

PRODUCT NAME(S): Polymer Concrete Retarder

SECTION 1 – IDENTIFICATION

Manufacturer's Info: Rhino Linings Corporation 9747 Businesspark Avenue San Diego, CA, 92131	Product name: Chemical family: Recommended use:	Polymer Concrete Retarder Aqueous Solution of Hydroxycarboxylic Acid Salts and Compound Carbohydrates Stabilization of Cement Hydration
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 07

Classification of the substance or mixture:

<u>Hazard Class</u>	<u>Category</u>	<u>Hazard Statement Codes</u>	<u>Hazard Statements</u>
Skin Sensitization	1	H317	May cause an allergic skin reaction

Precautionary Statements:

Prevention:	P261 P272 P280	Avoid breathing mist, vapors, spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves.
Response:	P302 + P352 P332 + P313 P363	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/ attention. Wash contaminated clothing before reuse.
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: See Section 11.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS #</u>	<u>EC #</u>	<u>Concentration, %</u>
5-chloro-2-methyl-2H-isothiazol-3-one	26172-55-4	203-545-4	0 - 0.1

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: Immediately wash material off of the skin with plenty of soap and water. Remove contaminated clothing and shoes immediately and wash them before reuse. Get medical advice/attention if irritation develops.

Eye: Rinse 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 immediate medical advice.

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). Do not induce vomiting; immediately call for medical help.

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

General advice for First Aid responders: Show this SDS to physician.

Released: March 23, 2016

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: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media: None.

Specific hazards arising from the chemical: Not known. Hazardous Combustion products: carbon oxides and other toxic fumes.

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.

Contain fire water run-off if possible. 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.

Environmental precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater, basements or confined areas. 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. Remove residual with warm, soapy water. After cleaning, remove waste container and keep in a well ventilated area. Properly dispose of the waste material in accordance with existing federal, state and local regulations.

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: Prevent formation of aerosols. Use adequate ventilation to keep airborne levels below the exposure limits. Do not breathe vapors and mists. Wear respiratory protection. 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. For professional use only. Keep out of children's reach.

Conditions for safe storage, including any incompatibilities: 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.

Storage stability: Stable under normal conditions.

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: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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 with side shield protection 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:

Impervious gloves (nitrile butyl rubber, neoprene or PVC) should be worn when working with this product for prolonged amount of time. Body should be covered with appropriate clothing (apron, arm covers or full body suit).

Respiratory protection:

Use local or general ventilation to control exposures below applicable exposure limits. When ventilation is inadequate, respirators should be selected based on NIOSH or OSHA's respirator standard (29 CFR 1910.134).

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

Appearance:	Liquid
Odor:	Characteristic
Odor threshold:	Not available
pH:	~6.5 at 20°C (68°F)
Melting point/ freezing point:	Not available
Initial boiling point and boiling range:	Not available
Flash point:	> 93°C (>200°F)
Evaporation rate:	Not available
Flammability (solid, gas):	Not applicable
Upper/ lower flammability or explosive limits:	Not available; Product does not present an explosion hazard.
Vapor pressure:	Not available
Vapor density:	Not available
Relative density:	1.10 at 20°C (68°F)
Solubility (water):	Not miscible or difficult to mix
Partition coefficient n-octanol/water:	Not available
Auto-ignition temperature:	Product is not selfigniting
Decomposition temperature:	Not available
Viscosity:	Not available

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: Not known.

Chemical stability: Stable under normal conditions.

Conditions to avoid: Not known.

Incompatible materials: Not known.

Hazardous decomposition products: carbon oxides and other toxic fumes.

SECTION 11 – TOXICOLOGICAL INFORMATION

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

Symptoms of exposure:

Acute toxicity:

Oral: No data available.

Dermal: No data available.

Inhalation: No irritating effect expected.

Skin corrosion / irritation: No irritating effect expected.

Serious eye damage / eye irritation: No irritating effect expected.

Specific target organ toxicity, single exposure: No data available.

Aspiration hazard: Not an aspiration hazard.

Chronic toxicity:

Respiratory and Skin Sensitizer:

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

- 5-chloro-2-methyl-2H-isothiazol-3-one, CAS no.: 26172-55-4: skin sensitizer.

Germ cell mutagenicity: No data available.

Carcinogenicity: No data available.

Reproductive toxicity: No data available.

Specific target organ toxicity, repeated exposure: No data available.

Medical conditions aggravated by overexposure: No data available.

Toxicity test results: Not available for mixture. Available data:

Components	Test Results
5-chloro-2-methyl-2H-isothiazol-3-one, CAS no.: 26172-55-4	<u>No data available</u> Danger! This substance is fatal if swallowed, is fatal in contact with skin, is fatal if inhaled, causes severe skin burns and eye damage, causes serious eye damage, may cause an allergic skin reaction and may cause respiratory irritation.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: Not known.

Persistence and degradability: Not known.

Bioaccumulative potential: Not known.

Mobility in soil: Not known.

Other adverse effects: Not known.

Ecotoxicity test results: Not available for the mixture. Available data:

Components	Test Results
5-chloro-2-methyl-2H-isothiazol-3-one, CAS no.: 26172-55-4:	Very toxic to aquatic life with long lasting effects.

SECTION 13 – DISPOSAL CONSIDERATIONS

Product Disposal: The generation of waste should be avoided or minimized wherever possible. To the best of our knowledge, this product does not meet criteria of hazardous waste as defined in 40 CFR 261, Subpart C and D. Do not discharge into sewer system. Solidify and dispose of in an approved landfill. Consult state, local or provincial authorities for more restrictive requirements.

Container disposal: Even after emptying, container may retain residues. Containers should be completely emptied and safely stored until appropriately reconditioned or disposed.

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):

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 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 subject to the reporting.

NFPA rating: Health: 1 Fire: 1 Reactivity: 0 Special: 0

HMIS rating: Health: 1* Flammability: 1 Physical hazard: 0

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.

Right to Know Ingredients Disclosure:

- Sodium gluconate, CAS #: 527-07-1
- Sucrose, CAS #: 57-50-1

International Regulations/Inventories:

Canadian Regulations: All ingredients of this product are listed or are exempt from the DSL.

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
PACs / PAH	Polycyclic Aromatic Compounds / Polycyclic Aromatic Hydrocarbon Content
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
DSL	Domestic Substance List
WHMIS	Workplace Hazardous Materials Information System

Latest revision date: March 23, 2016 – Preparation of SDS in accordance to the GHS requirements

Date of the previous revision: September 27, 2011

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.