

PRODUCT NAME: Rhino Extreme™ 11-50 GT Resin

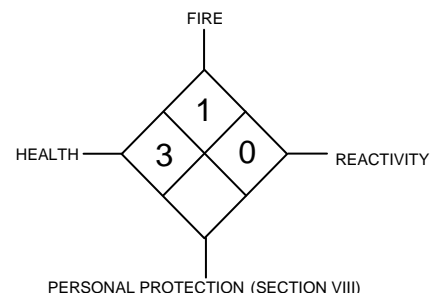
SECTION 1 - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: Rhino Linings Corporation

ADDRESS: 9151 Rehco Road, San Diego, CA, 92121

INFORMATION PHONE: 858-450-0441

EMERGENCY CONTACT: (CHEMTREC): 800-424-9300



HMIS HAZARD RATING	
LEAST---0	SLIGHT---- 1
MODERATE --- 2	HIGH ----- 3
EXTREME ---- 4	

SECTION 2 - COMPOSITION & INGREDIENTS

SECTION 3 - Hazards Identification

<u>Weight %</u>	<u>Ingredients</u>	<u>CAS #</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
60 - 80	Glyceryl poly(oxypropylene) diamine	9046-10-0	N/E	
5 - 15	Glyceryl poly(oxypropylene) triamine	64852-22-8	N/E	
10 -20	Diethyltoluenediamine	68479-98-1	N/E	

*No toxic chemical(s) subject to the reporting requirements of Section 313 of Title III and of 40 CFR 372.

SECTION 4 - FIRST AID MEASURES

Emergency Overview:

Danger!
CAUSES EYE AND SKIN BURNS
HARMFUL IF SWALLOWED
CAUSES RESPIRATORY TRACT IRRITATION

Toxic if swallowed. Corrosive to eyes and skin. Causes chemical burns. Irritating to the respiratory system. Do Not breath vapor or mist. Do Not ingest. Do Not get in eyes or on skin or clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

Skin Contact: Frequent and prolonged contact will cause irritation and chemical burns. Skin sensitization and irritation may develop after repeated and/or prolonged contact with human skin.

Skin Absorption: Systematically toxic concentrations of this product may probably be absorbed through human skin.

Skin First Aid: Get Medical attention immediately. Wash material off of the skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothing and decontaminate footwear before reuse. Chemical burns must be treated promptly by a physician.

Eye Contact: Can induce irritation or chemical burns on contact with eyes.

Eye First Aid: Get medical attention immediately. Immediately flush eyes with plenty of water for a minimum of 15 minutes. After initial flushing, remove any contact lenses and continue flushing for at least an additional 15 minutes. Have eyes examined and treated by medical personnel.

Ingestion: Swallowing small amounts of this material can create chemical burns and have harmful effects. Swallowing large amounts will be harmful. This is a toxic chemical.

Ingestion First Aid: Give 1 or 2 glasses of water to wash out mouth and do not induce vomiting. Call a physician immediately. (Never give anything by mouth to an unconscious person).

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SECTION 4 – FIRST AID MEASURES CONTINUED

Inhalation: Vapors can irritate eyes, nose and respiratory passages. Overexposure may induce headache or dizziness. Severe overexposure to this material could cause stomach or intestinal upset, chronic cough, dizziness, or weakness.

Inhalation First Aid: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is labored, give oxygen. Consult medical personnel immediately.

Carcinogenicity:

NTP – No

IARC Monographs – No

OSHA Regulated – This material is considered hazardous by OSHA Hazardous Communication Standard (29 CFR 1910.1200)

Health Hazards: Acute: Exposure may cause skin and eye irritation, respiratory tract irritation. Chemical burns may result due to overexposure. Affects of exposure may be delayed.

Chronic: Repeated and prolonged exposure at low levels may result in adverse skin and eye effects, liver and kidney disorders. Following severe exposure the patient should be kept under medical review for at least 48 hours as delayed pulmonary oedema may develop.

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point: 365 °F (185 °C) Closed Cup PMCC

Flammable Limits in Air by Volume: (Based on Diglycol) Lower: N/E Upper: N/E

Extinguishing Media: Dry chemical, alcohol foam, carbon dioxide.

Special Fire Fighting Protective Equipment: Wear NIOSH approved self contained breathing apparatus in positive pressure mode with full face piece. Boots, gloves (neoprene), goggles & full protective clothing are also required.

Unusual Fire and Explosion Hazards: Closed containers may rupture due to very high temperatures or induced pressure.

SECTION 6 – SPILLAGE, ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case Material is Released Or Spilled: Keep all unnecessary personnel away from spill. Wear skin, eye, and respiratory protection during cleanup. Soak up material with absorbent and shovel into a chemical waste container. Cover container, but do not seal, and remove from work area. Residues from spill cleanup may continue to be regulated under provisions of RCRA and require storage and disposal as hazardous waste. For major spills, call CHEMTREC (Chemical Transportation Emergency Center) at 800-424-9300.

Disposal Method: Spill cleanup residues may still be subject to RCRA storage and disposal requirements. Dispose of in compliance with all relevant local, state, and federal laws and regulations regarding treatment.

SECTION 7 – HANDLING AND STORAGE

Precautions To Be Taken In Handling & Storing: Keep in cool, dry, ventilated storage area 60 to 100 °F (16 to 38 °C) , in closed container and out of direct sunlight. Keep liquid away from heat, sparks and flame, store in container above ground and surrounded by dikes to contain spills or leaks. Excessive heat or pressure may ignite or detonate even liquid product in the absence of sparks or open flames. Keep containers closed when not in use. Store in the original container or an approved alternate made from a compatible material. Label all containers. Containers, even those that have been emptied, may contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations on or near containers. Do not pressurize to empty them.

