Part No.: 60273U

Released: July 25, 2017

# PRODUCT NAME(S): Poly X Resin

### **SECTION 1 - IDENTIFICATION**

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

Recommended use:

Product name:

**Poly X Resin** Spray Elastomer

Information phone: (858) 450 0441

Emergency contact: CHÉMTREC (800) 424 9300

### **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

Pictogram(s):







**GHS 05** 

GHS 08

GHS 07 GHS 09

#### Classification of the substance or mixture:

Hazard Class	Category	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.
Skin Sensitization	1B	H317	May cause an allergic skin reaction
Specific target organ toxicity, single exposure	3	H335	May cause respiratory irritation
Specific target organ toxicity, repeated exposure	2	H373	May cause respiratory irritation through prolonged or repeated exposure (Inhalation) May cause damage to liver, kidney and pancreas through prolonged or repeated exposure
Aquatic Hazard, Acute	2	H401	Toxic to aquatic life
Aquatic Hazard, Chronic	2	H411	Toxic to aquatic life with long lasting effects

### **Precautionary Statements:**

Precautionary	Statements:	
Prevention:	P260 P271 P270 P280 P264 P272 P273	Do not breathe mist, vapors, spray.  Use only outdoors or in a well-ventilated area.  Do not eat, drink, and smoke when using this product.  Wear protective gloves/ protective clothing / eye protection/ face protection.  Wash exposed area with plenty of water and soap thoroughly after handling.  Contaminated work clothing should not be allowed out of the workplace.  Avoid release to the environment.
Response:	P301 + P330 + P331 P303 + P361 + P353 P363 P305 + P351 + P338 P304 + P340 P310 P314 P391	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. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. Get medical advice/attention if you feel unwell. Collect spillage
Storage:	P403 + P233 P405	Store in a well-ventilated place. Keep container tightly closed. 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.

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS				
Components	CAS#	EC#	Concentration, %	
Confidential Component 1	Trade Secret	Trade Secret	25 – 50	
Polyoxypropylenetriamine	64852-22-8	613-700-1	25 – 50	
Confidential Component 2	Trade Secret	Trade Secret	10 – 20	
Tris (2-chloro-1-methylethyl) phosphate	13674-84-5	237-158-7	1 – 5	
Confidential Component 3	Trade Secret	Trade Secret	1 – 5	
Confidential Component 4	Trade Secret	Trade Secret	0.1 – 2	

#### SECTION 4 – FIRST-AID MEASURES

Description of First Aid measures:

**Inhalation:** Remove the exposed person to fresh air and keep at rest in a position comfortable for breathing. Get medical

attention if symptoms occur. Inhalation of large amounts of the product requires immediate medical attention.

If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained

personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

If unconscious, place in recovery position and maintain an open airway. Loosen tight clothing such as a collar, tie, belt

or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed.

Skin: Heavy exposure to the product requires prompt attention. 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. Injuries

must be treated promptly by a physician or dermatologist.

**Eye:** Immediately flush eyes cautiously with plenty of 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. Injuries must be treated promptly by a physician or ophthalmologist.

Ingestion: Remove the exposed person to fresh air and keep at rest in a position comfortable for breathing. Remove dentures if

any. Rinse mouth thoroughly with water and then give 60 to 240 mL (2 to 8 oz) of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Never induce vomiting or give anything

by mouth if the person is unconscious or having convulsions. Get medical attention immediately.

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 24 hours.

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:** Keep away from extreme heat or open flame. 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.

Note: Confidential Component 3, CAS #: Trade Secret: Flash Point: 30°C (86°F) - Flammable Liquid: Category 3

**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.

Water contaminated with this material must be contained and prevented being discharged to any waterway, sewer or drain. Fire water run-off, if not contained, may cause environmental damage. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.



#### **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. See Section 12.

Methods and materials for containment and cleaning up: Remove mechanically; cover the remainder with non-combustible absorbent material (e.g. sawdust, 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 move 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.

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:  $60 - 80^{\circ}F$  ( $16 - 27^{\circ}C$ )

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. 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.

