Released: July 18, 2016

# PRODUCT NAME(S): Rhino Extreme<sup>™</sup> 21-50 Resin Black

# **SECTION 1 – IDENTIFICATION**

Manufacturer's Info: **Rhino Linings Corporation** 9747 Businesspark Avenue San Diego, CA 92131

Information phone: (858) 450 0441 Emergency contact: CHEMTREC (800) 424 9300 Product name: **Chemical Name: Chemical Family:** Product Category: Recommended use: Rhino Extreme<sup>™</sup> 21-50 Resin Black Polyamine Blend Polyurea Resin Component of Polyurea System Spray Elastomer

# **SECTION 2 – HAZARD(S) IDENTIFICATION**

**OSHA Hazard Communication Standard:** 

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**GHS-Label Elements:** 

Signal Word: DANGER



**GHS 05** 

Classification of the substance or mixture:

Hazard Class	<u>Category</u>	Hazard Statement Codes	Hazard Statements
Acute Toxicity, Oral	4	H302	Harmful if swallowed
Acute Toxicity, Dermal	4	H312	Harmful in contact with skin
Skin corrosion / irritation	1B	H314	Causes severe skin burns and eye damage
Serious eye damage / Eye irritation	1	H318	Causes serious eye damage
Carcinogenicity	2	H351	Suspected of causing cancer by inhalation
Specific target organ toxicity, repeated exposure	2	H373	May cause damage to kidney, liver and pancreas through prolonged or repeated exposure May cause damage to lungs/respiratory system through prolonged or repeated exposure by inhalation
Aquatic Hazard, Acute	2	H401	Toxic to aquatic life
Aquatic Hazard, Chronic	2	H411	Toxic to aquatic life with long lasting effects

#### Precautionary Statements:

i recautionary		
Prevention:	P201 P202 P281 P260 P270 P264 P273	Obtain special instruction before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not breathe mist, vapors, spray. Do not eat, drink, and smoke when using this product. Wash exposed area with plenty of water and soap thoroughly after handling. Avoid release to the environment.
Response:	P301 + P330 + P331 P303 + P361 + P353	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
	P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
	P310	Immediately call a POISON CENTER or doctor/physician.
	P308 + P313	IF exposed or concerned: Get medical advice/attention.
	P314	Get medical advice/attention if you feel unwell.
	P363	Wash contaminated clothing before reuse.
	P391	Collect spillage.
Storage:	P405	Store locked up.
Disposal:	P501	Dispose of contents/container to hazardous or special waste collection point in accordance with local/regional/national/international regulations.
Hazards not otherwise classified:		Not known.

**Media Rhino Linings** SAFETY DATA SHEET

# Part No.: 60081

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Released: July 18, 2016
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**Note:** Negative effects of the component classified as possible carcinogen to humans are minimized since it is dispersed in a liquid as opposed to an inhalable fine powder form. However, precautions should be taken to avoid breathing mists created by heating, mixing or spraying and dust from cutting or grinding of cured product containing this component.

	SECTION 3 -	COMPOSITION / INFORMAT	TION ON INGREDIENTS	
Component	s	CAS #	EC #	Concentration, %
Polyoxypropy	ylenediamine	9046-10-0	618-561-0	70 – 90
Diethyltoluen	nediamine	68479-98-1	270-877-4	15 – 25
Black Pigme	nt (contains Carbon Black)	1333-86-4	215-609-9	1 – 6
		SECTION 4 – FIRST-AID ME	EASURES	
Inhalation:	of First Aid measures: Immediate medical attention revealed at the test in a position common of the test in a position common of the test in the test in the test is the test in the test in the test is the test is the test in test is the test is t	ortable for breathing. irregular or if respiratory arre us to the person providing aid maintain an open airway. Loo	st occurs, provide artificial res to give mouth-to-mouth resus osen tight clothing such as a c	piration or oxygen by trained citation. If unconscious,
Skin:	Immediate medical attention required. Call a poison center or physician. Chemical burns must be treated promptly by a physician or dermatologist. Wash material off of the skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes immediately and wash them before reuse.			
Eye:	Immediate medical attention required. Call a poison center or physician. Chemical burns must be treated promptly I a physician or ophthalmologist. Rinse cautiously with water for several minutes, especially under the eyelids. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Do not rub eyes in order to prevent cornea injury.		ntact lenses, if present and	
Ingestion:	Immediate medical attention r keep at rest in a position comf If the exposed person is conse person feels sick as vomiting in not enter the lungs. Do not inco If unconscious, place in recov- tight clothing such as a collar, unconscious or having convul	ortable for breathing. Remove clous, rinse mouth with water may be dangerous. If vomiting luce vomiting unless directed ery position and get medical a tie, belt or waistband. Never	e dentures if any. and then give plenty of water g occurs, the head should be k to do so by medical personne attention immediately. Maintair	to drink. Stop if the exposed cept low so that vomit does l. n an open airway. Loosen

