

SAFETY DATA SHEET

RCF™ Polyurethane Injection Expanding Foam | Revision Date 7/25/2019

1633 Thornwood Dr.
Heath, OH 43056 USA
P: +1 888 684 3889
E: info@rhinocarbonfiber.com

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01: PRODUCT & COMPANY IDENTIFICATION

RHINO PRODUCTS USA, INC.
1633 THORNWOOD DRIVE
HEATH, OH 43056

Product Name: RCF™ Polyurethane Injection Expanding Foam
Common Name: Polyamine

Product Code: RCF-EXFO
Chemical Family: Isocyanate
Product Use: Epoxy Bonding Agent
Emergency Phone: CHEMTREC 1 800 424 9300

02: HAZARDS IDENTIFICATION

NOTE: The classification, hazard statements and precautionary statements below represent those of Parts A and B mixed in a 1 to 1 ratio before hardening/curing.

Physical Hazards: None

Health and Environmental Hazards:

Skin Damage/Irritation	Category 2
Skin Sensitization	Category 1
Respiratory Sensitization	Category 1
Eye Damage/Irritation	Category 2
Acute Toxicity (Inhalation)	Category 4
Carcinogen	Category 2

Specific Target Organ Toxicity; Single Exposure (Resp) Category 3

Hazard Statements: Harmful if inhaled. Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing cancer. May cause respiratory irritation.

03: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:

Cas#	Chemical Name	%	OSHA PEL	ACGUH TLV
Component A				
No Hazardous Materials				
Component B				
101-68-8	4, 4"-methylenediphenyl diisocyanate	<25-50%	NE	NE
9016-87-9	Diphenylmethanediisocyanate, isomers and homologues	<25-50%	NE	NE

None of the remaining components are considered a hazardous material or carcinogen (1910.1200 Hazard Communication (d) 4.)

NE= Not Established

NA=Not Applicable

04: FIRST AID MEASURES

General Advice: Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped trained personnel should begin cardiopulmonary resuscitation immediately.

Inhalation: If respiratory irritation occurs, go to fresh air, flood work area with fresh air. If irritation continues seek medical attention.

Skin Contact: Remove contaminated clothing and shoes. Wash affected area(s) thoroughly with soap and water. If irritation persists, seek medical attention. SOLVENTS SHOULD NOT BE USED because they carry the irritant into the skin.

Eye Contact: Flush the eyes with plenty of water for at least 15 minutes. If necessary, gently hold eyelids open during the flush. Immediately seek medical attention.

Ingestion: Obtain immediate medical attention or call poison control center. Do not induce vomiting. Should vomiting occur, be sure to keep victim's head below hips to avoid aspiration of vomit into the lungs.

05: FIRE FIGHTING MEASURES

Extinguishing Media: Water, mist, fog, dry chemical, carbon dioxide, foam

Special Hazards Arising from the Substance/Mixture: Product may generate toxic or corrosive gasses if burned, e.i. Carbon Dioxide (CO₂). Use appropriate respiratory protection.

Advice for Fire Fighters: Wear full protective gear and self-contained breathing apparatus (SCBA) for significant fires.

06: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with eyes and skin.

Environmental Precautions: Do not discharge into soil or aquatic environment

Methods for Containment/Clean-Up: Absorb spill with cloth, paper towel, sand, or sawdust, etc. If only part A or Part B is spilled, mix with an equal amount of the other part and allow to harden and then clean up the solid residue. Dispose properly in trash.

RCF
REINFORCEMENT PRODUCTS

1-888-684-3889 | www.RhinoCarbonFiber.com

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07: HANDLING AND STORAGE

Handling Precautions: For professional use only. Avoid eye/skin contact. Wash after using and before eating or smoking. Avoid breathing vapors. Use as directed. Avoid uncontrolled mixing with other mixtures (strong acids, bases and oxidizers). Do not use solvent to thin. Respiratory protection is required when ventilation is inadequate. NIOSH/OSHA approved respirators should be provided and worn.