#### 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: Liquid Odor: Slightly ammonia-like Odor threshold: Not available 10 - 11 pH: Melting point/ freezing point: Not available Initial boiling point and boiling range: Not available Flash point: Not available **Evaporation rate:** Not available Not available; CC3: 30°C (86°F) Flammability (solid, gas): Upper/ lower flammability or explosive limits: Not available; CC3: 25.1% / 0.7% 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: >180°C **Decomposition temperature:** Not available

CC3=Confidential Component 3, CAS #: Trade Secret

#### **SECTION 10 - STABILITY AND REACTIVITY**

**Reactivity:** Product will not undergo hazardous polymerization. Corrosive effects to metal are possible. 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.

Not available

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:** 

Viscosity:

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

Dermal: May cause severe burns. Adverse symptoms may include pain or irritation, redness, blistering.

**Inhalation:** When 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, respiratory arrest.

 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:

May cause serious skin burns. 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:

May cause respiratory irritation.

Confidential Component 1, CAS #: Trade Secret: May cause respiratory irritation.

Aspiration hazard: Not an aspiration hazard.

#### **Chronic toxicity:**

#### Respiratory and Skin Sensitizer:

This product contains component that is reported to be a skin sensitizer.

Confidential Component 1, CAS #: Trade Secret

#### Germ cell mutagenicity:

Based on available info, risk to humans is not expected from exposure to this product.

Carcinogenicity:

This product does not contain components known or reported to be carcinogenic by any reference by IARC, NTP, EPA, OSHA, ACGIH.

### Reproductive toxicity:

Based on available info, risk to humans is not expected from exposure to this product.

## Specific target organ toxicity, repeated exposure:

Liver, kidney, pancreas, skin, respiratory system.

#### Medical conditions aggravated by overexposure:

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

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

Components	Not available for mixture. Results for components:    Test Results
,	Acute Toxicity Oral LD50 (Rat): 1,000-2,000 mg/kg
	Dermal LD50 (Rabbit): 2,000-5,000 mg/kg Inhalation: Irritating to mucous membranes. Irritating to respiratory system. Skin corrosion/irritation (Rabbit): Irritating; may be harmful by skin contact.
	Serious eye damage/eye irritation: Irritating.  STOT, SE: May cause respiratory irritation.
Confidential Component 1, CAS #: Trade Secret	Aspiration Hazard: No.  Chronic toxicity
CAS #: Trade Secret	Sensitization: Skin sensitizer  Germ cell mutagenicity: No data available
	Carcinogenicity: No data available Reproductive Toxicity: No data available
	STOT, RE: eyes, skin, respiratory system  Other effects: may cause cyanosys. Absorption into the body leads to formation of methemoglobin which in sufficient concentration causes
	cyanosis. Onset may be delayed 2 to 4 hours or longer. Elevated blood pressure. Dizziness, tremors, convulsions, coma and dermatitis.  Acute Toxicity
	Oral LD50 (Ratbit): 2,690 mg/kg  Dermal LD50 (Rabbit): 12,500 mg/kg
Polyoxypropylenetriamine,	Inhalation IRT (Rat), 8hrs: No mortality in animal studies.  Skin corrosion/irritation (Rabbit): Irritating (OECD Guideline 404)
CAS #: 64852-22-8	Serious eye damage/eye irritation (Rabbit): Severely irritating Chronic toxicity
	Skin Sensitization (Guinea pig): Non-sensitizer (Buehler Test)  May cause irritation of respiratory tract.
	Acute Toxicity Oral LD50 (Rat): 2,000-5,000 mg/kg (OECD Test Guideline 401)
Confidential Component 2,	Dermal LD50 (Rabbit): >2,000 mg/kg (OECD Test Guideline 402) Skin corrosion/irritation (Rabbit): not irritating (OECD Test Guideline 404)
CAS #: Trade Secret	Serious eye damage/eye irritation (Rabbit): not irritating (OECD Test Guideline 405) Chronic toxicity
	Skin sensitization (Guinea pig): Non-sensitizing (OECD Test Guideline 406)  Acute Toxicity
	Oral LD50 (Rat), 24hrs: >1,101 mg/kg (OECD Test Guideline 401) Dermal LD50 (Rabbit), 24 hrs: >2,000 mg/kg
Tris (2-chloro-1- methylethyl) phosphate,	Inhalation LC50 (Rat), 4hrs: >7 mg/L; Skin corrosion/irritation (Rabbit), 24hrs: Non-irritating (OECD Test Guideline 404)
CAS #: 13674-84-5	Serious eye damage/eye irritation (Rabbit), 72hrs: Non-irritating (OECD Test Guideline 405)  Chronic toxicity
	Skin Sensitization (Mouse): negative (OECD Test Guideline 429) Reproductive Toxicity: Teratogenicity: Rat Dietary study; NOEL = 1000 mg/kg/day
	Carcinogenicity: Not observed  Acute Toxicity:
	Oral LD50 (Rat): 7,060 mg/kg. Expected to be a low ingestion hazard.  Dermal LD50 (Rabbit): 18,000 mg/kg. No adverse effects due to skin contact are expected.
	Inhalation LC50: No data available. Prolonged inhalation may be harmful.  Skin corrosion/irritation (Rabbit): No irritating effect. (OECD Test Guideline 404). Prolonged skin contact may cause temporary irritation.  Serious eye damage/eye irritation (Rabbit): No irritating effect. (OECD Test Guideline 405). Direct contact with eyes may cause temporary
	irritation.  STOT, SE: No data available.
Confidential Component 3, CAS #: Trade Secret	Aspiration hazard: No. Chronic toxicity:
	Sensitization, skin and respiratory (Guinea pig): Does not cause skin sensitization. (OECD Test Guideline 406, GPMT). Not a respiratory sensitizer.
	Germ cell mutagenicity (Salmonella typhimurium): negative (Ames test)  Carcinogenicity: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed
	human carcinogen by IARC, NTP, OSHA and ACGIH.  Reproductive toxicity: This product is not expected to cause reproductive or developmental effects. Not classified.
	STOT, RE: Prolonged inhalation may be harmful.  To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
	Acute Toxicity: Oral LD50 (Rat, male and female): >5,000 mg/kg *
Confidential Component 4, CAS #: Trade Secret	Dermal LD50 (Rat): No data available. Inhalation LC50: No data available.
	Skin corrosion/irritation (Rabbit): No irritating effect. ** Serious eye damage/eye irritation (Rabbit): No irritating effect. **