Most important symptoms/effects, acute and delayed: See Section 11 for more details.

**General advice for First Aid responders:** No action should be taken involving any personal risk or without suitable training. If potential for exposure exist refer to Section 8 for specific personal protective equipment. Show this SDS to physician.

**Note to physician**: Specific antidotes or neutralizers do not exist. Treatment should be supportive and based on the judgment of the physician in response to the reaction of the patient. Recommended medical monitoring for at least 24hours.

Certain ingredient of this product may cause methemoglobin formation resulting in a reduced ability of the blood to carry oxygen; a symptom may include cyanosis. Immediately give oxygen if victim turns blue (lips, ears, fingernails). Since reversion of methemoglobin to hemoglobin occurs spontaneously after termination of exposure, moderate degrees of cyanosis need to be treated only by supportive measures.

# SECTION 5 – FIRE-FIGHTING MEASURES

**Suitable extinguishing media:** Water fog or fine spray, alcohol-resistant foam, dry chemical or carbon dioxide fire extinguishers. **Unsuitable extinguishing media**: Direct water stream may cause frothing, splattering of burning material and spreading of fire.

**Specific hazards arising from the chemical:** Material may be ignited only if preheated to high temperatures (such in fire conditions). Fire in vicinity poses risk of pressure build-up and rupture. Containers at risk from fire should be cooled with water and, if possible, removed from the danger area. Hazardous combustion products: carbon and nitrogen oxides, amines, hydrogen cyanide, lower molecular weight organic molecules.

**Special Protective Equipment and Precautions for fire-fighters:** Wear NIOSH or OSHA approved self-contained breathing apparatus in positive pressure mode with full face piece and full protective gear. Isolate the scene by removing all persons from the incident area. No action should be taken involving any personal risk or without suitable training. Spilled product will cause very slippery walking surfaces.

Released: July 18, 2016

# SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Keep unnecessary and unprotected personnel from entering. Ensure adequate ventilation/exhaust extraction. Avoid breathing vapors or mist during clean up. Use protective equipment as described in Section 8. Do not touch or walk through spilled material; spilled material may cause a slipping hazard.

**Environmental precautions:** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. Inform the relevant authorities if the product has caused environmental pollution. Water polluting material. May be harmful to the environment if released in large quantities. See Section 12.

**Methods and materials for containment and cleaning up:** Remove mechanically; cover the remainder with non-combustible absorbent material (e.g. sand, earth, vermiculite or diatomaceous earth). Following absorption, transfer into properly labeled chemical waste containers. If necessary, repeat application of absorbent material until all liquid has been removed from the surface. Wash the spill site with soap and water. Cover container and remove from work to a well-ventilated area. Properly dispose of the waste material and any contaminated equipment (i.e., broom or brush) in accordance with existing federal, state and local regulations. For major spills: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Wash spillages into an effluent treatment plant or contain and collect with an absorbent material as described in the previous paragraph. For minor spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly with soap and water to remove residual contamination. Never return spills to original containers for re-use.

Residues from spill cleanup may continue to be regulated under provisions of RCRA and require storage and disposal as hazardous waste. For major spills, see Section 1 for the Emergency contact; for further disposal measures, see Section 13.

# SECTION 7 – HANDLING AND STORAGE

**Precautions for safe handling**: Protect chemical from atmospheric moisture. Avoid prolonged exposure to heat and air. Keep away from sources of ignition. Do not reseal if contamination is suspected.

