

**PRODUCT NAME(S): HardLine® 21-55-120 Resin**

**SECTION 1 – IDENTIFICATION**

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

**Product name:** HardLine® 21-55-120 Resin

**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):**  
WARNING



GHS 08

**Classification of the substance or mixture:**

| Hazard Class                                      | Category | Hazard Statement Codes | Hazard Statements   |
|---|----------|------------------------|---|
| Skin corrosion / irritation                       | 3        | H316                   | Causes mild skin irritation   |
| Serious eye damage / Eye irritation               | 2B       | H320                   | Causes eye irritation   |
| Specific target organ toxicity, repeated exposure | 2        | H373                   | May cause damage to kidney and central nervous system through prolonged or repeated exposure<br>May cause damage to lungs/respiratory system through prolonged or repeated exposure by inhalation |

**Precautionary Statements:**

**Prevention:**    P260                      Do not breathe mist, vapors, spray.  
                         P264                      Wash exposed area with plenty of water and soap thoroughly after handling.

**Response:**        P332 + P313              If skin irritation occurs: Get medical advice/attention.  
                         P305 + P351 + P338    IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
                         P337+P313              If eye irritation persists: Get medical advice/attention.  
                         P314                      Get medical advice/attention if you feel unwell.

**Storage:**            None

**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    | 10 – 20          |
| Confidential Component 1 | Trade secret | Trade secret | 5 – 15           |
| Confidential Component 2 | Trade secret | Trade secret | 1 – 5            |
| Zeolites                 | 1318-02-1    | 930-915-9    | 1 – 5            |

**SECTION 4 – FIRST-AID MEASURES**

**Description of First Aid measures:**

**Inhalation:**        Move to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory problems, seek medical attention.

**Skin:**                Wash material off of the skin with plenty of soap and water. Remove contaminated clothing and shoes and wash them before reuse. Get medical advice/attention if irritation persists.

**Released: August 1, 2016**

**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 corneal injury. Get medical advice/attention if eye irritation persists.

**Ingestion:** Move to fresh air and keep at rest in a position comfortable for breathing. Remove dentures if any. Rinse mouth thoroughly with water and then drink 60 to 240 mL (2 to 8 oz). Get medical advice/attention if symptoms occur.

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

**General advice for First Aid responders:** 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.

#### **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. See Section 12 for more details.

**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. 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)

**Released: August 1, 2016**

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 recommended. Examples of eye protection include safety glasses and goggles. Contact lenses should not be worn when working with chemicals.

**Skin/body protection:**

Use suitable protective gloves (nitrile butyl rubber, neoprene and PVC) when working with any chemical 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. 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. Clean water should always be readily available for emergency skin and eye washing. Emergency eyewash fountains and safety shower are recommended in close proximity as a matter of good work practice.

### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

|   |                         |
|---|-------------------------|
| <b>Appearance:</b>                                    | Yellow Liquid           |
| <b>Odor:</b>  | Mild                    |
| <b>Odor threshold:</b>                                | Not available           |
| <b>pH:</b>  | 8 – 10                  |
| <b>Melting point/ freezing point:</b>                 | Not available           |
| <b>Initial boiling point and boiling range:</b>       | >200°C                  |
| <b>Flash point:</b>                                   | >200°C                  |
| <b>Evaporation rate:</b>                              | Not applicable          |
| <b>Flammability (solid, gas):</b>                     | Not applicable          |
| <b>Upper/ lower flammability or explosive limits:</b> | Not applicable          |
| <b>Vapor pressure:</b>                                | Negligible              |
| <b>Vapor density:</b>                                 | Not available           |
| <b>Relative density:</b>                              | 1.00-1.05 @ 25°C (77°F) |
| <b>Solubility (water):</b>                            | Very slightly soluble   |
| <b>Partition coefficient n-octanol/water:</b>         | Not available           |
| <b>Auto-ignition temperature:</b>                     | >250°C                  |
| <b>Decomposition temperature:</b>                     | Not available           |
| <b>Viscosity:</b>                                     | 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:** Not anticipated, however, adverse symptoms may include abdominal pain, nausea and diarrhea.