Storage Precautions: Keep away from heat and sparks. Handling and Storage should be in accordance with local, State/Provincial or Federal regulations.

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SECTION 8 – EXPOSURE CONTROLS AND PROTECTION INFORMATION

Ventilation: Use local exhaust ventilation to maintain airborne concentrations below TVL. Good general ventilation should be sufficient to control airborne levels.

Respiratory Protection: When spraying, use a NIOSH approved supplied air respirator as required to, prevent overexposure. In accordance with 29 CFR 1910.134, use either an atmosphere supplying respirator or and air purifying respirator for organic vapors.

SECTION 8 – EXPOSURE CONTROLS AND PROTECTION INFORMATION

Protective Clothing: Gloves determined to be impervious under the options of use such as nitrile gloves should be worn always when working with this product. Depending on conditions of use, additional protection may be reassured such as apron, arm covers, or full body suit. Wash contaminated clothing before wearing. Protective clothing should be selected and used in accordance with “Guidelines for the Selection of Chemical Protective Clothing” published by ACGIH.

Eye Protection: Chemical tight goggles

Other Protective Equipment: Unhindered access to safety shower and eye wash stations. As a general hygiene practice, wash hands and face after use. Showers and cleaning of clothes are recommended. Follow all label instructions. Educate and train employees in safe use of product.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Straw colored liquid, slight amine odor.

Solubility in Water: Partially in cold water

Boiling Point: Not Available

Melting Point: Not Available

Specific Gravity (H2O = 1): 1.04

PH: Approximately 10.5

Vapor Density (Air = 1): Heavier than air.

Evaporation Rate: Slower than ether.

Coating V.O.C.: 0 G/L (0 LB/GL)

V.O.C.s: None

Oxidizing Properties: Not Available

Specific Gravity: .95 to .99

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to Avoid: Heat, high temperatures, open flame, sparks and moisture. Contact with incompatible materials in a closed system will cause buildup of pressure.

Incompatibility: Isocyanates and strong acids and oxidizers.

Hazardous Decomposition Products: Organic vapors and other thermal decomposition products.

Hazardous Polymerization: Will not occur.

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SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicity Data:

	<u>Test</u>	<u>Results</u>	<u>Route</u>	<u>Species</u>
Polyoxypropylenediamine	LD50	2090 mg/kg	Dermal	Rabbits
	LD50	480 mg/kg	Oral	Rat

Potential Acute Health Effects

Ingestion:	Toxic if swallowed. May cause burns to the mouth, throat and stomach.
Inhalation:	Irritating to the respiratory tract.
Eyes:	Corrosive to the eyes. Causes burns.
Skin:	Corrosive to the skin and causes burns.

Potential Chronic Health Effects

At this time it is Not Know if any significant effects or chronic hazards will occur.

SECTION 12 – ECOLOGICAL INFORMATION

No Data Available

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal Method: Spill cleanup residues may still be subject to RCRA storage and disposal requirements. Dispose of in compliance with all relevant local, state/provincial, and federal laws and regulations regarding treatment.

Waste disposal of substance: Incinerate in a licensed facility. Do not discharge substance/product into sewer system.

Container disposal:

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

SECTION 14 – TRANSPORTATION INFORMATION

Land transport

USDOT

Proper Shipping Name:	Amines, liquid, corrosive, N.O.S., (Polyoxypropylenediamine)
Hazard Class:	8
UN Number:	UN2735
Packaging Group:	III

Sea transport

IMDG

Proper Shipping Name:	Amines, liquid, corrosive, N.O.S., (Polyoxypropylenediamine)
Hazard Class:	8
UN Number:	UN2735
Packaging Group:	III

Air transport

IATA/ICAO

Proper Shipping Name:	Amines, liquid, corrosive, N.O.S., (Polyoxypropylenediamine)
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Packaging Group:	III

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SECTION 15 – NATIONAL REGULATIONS AND REFERENCES

USA CLASSIFICATION

US inventory (TSCA 8b): All materials are listed or exempted.

TSCA (Toxic Substance Control Act) Regulations: All ingredients are on the TSCA Chemical Inventory.

EPCRA Section 313 (40 CFR 372): This product does not contain any chemicals subject to reporting requirements. This product does not contain nor is it manufactured with ozone depleting substances.

California Prop 65: No ingredients listed.

Other Regulation/Legislation Which Apply To This Product: Massachusetts Right-to-Know, Pennsylvania Right-to-Know, New Jersey Right-to-Know.

CANADIAN CLASSIFICATION

This product has been classified in accordance with the hazard criteria of the CPR (Controlled Products Regulations) and this MSDS (Material Safety Data Sheet) contains all the information required by the CPR.

WHMIS: Class D-1B: Material causes immediate and serious toxic effects (toxic)

CEPA/Canadian Domestic Substance List (DSL): The substance(s) in this product is/are on the Canadian Domestic Substances List (CEPA DSL).

European Union Regulations: R Phrases: R22, R 34, R36, 37, 38
S Phrases: S36,37,39 S26, S27, S28, S45

DEFINITIONS:

R22	Harmful if swallowed.
R34	Causes burns.
R36,37,38	Irritating to eyes, respiratory system and skin.
S27,28	After contact with skin take off immediately all contaminated clothing and wash immediately with plenty of water for no less than 15 minutes.
S 36,37,39	Wear suitable protective clothing, gloves and eye/face protection.
S45	In case of accident or if you feel unwell seek medical advice immediately and show this MSDS where possible.

SECTION 16 –DISCLAIMER

Disclaimer: The data set forth in this sheet are based on information provided by the suppliers of the raw materials and chemicals used in the manufacture of the aforementioned product. Rhino Linings USA, Inc. makes no warranty with respect to the accuracy of the information provided by their suppliers, and disclaims all liability of reliance thereof.