Use adequate ventilation to keep airborne levels below the exposure limits. Do not breathe vapors and mists. Wear respiratory protection if material is heated, mixed, sprayed or used in a confined space. Avoid contact with skin and eyes. Wear appropriate eye and skin protection. Wash hands thoroughly after handling. Hands and/or face should be washed before eating, drinking and smoking and at the end of the shift. Remove contaminated clothing and protective equipment before entering eating areas.

**Conditions for safe storage, including any incompatibilities:** Store in original or approved alternative container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Protect it against physical damage and moisture. Normal temperature and pressures do not affect the material. Keep liquid away from heat, sparks and flame. Do not cut, drill, grind, weld or perform similar operations on or near containers. Use appropriate containment to avoid environmental contamination. Segregate from acids and acid forming substances.

**Storage stability:** Stable under normal conditions. **Storage temperature:**  $60 - 90^{\circ}F(16 - 32^{\circ}C)$ 

Employee education and training in the safe use and handling of this product are required under the OSHA Hazard Communication Standard 29 CFR 1910.1200. Employees and consumers should be warned of health risks associated with product use. See Section 8 for additional information on hygiene measures.

# **SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**

Control Parameters/Occupational exposure limit values: Not available for mixture. Not available for components.

**Appropriate engineering controls:** Good local and general ventilation should be sufficient to control worker exposure to airborne contaminants below recommended exposure limits. Local exhaust may be required in some areas.

#### Personal protective equipment:

#### Eye/face protection:

When directly handling liquid product, eye protection is required. Examples of eye protection include safety glasses and goggles or full face shield when there is a greater risk of splash. Contact lenses should not be worn when working with chemicals.

#### Skin/body protection:

Avoid contact with skin. Impervious gloves (nitrile butyl rubber, neoprene and PVC) should be worn always when working with this product. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact. Dispose contaminated gloves after use in accordance with good laboratory practices. Body should be covered with appropriate clothing (apron, arm covers or full body suit) depending on the task being performed and the risks involved. Protective clothing should be selected and used in accordance with "Guidelines for the Selection of Chemical Protective Clothing" published by ACGIH. Wash contaminated clothing before reuse. Store work clothing separately. Appropriate footwear should be also selected based on the task being performed and the risks involved.

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Released: July 18, 2016
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#### **Respiratory protection:**

Use local or general ventilation to control exposures below applicable exposure limits. When ventilation is inadequate, use either an atmosphere supplying respirator or NIOSH or OSHA approved air-purifying respirator for organic vapors. Respirator must be properly fitted and its selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Additional Protective Measures: Educate and train employees in safe handling of this product. Follow all label instructions. As a general hygiene practice, wash hands and face after use. Emergency eyewash fountains and safety shower should be in close proximity as a matter of good practice.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES		
Appearance:	Black Liquid	
Odor:	Slightly ammonia-like	
Odor threshold:	Not available	
pH:	10 - 11	
Melting point/ freezing point:	Not available	
Initial boiling point and boiling range:	>200°C	
Flash point:	>200°C	
Evaporation rate:	Negligible	
Flammability (solid, gas):	Not available	
Upper/ lower flammability or explosive limits:	Not available	
Vapor pressure:	Not available	
Vapor density:	Not available	
Relative density:	1.00-1.05 @ 25°C (77°F)	
Solubility (water):	Very slightly soluble	
Partition coefficient n-octanol/water:	Not available	
Auto-ignition temperature:	>250°C	
Decomposition temperature:	Not available	
Viscosity:	300 – 400cps @ 25°C (77°F)	

# SECTION 10 - STABILITY AND REACTIVITY

**Reactivity:** Product will not undergo hazardous polymerization. Corrosive effects to metal are not anticipated. Based on its structural properties the product is not classified as oxidizing. Does not form flammable gases in the presence of water.

**Chemical stability**: Stable under recommended storage conditions. Product is hygroscopic; contamination with moisture will negatively affect product performance. Avoid unintended contact with isocyanates; the reaction will generate heat.

Conditions to avoid: Unintentional contact with moisture, excessive heat, open flame and sparks. Avoid mist formation.