**Dermal:** Not anticipated; adverse symptoms are not expected.

**Inhalation:** Inhalation is unlikely due to the low vapor pressure.

**Skin corrosion / irritation:**

May cause mild, temporary skin irritation if not washed off accordingly. Adverse symptoms may include redness.

**Serious eye damage / eye irritation:**

May cause mild, temporary eye irritation. Adverse symptoms may include tearing and redness.

**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 reported to be possibly carcinogenic to humans by IARC.

- o 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:**

Kidney, respiratory system/lungs, central nervous system.

**Medical conditions aggravated by overexposure:**

Kidney, respiratory system/lungs, central nervous system disorders if product is handled without adequate protection.

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

| Components                                       | Test Results   |
|--|--|
| Polyether polyols,<br>CAS #: 9082-00-2           | <p>Non-hazardous</p> <p><b>Acute Toxicity</b><br/>           Oral LD50 (Rat): &gt;5,000 mg/kg; may cause mild gastrointestinal effects including nausea and diarrhea.<br/>           Dermal LD50 (Rabbit): &gt;2,000 mg/kg<br/>           Inhalation LC50 (Rat), 1hr : &gt;200 mg/L; not expected to cause any significant respiratory tract effects.<br/>           Skin corrosion/irritation (Rabbit): may cause slight irritation, but not expected to cause serious damage.<br/>           Serious eye damage/eye irritation (Rabbit): may cause irritation (redness), but not expected to cause serious damage.<br/>           STOT, SE: risk to humans is not expected from exposure to this product.</p> <p>Aspiration hazard: No</p> <p><b>Chronic toxicity</b><br/>           Sensitization, skin and respiratory: Not sensitizer<br/>           Germ cell mutagenicity: Risk to humans is not expected from exposure to this product.<br/>           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.<br/>           Reproductive toxicity: Risk to humans is not expected from exposure to this product.<br/>           STOT, RE: No known or reported target organs from repeated exposure.</p>   |
| Diethylene Glycol,<br>CAS #: 111-46-6            | <p><b>Acute Toxicity</b><br/>           Oral LD50 (Rat): 300-2,000 mg/kg; moderately toxic after single ingestion<br/>           Dermal LD50 (Rabbit): &gt;5,000 mg/kg<br/>           Inhalation LC50 (Rat, aerosol), 4hr: ~5 mg/L; not expected to cause any significant respiratory tract effects.<br/>           Skin corrosion/irritation (Human), 24hrs: not irritating (Patch test)<br/>           Serious eye damage/eye irritation (Rabbit): not irritating<br/>           STOT, SE: No data available.</p> <p>Aspiration hazard: No</p> <p><b>Chronic toxicity</b><br/>           Sensitization, skin and respiratory (Guinea pig): Not skin sensitizer (GPMT)<br/>           Germ cell mutagenicity: negative in vitro and in vivo test<br/>           Carcinogenicity (Rat, Oral), 108 weeks: NOAEL: 1,210 mg/kg bwt; No evidence of carcinogenicity.<br/>           Reproductive toxicity: Fertility (Rat, Oral) two generation study: NOAEL: 2,200 mg/kg bwt; Fetal Development (Rabbit, 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.<br/>           Other animal studies have not reproduced birth defects even at much higher doses that caused severe maternal toxicity.<br/>           STOT, RE (Rat, Oral), 4weeks/daily: NOAEL: 10,000 mg/kg - Kidney damage; Category 2</p> |
| Confidential Component 1,<br>CAS #: Trade secret | <p><b>Acute Toxicity</b><br/>           Oral LD50 (Rat): &gt;5,000 mg/kg; No mortality was observed (OECD Test Guideline 401)<br/>           Dermal LD50 (Rat): &gt;5,000 mg/kg; No mortality was observed (OECD Test Guideline 402)<br/>           Inhalation, aerosol, LC50 (Rat), 4hrs: 1-5 mg/L; No mortality was observed (similar to OECD Test Guideline 403)<br/>           Skin corrosion/irritation (Rabbit): Non-irritating (OECD Test Guideline 404)<br/>           Serious eye damage/eye irritation (Rabbit): Non-irritating.<br/>           STOT, SE: risk to humans is not expected from exposure to this product.</p> <p>Aspiration hazard: No.</p>  |

