. Give one to two cups of milk or water to drink. Do not give anything by mouth to an unconscious person, consult a physician.

Most important symptoms/effects, acute and delayed:

Acute Inhalation: Inhalation of vapors or spray mist may also cause irritation to the respiratory tract (dry throat, cough, shortness of breath and chest tightness). In addition sinusitis, bronchitis or respiratory sensitization (asthma-like symptoms) may occur.

Acute Eye: Eye irritant, possible eye burns and vision failure.

Acute Skin contact: Skin irritant and possible skin sensitizer. Direct skin is the route most likely to cause sensitization. Once sensitized an individual may react to airborne levels below the TLV with the following symptoms, itching and tingling of the earlobe and hives, swelling

of the arms and legs or other symptoms common to allergic dermatitis. Any individual having a sensitization reaction to this material should be removed from exposure to any isocyanate.

Acute ingestion: Irritation and corrosive action can occur in the mouth, stomach tissue and digestive tract. Symptoms can include: sore throat, abdominal pain, nausea, vomiting and diarrhea.

Over-exposure signs/symptoms: No data available

Section 5. Fire Fighting Measures

Extinguishing Media: Water spray (fog), foam, dry chemical and carbon dioxide.

Special Fire Fighting Procedures: During a fire, MDI vapors and other irritating, highly toxic gases may be generated by thermal decomposition or combustion. Therefore, use cold water to cool fire-exposed containers.

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Special Protective Equipment for Fire-fighters: Full emergency equipment with self-contained breathing apparatus and full protective clothing should be worn by firefighters. Wear positive pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes helmet, coat, pants, boots, and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant clothing with SCBA. This will not provide sufficient fire protection, consider fighting fire from a remote location.

Unusual Fire and Explosion Hazards: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Water spray may be used to cool closed containers and prevent pressure build-up. Empty containers may contain liquid or vapor which is flammable or explosive. Do not weld, burn or cut empty containers.

Hazardous Decomposition Materials (Under Fire Conditions): Combustion produces carbon monoxide, oxides of nitrogen, and traces of HCN, and solvent vapors.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: No action shall be taken involving any personal risk or without suitable training. Keep people at a distance and stay upwind. Evacuate surrounding areas. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Cleanup and Disposal of Spill: Decontaminate floor with decontamination solution letting stand for at least 15 minutes. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

Section 7. Handling and Storage

Precautions for safe handling: Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination is suspected. Avoid contact with skin and eyes. Do not breathe aerosols or vapors. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Ensure good ventilation/exhaustion at the workplace.

Conditions for safe storage including any incompatibilities: 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. Storage at temperature between 64 °F and 86 °F. Keep away from humidity and water. Keep container tightly closed and sealed until ready for use.

Section 8. Exposure Controls / Personal Protection

Component	Exposure limits		
	ACGIH	NIOSH	OSHA-PELs
Dicyclohexylmethane Diisocyanate (5124-30-1) 4,4'	0.005 ppm (TWA)	ND	0.010 ppm Ceiling
Titanium Dioxide (3463-67-7)	10 mg/m ³	ND	15 mg/m ³
Fibrous glass	5 mg/m ³ TWA (inhalable)	ND	5 mg/m ³ TWA (respirable dust)

Appropriate Engineering Controls: Local exhaust should be used to maintain levels below the TLV whenever MDI is processed, heated or spray applied. Standard reference sources regarding industrial ventilation (i.e., ACGIH Industrial Ventilation) should be consulted for

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guidance about adequate ventilation.

Personal Protective Equipment:

Respiratory Protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

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.

Skin Protection: The glove material has to be impermeable and resistant to the product. Cover as much of the exposed area as possible, with protective clothing.

Section 9. Physical and Chemical Properties

Physical Appearance:	Fiberglass cloth coated with viscous white resin.	
Odor:	Aromatic	
Odor Threshold:	ND	
pH:	ND	
Melting Point Range:	NA	
Boiling point:	>350°F	
Flash Point:	>350°F	
Evaporation rate (ether=1):	slower	
Flammability Limits (vol/vol%):	Lower: N/A	Upper: N/A
Vapor Pressure:	ND	
Vapor Density (air=1):	Greater	
Relative Density:	ND	
Specific Gravity:	2.6-2.7 (bare glass)	1.1 (resin)
Water Solubility:	Negligible. Reacts slowly with water to liberate CO ₂ gases.	
Partition coefficient (n-octanol/water):	ND.	
Auto-ignition Temperature:	ND	
Decomposition Temperature:	ND	
Viscosity:	ND	
Percent volatile (by volume):	0	

Section 10. Stability and Reactivity

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

Chemical Stability: Stable under standard use and storage conditions.

Possibility of Hazardous reactions: No dangerous reactions known. Hazardous polymerization will not occur under normal conditions.

Conditions to Avoid: Contact with moisture and other materials that react with isocyanate. Temperature above maximum storage temperatures.

Incompatible Materials / Chemicals: Water, alcohol's, amines and strong bases.

Hazardous Decomposition Products: Hazardous combustion products may include nitrogen oxides, isocyanates, traces of hydrogen cyanide, carbon monoxide, and carbon dioxide.

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Section 11. Toxicological Information

For 26447-40-5 Diphenylmethane diisocyanate (MDI) containing Methylene bisphenyl isocyanate (CAS No: 10168-8):

Oral LD50 (rats): >1000 mg/kg

Dermal LD50 (rabbits): >2000 mg/kg

Primary irritant effect:

On the skin: Irritant to skin and mucous membranes.

On the eye: Irritating effect.

Sensitization: Sensitization possible through inhalation. Sensitization possible through skin contact.

Symptoms:

Inhalation: Dry throat, cough, shortness of breath and chest tightness. In addition sinusitis, bronchitis or respiratory sensitization (asthma-like symptoms) may occur.

Eye Contact: Possible eye burns and vision failure.

Skin Contact: Itching and tingling of the earlobe and hives, swelling of the arms and legs or other symptoms common to allergic dermatitis.

Chronic Health Effects: 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

Ecotoxicity: No data available

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: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging: Dispose of in accordance to all local, state, and/or national legislation.

Section 14. Transport Information

Not regulated as a DOT hazardous material.

Not regulated as a IATA hazardous material.

UN Number (DOT): Not Applicable

UN Proper Shipping Name: Liquid resin. Non-regulated

Transport Hazard Class: Not Applicable

Packing Group: Not Applicable

Environmental Hazard: No

Freight class: 55

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Section 15. Regulatory Information

No data available

Section 16. 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

PEL – Permissible Exposure Limit

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.

(Rev00) Revision date: 08.03.2018