Incompatible materials: Strong oxidizing agents. Water, alcohols, amines, bases, acids, copper, aluminum and zinc alloys.

Hazardous decomposition products: Depend upon temperature, air supply and presence of other materials. Can include, but are not limited to carbon and nitrogen oxides, amines, hydrogen cyanide, lower molecular weight organic molecules.

# SECTION 11 – TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Skin and Eye Contact, Inhalation and Ingestion.

#### Symptoms of exposure: Acute toxicity:

**Oral:** Harmful if swallowed. May cause burns to mouth, throat and stomach. Adverse symptoms may include abdominal pain, nausea, vomiting, and diarrhea.

Dermal: Harmful in contact with skin. Adverse symptoms may include pain or irritation, redness, blistering.

Inhalation: Inhalation is unlikely due to the low vapor pressure. However, if handled at elevated temperatures, it may give off-gas, vapor or mist that is very irritating to the respiratory system. Adverse symptoms may include nausea, headache, difficulties with breathing.

 DETDA, CAS #: 68479-98-1: Inhalation, skin absorption or ingestion may cause methemoglobin formation resulting in a reduced ability of the blood to carry oxygen; a symptom may include cyanosis (purplish-blue coloring of the skin, fingernails, and lips).

#### Skin corrosion / irritation:

Corrosive! Damages skin if not removed immediately. A more severe response may be expected if skin is abraded (scratched or cut).

### Serious eye damage / eye irritation:

May cause serious eye damage. Adverse symptoms may include tearing, redness, swelling and burning.

# Specific target organ toxicity, single exposure:

Not expected.

Aspiration hazard: Not an aspiration hazard.

# Released: July 18, 2016

#### **Chronic toxicity:**

# **Respiratory and Skin Sensitizer:**

This product does not contain components that are reported to be a skin or respiratory sensitizer.

#### Germ cell mutagenicity:

Risk to humans is not expected from exposure to this product.

#### Carcinogenicity:

This product contains component reported to be possibly carcinogenic to humans by IARC.

• Carbon Black, CAS #: 1333-86-4: IARC: Group 2B (Possibly Carcinogenic to Humans)

Negative effects of Carbon Black on health are minimized, considering that it is dispersed in liquid. However, precautions should be taken to avoid breathing mists created by heating, mixing or spraying and dust from cutting or grinding of cured product containing this component.

#### **Reproductive toxicity:**

Risk to humans is not expected from exposure to this product.

# Specific target organ toxicity, repeated exposure:

Liver, kidney, pancreas, lungs/respiratory system.

#### Medical conditions aggravated by overexposure:

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Liver, kidney, pancreas, lungs/respiratory system and skin disorders if product is handled without adequate protection.