|  |   |
|--|---|
|  | <p><u>Chronic toxicity</u><br/>Sensitization, skin and respiratory: Negative (Guinea pig)<br/>Mutagenicity: Not mutagenic in bacteria, mammalian cell culture and test with mammals.<br/>Carcinogenicity: Not observed.<br/>Reproductive toxicity: Not observed.<br/>STOT, RE: Central nervous system, kidney.</p>  |
| Confidential Component 2,<br>CAS #: Trade secret | <p><u>Acute Toxicity</u><br/>Oral LD50 (Rat): 1,000-2,000 mg/kg; Harmful if swallowed. May cause gastrointestinal effects including nausea, lethargy and diarrhea.<br/>Dermal LD50 (Rabbit): &gt;2,000 mg/kg<br/>Inhalation LC50 (Rat), 1hr: No data available.<br/>Skin corrosion/irritation (Rabbit): may cause slight irritation, but not expected to cause serious damage.<br/>Serious eye damage/eye irritation (Rabbit): may cause irritation (redness), but not expected to cause serious damage.<br/>STOT, SE: risk to humans is not expected from exposure to this product.<br/>Aspiration hazard: No</p> <p><u>Chronic toxicity</u><br/>Sensitization, skin and respiratory: Not sensitizer<br/>Germ cell mutagenicity: Risk to humans is not expected from exposure to this product.<br/>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.<br/>Reproductive toxicity: Risk to humans is not expected from exposure to this product.<br/>STOT, RE: No known or reported target organs from repeated exposure.</p>   |
| Zeolites,<br>CAS #: 1318-02-1                    | <p><u>Acute Toxicity</u><br/>Oral LD50 (Rat): &gt;5,110 mg/kg (OECD Guideline 401); May cause gastrointestinal tract irritation.<br/>Dermal LD50 (Rabbit): Not data available<br/>Inhalation LC50 (Rat)(dust/aerosol), 4hrs : &gt;5.3 mg/L. Slightly irritant.<br/>Skin corrosion/irritation (Rabbit): Slightly irritant. May cause dehydration.<br/>Serious eye damage/eye irritation (Rabbit): Slightly irritant. May cause abrasion or mechanical irritation.<br/>STOT, SE: risk to humans is not expected from exposure to this product.<br/>Aspiration hazard: No</p> <p><u>Chronic toxicity</u><br/>Sensitization, skin and respiratory: Not sensitizer (Guinea pig maximization test)<br/>Germ cell mutagenicity: Risk to humans is not expected from exposure to this product.<br/>Carcinogenicity: IARC: Group 3 (Not Classifiable as to its Carcinogenicity to Humans)<br/>Reproductive toxicity: No adverse effects in rats and rabbits or their offspring following administration in the drinking water during pregnancy.<br/>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.</p> |

