Released: August 1, 2016

PRODUCT NAME(S): HardLine[®] 21-55 Resin **SECTION 1 – IDENTIFICATION** Manufacturer's Info: HardLine[®] 21-55 Resin Product name: **Rhino Linings Corporation** 9747 Businesspark Avenue San Diego, CA 92131 Information phone: (858) 450 0441 Emergency contact: CHEMTREC (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: Pictogram(s): DANGER **GHS 05 GHS 08** GHS 07 Classification of the substance or mixture: Hazard Class Hazard Statement Codes Hazard Statements Category Acute Toxicity, Oral 4 H302 Harmful if swallowed Acute Toxicity, Dermal 5 H313 May be harmful in contact with skin Skin corrosion / irritation 1B Causes severe skin burns and eye damage. H314 Serious eye damage / Eye irritation Causes serious eye damage. 1 H318 May cause damage to kidney, liver and central nervous system through prolonged or repeated Specific target organ toxicity, 2 H373 exposure repeated exposure May cause damage to lungs/respiratory system through prolonged or repeated exposure by inhalation 4 May cause long lasting harmful effects to aquatic life Aquatic Hazard, Chronic H413 **Precautionary Statements:** Prevention: P260 Do not breathe mist, vapors, spray. P270 Do not eat, drink, and smoke when using this product. P280 Wear protective gloves/ protective clothing / eye protection/ face protection. P264 Wash exposed area with plenty of water and soap thoroughly after handling. P273 Avoid release to the environment. P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do not induce vomiting. Response: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. P303 + P361 + P353 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. Immediately call a POISON CENTER or doctor/physician. P310 P314 Get medical advice/attention if you feel unwell. P363 Wash contaminated clothing before reuse. Storage: Store locked up. P405 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, %
Polyether polyols	9082-00-2	618-655-1	50 – 75
Diethylene Glycol	111-46-6	203-872-2	5 – 15
Polyoxypropylenediamine	9046-10-0	618-561-0	5 – 15

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Confidential Component 1		Trade secret	Trade secret	5 – 15
Zeolites		1318-02-1	930-915-9	1 – 5
		SECTION 4 – FIRST-AID	MEASUDES	
Description of	f First Aid massures	SECTION 4 - FIRST-AID	MEASURES	
Inhalation:	of First Aid measures: Remove exposed person to fresh air and keep at rest in a position comfortable for breathing. 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. Immediate medical attention required. Call a poison center or physician. In case of inhalation of decomposition products in a fire, symptoms may be delayed.			
Skin:	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. Immediate medical attention required. Call a poison center or physician.			
Eye:	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. Immediate medical attention required. Call a poison center or physician.			
Ingestion:	Move to fresh air and keep at rest in a position comfortable for breathing. Remove dentures if any. If the exposed person is conscious, rinse mouth with water and then give plenty of water to drink. Stop if the expose person feels sick as vomiting may be dangerous. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Do not induce vomiting unless directed to do so by medical personnel. 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 victim is unconscious or having convulsions. Immediate medical attention required. Call a poison center or physician.			to drink. Stop if the exposed kept low so that vomit does el. in an open airway. Loosen ing by mouth if the victim is

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.

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.

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. 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.

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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°F (16 – 32°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. Results for components are listed in Section 15.

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.

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:	Yellow Liquid	
Odor:	Slightly ammonia-like	
Odor threshold:	Not available	
pH:	8 - 10	
Melting point/ freezing point:	Not available	
Initial boiling point and boiling range:	>200°C	

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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:	Not available

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. Adverse symptoms may include abdominal pain, nausea, vomiting, and diarrhea.

Dermal: May be harmful in contact with skin. Adverse symptoms may include irritation and redness.

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.

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.

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 does not contain components known or reported to be carcinogenic by IARC, NTP, EPA, OSHA, ACGIH. Zeolites, CAS #: 1318-02-1: IARC: Group 3 (Not Classifiable as to its Carcinogenicity to Humans)

Reproductive toxicity:

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

Specific target organ toxicity, repeated exposure:

Liver, kidney, respiratory system/lungs, central nervous system.

Medical conditions aggravated by overexposure:

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

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

Components	Test Results
	Non-hazardous
Polyether polyols, CAS #: 9082-00-2	Acute Toxicity Oral LD50 (Rat): >5,000 mg/kg; may cause mild gastrointestinal effects including nausea and diarrhea. Dermal LD50 (Rab): >2,000 mg/kg Inhalation LC50 (Rat). 1hr : >200 mg/L; not expected to cause any significant respiratory tract effects. Skin corrosion/irritation (Rabbit): may cause slight irritation, but not expected to cause serious damage. Serious eye damage/eye irritation (Rabbit): may cause irritation (redness), but not expected to cause serious damage. STOT, SE: risk to humans is not expected from exposure to this product. Aspiration hazard: No <u>Chronic toxicity</u> Sensitization, skin and respiratory: Not sensitizer Germ cell mutagenicity: Risk to humans is not expected from exposure to this product. 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: Risk to humans is not expected from exposure to this product. STOT, RE: No known or reported target organs from repeated exposure. Acute Toxicity
Diethylene Glycol, CAS #: 111-46-6	Acture Toxicity Oral LD50 (Rat): 1,120 mg/kg; moderately toxic after single ingestion Dermal LD50 (Rat): 1,120 mg/kg; moderately toxic after single ingestion Dermal LD50 (Rat): 1,1890 mg/kg Inhalation LC50 (Rat), 4hr: >4.6 mg/L; not expected to cause any significant respiratory tract effects. Skin corrosion/irritation (Human), 24hrs: not irritating (Patch test) Serious eye damage/eye irritation (Rabbit): not irritating STOT, SE: No data available. Aspiration hazard: No. <u>Chronic toxicity</u> Sensitization, skin and respiratory (Guinea pig): Not skin sensitizer (GPMT) Germ cell mutagenicity: negative in vitro and in vivo test. Carcinogenicity (Rat, Oral), 108 weeks: NOAEL: 1,210 mg/kg bwt; No evidence of carcinogenicity. Reproductive toxicity: Fertility (Rat, Oral) two generation study: NOAEL: 2,200 mg/kg bwt; Fetal Development (Rabit, Oral), 30days: NOAEL: 1,000 mg/kg bwt; No reproductive effects. Has caused toxicity to the fetus and some birth defects at maternally toxic, high doses in animals. Other animal studies have not reproduced birth defects even at much higher doses that caused severe maternal toxicity. STOT, RE (Rat, Oral), 4weeks/daily: NOAEL: 10,000 mg/kg - Kidney damage; Category 2
Polyoxypropylenediamine, CAS #: 9046-10-0	<u>Acute Toxicity</u> 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.
Confidential Component 1, CAS #: Trade secret	Acute Toxicity Oral LD50 (Rat): >5,000 mg/kg; No mortality was observed (OECD Test Guideline 401) Dermal LD50 (Rat): >5,000 mg/kg; No mortality was observed (OECD Test Guideline 402) Inhalation, aerosol, LC50 (Rat), 4hrs: 1-5 mg/L; No mortality was observed (similar to OECD Test Guideline 403) Skin corrosion/irritation (Rabbit): Non-irritating (OECD Test Guideline 404) Serious eye damage/eye irritation (Rabbit): Non-irritating. STOT, SE: risk to humans is not expected from exposure to this product. Aspiration hazard: No. <u>Chronic toxicity</u> Sensitization, skin and respiratory: Negative (Guinea pig) Mutagenicity: Not mutagenic in bacteria, mammalian cell culture and test with mammals. Carcinogenicity: Not observed. Reproductive toxicity: Not observed. STOT, RE: Central nervous system, kidney.
Zeolites, CAS #: 1318-02-1	Acute Toxicity Oral LD50 (Rat): >5,110 mg/kg (OECD Guideline 401); May cause gastrointestinal tract irritation. Dermal LD50 (Rat): >5,110 mg/kg (OECD Guideline 401); May cause gastrointestinal tract irritation. Dermal LD50 (Ratbit): Not data available Inhalation LC50 (Rat)(dust/aerosol), 4hrs : >5.3 mg/L. Slightly irritant. Skin corrosion/irritation (Rabbit): Slightly irritant. May cause dehydration. Serious eye damage/eye irritation (Rabbit): Slightly irritant. May cause abrasion or mechanical irritation. STOT, SE: risk to humans is not expected from exposure to this product. Aspiration hazard: No Chronic toxicity Germ cell mutagenicity: Risk to humans is not expected from exposure to this product. Carcinogenicity: IARC: Group 3 (Not Classifiable as to its Carcinogenicity to Humans) Reproductive toxicity: No adverse effects in rats and rabbits or their offspring following administration in the drinking water during pregnancy. STOT, RE: Effects on kidney were observed in rats and dogs administered high dose levels in their feed for one month. Effect on blood, chronic pneumonitis and acute bronchopneumonia were observed in dogs. Long-term inhalation by rats and dogs produced inflammation in the lungs associated with accumulation of particulate.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: May cause long lasting harmful effects to aquatic life. 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.