# Toxicity test results: Not available for mixture. Results for components:

Components	Test Results
Polyoxypropylenediamine, CAS #: 9046-10-0	Acute Toxicity Oral LD50 (Rat): 480 mg/kg Dermal LD50 (Rabbit): 2,090 mg/kg Skin corrosion/irritation (Rabbit): Corrosive. Causes severe burns. Serious eye damage/eye irritation (Rabbit): Corrosive. Causes serious eye damage.
Diethyltoluenediamine (DETDA), CAS #: 68479-98-1	Acute Toxicity Oral LD50 (Rat): 738 mg/kg (OECD Test Guideline 401) Dermal LD50 (Rat): >2,000 mg/kg (OECD Test Guideline 402) Skin corrosion/iritation (Rabbit): Non-irritating (OECD Test Guideline 404) Eye Irritation (Rabbit): Irritating (US-EPA) <u>Chronic toxicity</u> Skin Sensitization (guinea pig): Negative (intracutaneous test) Germ cell mutagenicity: Positive and negative results were seen in various in Vitro and in Vivo studies. Reproductive toxicity: Oral (Rat, females), Dose: 0, 50, 150, 500 mg/kg General Toxicity Maternal: No observed adverse effect level: 50 mg/kg body weight Teratogenicity: No observed adverse effect level: 500 mg/kg body weight Embryo-fetal toxicity: No observed adverse effect level: 150 mg/kg body weight Embryotoxic effects and adverse effect level: 150 mg/kg body weight Embryotoxic effects and adverse effect on the offspring were detected only at high maternally toxic doses (OECD Test Guideline 414) STOT, RE: Oral (Rat), 90 days, Dose: 0-125-320ppm, NOEL: ≥8 mg/kg; LOEL: ≥21 mg/kg; Dermal (Rabbit), 21 day, Dose: 1-10-100mg/kg , NOEL: ≥10 mg/kg
Carbon Black, CAS #: 1333-86-4	Acute Toxicity Oral LD50 (Rat): >8,000 mg/kg; Carbon Black is inert, insoluble and is not expected to present an ingestion hazard Skin corrosion/irritation (Rabbit): non- irritating, index score 0.6/8 (4 = severe edema) Eye irritation (Rabbit): non- irritating, Draize score 10-17/110 (100 maximally irritating) Chronic toxicity: Germ cell mutagenicity: In Vitro: not suitable to be tested in bacterial (Ames test) and other in-vitro systems because of its insolubility. When tested, however, results for carbon black showed no mutagenic effects. Organic solvent extracts of carbon black can, however, contain traces of polycyclic aromatic hydrocarbons (PAHs). A study to examine the bioavailability of these PAHs showed that PAHs are very tightly bound to carbon black and not bioavailable. / In Vivo - In an experimental investigation, mutational changes in the hpt gene were reported in alveolar epithelial cells in the rat following inhalation exposure to carbon black. This observation is believed to be rat specific and a consequence of "lung overload" which led to chronic inflammation and release of oxygen species. This is thus considered to be a secondary genotoxic effect and thus carbon black itself would not be considered to be mutagenic. Carcinogenicity: IARC: Group 2B: Tumor development in rats caused by lung overload". No epidemiological evidence for lung tumors in humans. Lung tumors in rats are the result of exposure under "lung overload" conditions. The European CLP guidance on classification and labelling states, that Jung overload" in animals is listed under mechanism not relevant to humans and that no classification is necessary if the mechanism is not relevant to humans. ACGIH: Group A4 - Not classifiable as a human carcinogen. NIOSH: 1978 criteria document on carbon black recommends that only carbon blacks with PAH contaminant levels greater than 0.1% require the measurement of PAHs in air. As some PAHs are possible human carcinogens, NIOSH recommends an exposure limit of 0.1 mg/m³ for PAH

Released: July 18, 2016

# SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: Acutely and chronically hazardous for aquatic organisms. Do not release into natural waters.

Persistence and degradability: Not readily biodegradable by OECD criteria. In contact with water the substance will hydrolyze slowly.

Bioaccumulative potential: No significant accumulation in organisms is expected.