### SECTION 12 – ECOLOGICAL INFORMATION

**Ecotoxicity:** Not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. Do not release into natural waters.

**Persistence and degradability:** Not readily biodegradable by OECD criteria.

**Bioaccumulative potential:** No significant accumulation in organisms is expected.

**Mobility in soil:** Not known.

**Other adverse effects:** Not known.

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

| Components                                       | Test Results   |
|--|--|
| Polyether polyols,<br>CAS #: 9082-00-2           | <u>Acute Toxicity:</u> Fish: LC 50, 96hrs: >100 mg/L (based on available data and comparison to similar compounds)   |
| Diethylene Glycol,<br>CAS #: 111-46-6            | <p><u>Acute Toxicity</u><br/>Fish: LC50 (fathead minnow), 96hrs: 75,200mg/L (flow-through test)<br/>Aquatic invertebrates: EC50 (Daphnia magna), 24hrs: &gt;10,000 mg/L (static test)<br/>Aquatic plants: EC50 (green algae), 96hrs: 6,500 - 13,000 mg/L (growth rate inhibition) (similar substance)</p> <p><u>Ecological Data</u><br/>Biodegradability (Activated sludge, aerobic), 28days: 90-100% - Readily biodegradable (OECD Test Guideline 301B)<br/>Bioaccumulative potential: log Pow: -1.98<br/>Mobility in soil: No data available.</p>  |
| Confidential Component 1,<br>CAS #: Trade secret | <p><u>Aquatic toxicity:</u> 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.</p> <p><u>Acute Toxicity:</u><br/>Fish (fathead minnow), 96hrs: LC50: &gt;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.<br/>Aquatic Invertebrates (Daphnia magna), 48hrs: EC50: &gt;100 mg/L (OECD Test Guideline 202, part 1, static)<br/>Aquatic Plants (algae), 72hrs: EC50: &gt;100 mg/L (OECD Test Guideline 201)<br/>Activated sludge (bacteria), 18hrs: EC10: &gt;1,000 mg/L</p> <p><u>Chronic toxicity:</u> Other terrestrial, non-mammals, 14days: LD50: &gt;2,000 mg/kg</p> <p><u>Ecological Data:</u><br/>Biodegradation: Readily biodegradable (OECD Test Guideline 301D)<br/>Elimination, aerobic, activated sludge, domestic, 28 days: 80-90% BOD of the ThOD (OECD Test Guideline 301F)<br/>DOC reduction, aerobic, microorganisms, industrial, 64days: 20-25 % (OECD Test Guideline 306)<br/>Bioaccumulative potential: Does not significantly accumulate in organisms.<br/>Mobility in soil: Not expected.</p> |
| Confidential Component 2,<br>CAS #: Trade secret | <u>Aquatic toxicity:</u> 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. Product not tested; The  |

|                               |  |
|-------------------------------|--|
|                               | <p>statement has been derived from substances/products of a similar structure or composition.</p> <p><u>Acute Toxicity:</u><br/> Fish (zebra fish), 96hrs: LC50: &gt;100 mg/L<br/> Aquatic Invertebrates (Daphnia magna), 48hrs: EC50: &gt;100 mg/L<br/> Aquatic Plants (algae), 72hrs: EC50: &gt;100 mg/L (Guideline 92/69/EEC, C.3)<br/> Microorganisms (activated sludge), 0.5hrs: EC20: &gt;1,000 mg/L</p> <p><u>Ecological Data:</u><br/> Biodegradation: Not readily biodegradable.<br/> Bioaccumulative potential: Does not significantly accumulate in organisms.<br/> Mobility in soil: Not expected.<br/> Product does not contain organically bound halogen.</p>  |
| Zeolites,<br>CAS #: 1318-02-1 | <p><u>Acute Toxicity:</u><br/> Fish (fathead minnow), 96hrs: LC50: &gt;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.<br/> Aquatic invertebrates (Daphnia magna), 24hrs: EC50: 2,808 mg/L (OECD Test Guideline 202, part 1, static)<br/> Aquatic plants (Green algae), 96hrs: EC50: &gt;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.<br/> 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.</p> <p><u>Chronic toxicity:</u><br/> 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.<br/> Aquatic invertebrates (Daphnia magna), 21days: 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.</p> <p><u>Ecological Data:</u><br/> 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.<br/> Mobility in soil: Transport between environmental compartments: Study scientifically not justified.</p> |

### 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:** Non-regulated  
**Sea transport, IMDG:** Non-regulated  
**Air transport, IATA/ICAO:** Non-regulated

### 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: The following component is listed:

| Substance   | Regulatory Limits   |                   |                               | Recommended Limits                   |                               |     |
|---|---------------------|-------------------|-------------------------------|--------------------------------------|-------------------------------|-----|
|   | OSHA PEL            | Cal/OSHA PEL      | NIOSH REL                     | ACGIH® 2015 TLV®                     |                               |     |
|   | 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> |     |
| Hydrated Aluminum Silicate (Kaolin), CAS #: 1332-58-7 | Total dust          | -                 | 15                            | -                                    | 10                            | -   |
|   | Respirable 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: 2 Fire: 1 Reactivity: 1 Special: 0  
**HMIS rating:** Health: 2\* Flammability: 1 Physical 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:



**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                         |
| 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:** 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.