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

Components	Test Results
Polyether polyols,	Acute Toxicity:
CAS #: 9082-00-2	Fish: LC 50, 96hrs: >100 mg/L (based on available data and comparison to similar compounds)
	Acute Toxicity Fish: LC50 (fathead minnow), 96hrs: 75,200mg/L (flow-through test)
	Aquatic invertebrates: EC50 (Daphnia magna), 24hrs: >10,000 mg/L (static test)
Diethylene Glycol,	Aquatic plants: EC50 (green algae), 96hrs: 6,500 - 13,000 mg/L (growth rate inhibition) (similar substance)
CAS #: 111-46-6	Ecological Data
	Biodegradability (Activated sludge, aerobic), 28days: 90-100% - Readily biodegradable (OECD Test Guideline 301B)
	Bioaccumulative potential: log Pow: -1.98 Mobility in soil: No data available.
	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)
Polyoxypropylenediamine,	Aquatic plants: EC50, 72hrs: 15 mg/L (growth rate) (OECD Guideline 201, static) EC50, 72hrs: 141.72 mg/L (ISO/DIS 10253, static)
CAS #: 9046-10-0	No observed effect concentration, 72hrs: 100 mg/L (ISO/DIS 10253, static)
	Chronic toxicity
	Fish: Study does not need to be conducted.
	Aquatic invertebrates: Study does not need to be conducted.
	Ecological Data Activated sludge EC20, 3hrs: 380 mg/L (OECD Guideline 209)
	Aquatic toxicity: High probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of
	Activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.
	Acute Toxicity:
	Fish (fathead minnow), 96hrs: LC50: >40,000 mg/L (OECD Test Guideline 203, static). Product not tested; The statement has been derived
	from substances/products of a similar structure or composition.
	Aquatic Invertebrates (Daphnia magna), 48hrs: EC50: >100 mg/L (OECD Test Guideline 202, part 1, static) Aquatic Plants (algae), 72hrs: EC50: >100 mg/L (OECD Test Guideline 201)
Confidential Component 1,	Activated sludge (bacteria), 18hrs: EC10: >1,000 mg/L
CAS #: Trade secret	Chronic toxicity:
	Other terrestrial, non-mammals, 14days: LD50: >2,000 mg/kg
	Ecological Data:
	Biodegradation: Readily biodegradable (OECD Test Guideline 301D)
	Elimination, aerobic, activated sludge, domestic, 28 days: 80-90% BOD of the ThOD (OECD Test Guideline 301F) DOC reduction, aerobic, microorganisms, industrial, 64days: 20-25 % (OECD Test Guideline 306)
	Bioaccumulative potential: Does not significantly accumulate in organisms.
	Mobility in soil: Not expected.
	Acute Toxicity:
	Fish (fathead minnow), 96hrs: LC50: >680 mg/L (EPA 72-1, static). The details of the toxic effect relate to the nominal concentration. The LC50
	is higher than the solubility limit. Aquatic invertebrates (Daphnia magna), 24hrs: EC50: 2,808 mg/L (OECD Test Guideline 202, part 1, static)
Zeolites, CAS #: 1318-02-1	Aquatic plants (Green algae), 96hrs: EC50: >328 mg/L (OECD Test Guideline 201, static). The details of the toxic effect relate to the nominal
	concentration. Tested above maximum solubility. The product has low solubility in the test medium. An eluate has been tested.
	Microorganisms (Bacteria), 16hrs: EC50: 950 mg/L (Growth inhibition) (DIN 38412, Part 8). The product has not been tested. The statement
	has been derived from substances/products of a similar structure or composition. The details of the toxic effect relate to the nominal
	concentration. The product has low solubility in the test medium. An eluate has been tested. Chronic toxicity:
	Fish (fathead minnow), 30days: NOEC: ≥86.7 mg/L (OPP 72-5, EPA-Guideline, Flow through). The statement of the toxic effect relates to the
	analytically determined concentration.
	Aquatic invertebrates (Daphnia magna), 21 days: NOEC: 32 mg/L (OECD Test Guideline 211, semistatic). The details of the toxic effect relate
	to the nominal concentration. The product has low solubility in the test medium. An eluate has been tested.
	Ecological Data: Biodegradability: Not readily biodegradable. The product is virtually insoluble in water and can thus be separated from water mechanically in
	Biodegradability: Not readily biodegradable. The product is virtually insoluble in water and can thus be separated from water mechanically in suitable effluent treatment plants. It cannot be eliminated from water by biological purification processes.
	Mobility in soil: Transport between environmental compartments: Study scientifically not justified.

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.

Land transport, U.S. DOT:
Sea transport, IMDG:
Air transport, IATA/ICAO:

SECTION 14 – TRANSPORT INFORMATION

Non-regulated Non-regulated Non-regulated

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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 or impurities of this product are present above De Minimis level and therefore do not require 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: The following component(s) are listed:

Substance		Regulatory Limits		ory Limits	Recommended Limits	
		OSHA	PEL	Cal/OSHA PEL	NIOSH REL	ACGIH [®] 2015 TLV [®]
		ppm	mg/m ³	8-hour TWA, mg/m ³	Up to 10-hour TWA, mg/m ³	8-hour TWA, mg/m ³
Hydrated Aluminum Silicate (Kaolin), Tot	otal dust	-	15	-	10	-
CAS #: 1332-58-7 Re	espirable fraction	-	5	2 *	5	2 *

ppm-parts per million; *- no asbestos and <1% Crystalline Silica;

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: 2Fire: 1Reactivity: 1Special: 0HMIS rating:Health: 2*Flammability: 1Physical hazard: 1

State Regulations:

California Prop. 65 Components:

This product does not contain 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 Regulations): Class D2B: Material causing other toxic effects WHMIS Label Information:



LEGEND

SECTION 16 – OTHER INFORMATION

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
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



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CFRCode of Federal RegulationsRQReportable QuantityEHSExtremely Hazardous SubstancesDSLDomestic Substance ListWHMISWorkplace Hazardous Materials Information System

Latest revision date: August 1, 2016 Date of the previous revision: December 9, 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.