Storage Requirements: Store in cool/dry location. Keep away from extreme heat. Do not allow material to freeze, as product may be damaged. Store away from sparks and open flames.

08: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: HMIS PP, H | Splash Goggles, Gloves, Apron, Vapor Respirator Use local and general exhaust ventilation to maintain airborne concentrations below TLV. Suitable respiratory equipment should be used in cases of insufficient ventilation or where operational procedures demand it.

Personal Protective Equipment RESPIRATORY PROTECTION: None normally required. Use a NIOSH approved organic vapor chemical cartridge respirator when air movement is inadequate to control vapor build-up.
EYE/FACE PROTECTION: Wear splash proof chemical goggles/ full face shield if there is a potential for splashing.
SKIN / BODY PROTECTION: Wear Suitable gloves (neoprene, nitrile rubber or PVC) and protective clothing to mitigate exposure.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Use protective clothing which is chemical resistant to this material. Safety shoes and boots should also be chemical resistant.

09: PHYSICAL & CHEMICAL PROPERTIES

Appearance: yellow to brown viscous liquid
Odor: Mild
pH: Not applicable (non-aqueous)
Melting Point/Freezing Point: Not Determined
Boiling Point: Not Determined
Flash Point: >93°C/200°F
Evaporation Rate: Not Determined
Flammability: Not Determined
Upper/Lower Flammability Limits: Not Determined
Vapor Pressure: Not Determined
Vapor Density: Not Determined
Relative Density: Part A: 1.0; Part B: 1.2
Solubilities: Insoluble in water
Partition Coefficient (n-Octanol-Water): Not Determined
Autoignition Temperature: Not Determined
Decomposition Temperature: Not Determined
Viscosity: Not Determined
Explosive Properties: Not explosive
Oxidizing Properties: Not an oxidizer
Other: Not a VOC

10: STABILITY AND REACTIVITY

Stability: Stable
Conditions to Avoid: Moisture
Hazardous Decomposition Products: Nitrogen oxides, Carbon monoxide, Carbon dioxide, Isocyanate, Isocyanic acid
Hazardous Polymerization: other materials that react with isocyanates, or temperatures above 350F (177C)

11: TOXICOLOGICAL INFORMATION

Primary irritant effect:
on the skin: Irritant to skin and mucous membranes.
on the eye: Irritating effect.

Sensitization:
Inhalation: Sensitization possible through inhalation.
Skin Contact: Sensitization possible through skin contact.

Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations: Harmful and Irritant

12: ECOLOGICAL INFORMATION

Aquatic toxicity Very toxic to aquatic organisms, may cause long term adverse effects in the
Toxicity to other organisms: No data available

13: DISPOSAL CONSIDERATIONS

When disposed of properly, this material does not meet RCRA classification or listing for hazardous waste. Never dispose of liquid to a landfill. Spilled material should be stabilized or solidified prior to disposal. Once stabilized/solidified, the material may be disposed of through normal means. Certain localities and state laws have specific disposal requirements for non-hazardous industrial chemicals. Consult local municipal authorities, landfill personnel or disposal companies for details prior to any disposal activity. Always follow local, state and federal regulations.

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14: TRANSPORT INFORMATION

DOT: Not Regulated
IMDG: Not Regulated
IATA: Not Regulated

15: REGULATORY INFORMATION

All components of this product are on the TSCA inventory,
Superfund Amendments and Reauthorization Act:

Hazard Categories Immediate Hazard:	Yes
Delayed Hazard:	Yes
Fire Hazard:	No
Pressure Hazard:	No
Reactivity Hazard:	No

Prop 65: This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

16: OTHER INFORMATION

The information contained herein is, to the best of our knowledge and belief, accurate and current as of the date of this MSDS. However, since the conditions of handling and use are beyond our control, we make no guarantee of results and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. No representation or warranties, either expressed or implied, as to its correctness or completeness, or as of merchantability, fitness for a particular purpose, or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers or as to the results or reliance of this product. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.

END OF SDS DOCUMENT