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STOT, SE: Not classified based on available information.
Aspiration hazard: Not classified based on available information.
Chronic toxicity:
Sensitization, skin and respiratory: Not classified based on available information. (Guinea pig Maximisation Test)\*\*
Germ cell mutagenicity: Not classified based on available information. in vitro (Salmonella typhimurium): negative (Ames test)\*
in vitro (Chromosome aberration test): Positive results were obtained in some in vitro tests.\*\*; in vivo: negative (micronucleus test)\*
Carcinogenicity: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, NTP, OSHA.
4.4-Diaminodiphenyl Sulphone, CAS #: 80-08-0: IARC Group 3 (Not classifiable as to its carcinogenicity to humans)
Reproductive toxicity: Not classified based on available information.
STOT, RE: Not classified based on available information. Oral (Rat), 28 Days: NOAEL: 15 mg/kg\*\*
\* Aromatic amino Polyol Orange; \*\* Aromatic amino Polyol Red

#### **SECTION 12 - ECOLOGICAL INFORMATION**

**Ecotoxicity:** Acutely and chronically hazardous for aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. Study of terrestrial toxicity is not necessary due to exposure considerations.

**Persistence and degradability:** Not readily biodegradable by OECD criteria. In contact with water the substance will hydrolyze slowly. After evaporation or exposure to the air, the product will be rapidly degraded by photochemical processes.

**Bioaccumulative potential:** No significant accumulation in organisms is expected. **Mobility in soil:** Not expected.

Other adverse effects: Due to the pH-value of the product, neutralization is generally required before discharging sewage into treatment plants. Do not release untreated into natural waters.