#### Mobility in soil: Not expected.

#### Other adverse effects: Not known.

#### Ecotoxicity test results: Not available for the mixture. Results for components:

Components	Test Results
Polyoxypropylenediamine, CAS #: 9046-10-0	Acute toxicity   Fish: LC50, 96hrs: >15 mg/L (OECD Guideline 203, semistatic) LC50, 96hrs: 772.14mg/L (OECD Guideline 203, static)   Aquatic invertebrates: EC50, 48hrs: 80 mg/L (OECD Guideline 202, part 1, static) EC50, 48hrs: 418.34mg/L (Daphnia test acute, static)   Aquatic plants: EC50, 72hrs: 15 mg/L (growth rate) (OECD Guideline 201, static) EC50, 72hrs: 15 mg/L (growth rate) (OECD Guideline 201, static) EC50, 72hrs: 141.72 mg/L (ISO/DIS 10253, static)   No observed effect concentration, 72hrs: 100 mg/L (ISO/DIS 10253, static) <u>Chronic toxicity</u> Fish: Study does not need to be conducted.   Aquatic invertebrates: Study does not need to be conducted. <u>Ecological Data</u> Activated sludge EC20, 3hrs: 380 mg/L (OECD Guideline 209)
Diethyltoluenediamine (DETDA), CAS #: 68479-98-1	Aquatic toxicity: Very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.   Acute Toxicity Fish: LC50 (Fathead minnow), 96hrs: >106 mg/L (OECD Guideline 203)   Aquatic Invertebrates: EC50 (Daphnia magna), 48hrs: 5.8 mg/L (OECD Guideline 202)   Algae: ErC50 (Green algae), 72hrs: 104 mg/L (OECD Guideline 201)   Ecological Data Microorganisms, EC50 (bacterium), 24hrs: >170 mg/L (DIN 38412 Part 8)   Biodegradation, 28days: <1 % (OECD Guideline 301D); COD: 2,370 mg/g
Carbon Black, CAS #: 1333-86-4	Acute toxicity   Fish: LC50 (Zebra fish), 96hrs (OECD Test Guideline 203): >1,000 mg/L   Aquatic invertebrates: EC50 (Daphnia magna), 24hrs (OECD Test Guideline 202): >5,600 mg/L   Aquatic plants: EC50 (Algae), 72hrs (OECD Test Guideline 201): >10,000mg/L; NOEC 50: >10,000 mg/L   Ecological Data   Activated sludge, EC0, 3hrs (TTC test, DEV L3): 800 mg/L   Persistence and degradability: Effects are not expected due to its stability and insolubility in water or organic solvents. Carbon black is inert   elemental carbon and cannot be further biodegraded by microorganisms, hydrolysis, photo-degradation in air or in surface water.   Bioaccumulative potential: No significant accumulation in organisms is expected. Not expected to occur in air or water in relevant amounts due to stability, insolubility and low vapor pressure. The deposition in soil or sediments is the most possible fate in the environment.

### **SECTION 13 – DISPOSAL CONSIDERATIONS**

**Product Disposal:** The generation of waste should be avoided or minimized wherever possible. If product becomes a waste, it does not meet criteria of hazardous waste as defined in 40 CFR 261, Subpart C and D. Do not discharge into sewer system. Spill cleanup residues may still be subject to RCRA storage and disposal requirements. Dispose waste in compliance with local, state and federal regulations via licensed waste disposal contractor.

**Container disposal:** Even after emptying, container may retain residues. Empty containers should be completely drained and safely stored until appropriately reconditioned or disposed through licensed contractor in accordance with government regulation. This material and its container must be disposed of in a safe way.

SECTION 14 – TRANSPORT INFORMATION				
	Land transport, U.S. DOT	Sea transport, IMDG:	Air transport, IATA/ICAO:	
UN number:	UN 2735	UN 2735	UN 2735	
UN proper shipping name:	Amines, liquid, corrosive, n.o.s. (contains Polyoxypropyleneamines)	Amines, liquid, corrosive, n.o.s. (contains Polyoxypropyleneamines)	Amines, liquid, corrosive, n.o.s. (contains Polyoxypropyleneamines)	
Transport hazard class(es):	8	8	8	
Packing group:		III		
Hazard Label	Corrosive	Corrosive	Corrosive	
Special precautions:		IMDG Emergency schedules (EmS) F-A S-B	Passenger Aircraft/Rail: Quantity limitation: 5 L Cargo Aircraft Only: Quantity limitation: 60 L	
Environmental Herord	Van Marina nallutant		· · ·	

**Environmental Hazard:** 

Yes, Marine pollutant

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Released: July 18, 2016
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# **SECTION 15 – REGULATORY INFORMATION**

# U.S. Regulations:

OSHA HCS: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29CFR 1910.1200. TSCA Regulations:

All components of this product are listed or are exempt from TSCA Inventory requirements under 40 CFR 720.30.

EPCRA Section 302 (40 CFR Part 355) (Emergency Response Planning, Extremely Hazardous Substance):

No components are subject to the reporting.

**EPCRA Section 304 (40 CFR Part 355)** (Emergency Release Notification Requirements): No components are subject to the reporting.

**EPCRA Sections 311 & 312** (Hazardous Chemical Inventory Reporting, Hazard Categories): Acute Health Hazard, Chronic Health Hazard

EPCRA Section 313 (40 CFR Part 372) (Toxic Chemical Release Inventory Reporting):

No components are subject to the reporting.

CERCLA Sections 102-103 (40 CFR Part 302) (Hazardous Substances Release Notification):

No components are subject to the reporting.