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

Components	Test Results		
Confidential Component 1, CAS #: Trade Secret	Dangerous to environment. Very toxic to aquatic life with long lasting effects. Avoid release to the environment.		
Polyoxypropylenetriamine, CAS #: 64852-22-8	Acute toxicity Fish: LC50, 96hrs: >100 mg/l (OECD Guideline 203, static) Aquatic invertebrates: EC50, 48hrs: 13 mg/L (OECD Guideline 202, part 1, static) Aquatic plants: EC50, 72hrs: 4.4 mg/L (growth rate) (OECD Guideline 201, static) Ecological Data Activated sludge (domestic) EC20, 30 min: ~130 mg/L (OECD Guideline 209, aerobic) Activated sludge (aerobic) BOD, 28days: < 5 % (OECD Guideline 301F) 5days: 3% (OECD Guideline 111, pH7) The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.		
Confidential Component 2, CAS #: Trade Secret	Acute Toxicity Fish: LC50 (fathead minnow), 96hrs: 1,000 mg/L Aquatic invertebrates: EC50 (Daphnia magna), 24hrs: >1,000 mg/L Aquatic plants: EC50 (green algae), 96hrs: 500-1,000 mg/L Ecological Data Toxicity to microorganisms: DEV-L2: >1,000mg/L Activated sludge, aerobic, domestic EC20, 30min: 1,000 mg/L (OECD Guideline 209) Biodegradability: poorly biodegradable Elimination information (aerobic, predominantly domestic sewage): 9 % BOD of the ThOD (28 d) (OECD Guideline 301F) Stability in water: in contact with water the substance will hydrolyze slowly. Bioaccumulative potential: not expected based on octanol/water distribution coefficient (log Pow). Mobility in soil: No data available.		
Tris (2-chloro-1- methylethyl) phosphate, CAS #: 13674-84-5	Acute Toxicity Fish: LC50 (fathead minnow), 96hrs: 51mg/L (OECD 203, static) Aquatic invertebrates: EC50 (Daphnia magna), 48hrs: 131 mg/L (OECD Test Guideline 202) Aquatic Plants:EC50 (algae), 72hrs: 82 mg/L (growth rate), (OECD Test Guideline 201) Microorganisms: EC50 (bacteria), 3hrs: 784 mg/L (ISO 8192) Chronic toxicity Aquatic invertebrates (Daphnia magna), 21 days NOEC: 32 mg/L Aquatic Plants ErC10 (algae), 72hrs: 42 mg/L (growth rate), (OECD Test Guideline 201) Ecological Data Biodegradation, 28days: 14 % - Not readily biodegradable (OECD Guideline 301C)		
Confidential Component 3, CAS #: Trade Secret	Acute Toxicity: Not classified as environmentally hazardous. Fish (Golden orfe), 48hrs: LC50: 592 mg/L Aquatic Invertebrates (Daphnia magna), 48hrs: EC50: 617 mg/L Ecological data: Persistence and degradability: Biodegradability aerobic, 28 days: 100% biodegradable. Readily biodegradable. Bioaccumulative potential: No data available. Mobility in soil: No data available.		
Confidential Component 4, CAS #: Trade Secret	Chronic aquatic toxicity: Category 3		

### **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	III	III		
Hazard Label	Corrosive	Corrosive	Corrosive		
Special precautions:		Emergency schedules (EmS): F-A, S-B Marine pollutant	Quantity limitation: Passenger Aircraft: 5 L, Cargo Aircraft Only: 60 L		

**Environmental Hazard:** Yes, Marine pollutant

#### **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:

- 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: No components are listed.

### **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: 1 Special: 0

**HMIS rating:** Health: 3\* Flammability: 1 Physical hazard: 1

#### State Regulations:

California Prop. 65 Components:

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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 Class D2B: Material causing other toxic effects

Regulations): Class E: Corrosive

WHMIS Label 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

Permissible Exposure Limits PEL TLV REL TWA STEL Threshold Limit Value Recommended Exposure Limit Time-Weighted Average Short-term exposure limit

International Agency for Research on Cancer IARC

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

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 Reportable Quantity RQ DSL Domestic Substance List

WHMIS Workplace Hazardous Materials Information System

Latest revision date: July 25, 2017 - New Date of the previous revision: New

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.