# Clean Air Act:

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- Ozone Depleting Substances (ODS): This product does not contain and is not manufactured with ozone depleting substances.
- Hazardous Air Pollutants, OSHA, Section 112(b), Table Z-1: The following component is listed:

	Regulatory Limits		imits	Recommended Limits		
Substance	OSH/	A PEL	Cal/OSHA PEL	NIOSH REL	ACGIH <sup>®</sup> 2015 TLV <sup>®</sup>	
	ppm	mg/m <sup>3</sup>	8-hour TWA, mg/m <sup>3</sup>	Up to 10-hour TWA, mg/m <sup>3</sup>	8-hour TWA, mg/m <sup>3</sup>	
Carbon Black, CAS #: 1333-86-4	-	3.5	3.5 mg/m <sup>3</sup>	3.5 mg/m <sup>3</sup> (without PAHs); when PAHs are present, NIOSH considers carbon black to be a potential occupational carcinogen.	3 mg/m <sup>3</sup> (IHL)	

ppm-parts per million;

NIOSH IDLH: Carbon Black, CAS #: 1333-86-4 in the presence of PAHs: 1,750 mg/m<sup>3</sup>/ TWA: 0.1 mg PAH s/m<sup>3</sup>

#### Clean Water Act:

- Section 307(a) (Toxic pollutants): No components are listed.
- Section 311(b)(2): Table 116.4A (Hazardous chemicals) / Table 117.3 (RQ): No components are listed.

NFPA rating:	Health: 3	Fire: 1	Reactivity: 0	Special: 0
HMIS rating:	Health: 3*	Flammability: 1	Physical hazard:	0

# State Regulations:

California Prop. 65 Components:

This product contains chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm. Carbon Black (airborne, unbound particles of respirable size), CAS #: 1333-86-4; Date listed: February 21, 2003

- causes cancer

Instruction: for regulatory information on components of this mixture, check the appropriate state websites.

#### International Regulations/Inventories:

Canada: All ingredients of this product are listed or are exempt from the DSL. WHMIS Classification (Controlled Products Regulations): Class D2B: Mate WHMIS Label Information: Class E: Corrosiv

Class D2B: Material causing other toxic effects Class E: Corrosive



CARBON BLACK: May cause discomfort to the respiratory tract, skin and eyes. The International Agency for Research on Cancer has classified carbon black as possibly carcinogenic to humans based on laboratory animal inhalation studies.

Avoid breathing dust and prolonged contact with skin and eyes. Use only with adequate ventilation. Wear suitable protective clothing, gloves, and eye protection. In case of contact: Wash skin thoroughly with soap and water. Flush eyes with plenty of water. See Material Safety Data Sheet for important additional information.

#### **SECTION 16 – OTHER INFORMATION**

LEGEND	
GHS	Globally Harmonized System
CAS	Chemical Abstracts Services
EC	European Community
EPA	Environmental Protection Agency
OSHA	Occupational Safety and Health Administration
ACGIH	American Conference of Governmental Industrial Hygienists
NIOSH	National Institute of Occupational Safety and Health
PEL	Permissible Exposure Limits
TLV	Threshold Limit Value
REL	Recommended Exposure Limit
TWA	Time-Weighted Average
STEL	Short-term exposure limit
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
COD / BOD	Chemical Oxygen Demand / Biological Oxygen Demand
STOT, SE	Specific Target Organ Toxicity following Single Exposure
STOT, RE	Specific Target Organ Toxicity following Repeated Exposure

Released: July 18, 2016

DOT	Department of Transportation
IMDG	International maritime dangerous goods code
IATA, ICAO	International Air Transport Association, International Civil Aviation Organization
TSCA	Toxic Substances Control Act
EPCRA	Emergency Planning and Community Right-to-Know Act
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CFR	Code of Federal Regulations
RQ	Reportable Quantity
EHS	Extremely Hazardous Substances
DSL	Domestic Substance List
WHMIS	Workplace Hazardous Materials Information System

Latest revision date: July 18, 2016 Date of the previous revision: May 20, 2015 – Preparation of SDS in accordance to the GHS requirements

**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 Corporation makes no warranty with respect to the accuracy of the information provided by their suppliers, and disclaims all liability of reliance thereof.