

**PRODUCT NAME(S): MRB Primer**

**SECTION 1 – IDENTIFICATION**

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

**Product name:** MRB Primer  
**Recommended use:** Concrete Densifier

**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 07

**Classification of the substance or mixture:**

Hazard Class	Category	Hazard Statement Codes	Hazard Statements
Acute Toxicity, Oral	5	H303	May be harmful if swallowed
Skin corrosion / Irritation	2	H315	Causes skin irritation
Serious eye damage / Eye irritation	2A	H319	Causes serious eye irritation
Specific target organ toxicity, single exposure	3	H335	May cause respiratory irritation

**Precautionary Statements:**

<b>Prevention:</b>	P261 P271 P280 P264	Avoid breathing mist, vapors, spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/ protective clothing / eye protection/ face protection. Wash exposed area with plenty of water and soap thoroughly after handling.
<b>Response:</b>	P302 + P352 P362 P332 + P313 P305 + P351 + P338  P304 + P340 P312	IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/ attention. 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. Call a POISON CENTER or physician if you feel unwell.
<b>Storage:</b>	P403 + P233 P405	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
<b>Disposal:</b>	P501	Dispose of contents/container to hazardous or special waste collection point in accordance with local/regional/national/international regulations.

**Hazards not otherwise classified:** May be corrosive to metals. See Section 11.

**SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS**

Components	CAS #	EC #	Concentration, %
Modified colloidal silicate base	Trade Secret	Trade Secret	35

**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 for at least 15 minutes. Remove contaminated clothing and shoes and wash them before reuse. If skin irritation occurs: Get medical advice/ attention.

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- Eye:** Rinse immediately 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.
- 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). 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. Contact physician if you feel unwell.

**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:** None known.

**Specific hazards arising from the chemical:** Not combustible. 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: Silica oxides.

**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. Fight fire from protected location or safe distance. 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. 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:** Do not flush away with water. 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 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. Approach release from upwind. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. 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:** Use adequate ventilation to keep airborne levels below the exposure limits. Do not breathe vapors and mists; avoid contact with skin and eyes. Wear appropriate respiratory, 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. Normal temperature and pressures do not affect the material. Requirements to be met by storerooms and receptacles: Protect from freezing. If frozen, product needs to be tested before using for emulsion stability.

**Storage stability:** Stable under normal conditions.  
**Storage temperature:** 50 - 86°F (10 - 30°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.

**Appropriate engineering controls:** Minimize the release of fumes or vapors. Good local and general ventilation should be sufficient to control worker exposure to airborne contaminants below recommended exposure limits.

**Personal protective equipment:**

**Eye/face protection:**

Wear safety glasses with side shields 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 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. 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>	Clear to slightly opalescent liquid
<b>Odor:</b>	Odorless
<b>Odor threshold:</b>	Not available
<b>pH:</b>	11.35 +/-0.15 (10% in water)
<b>Melting point/ freezing point:</b>	0°C (32°F)
<b>Initial boiling point and boiling range:</b>	>100°C (212°F)
<b>Flash point:</b>	Not flammable
<b>Evaporation rate:</b>	Not available
<b>Flammability (solid, gas):</b>	Not applicable
<b>Upper/ lower flammability or explosive limits:</b>	Not available
<b>Vapor pressure:</b>	Not available
<b>Vapor density:</b>	Not available
<b>Relative density:</b>	1.02-1.06
<b>Solubility (water):</b>	Dilutable
<b>Partition coefficient n-octanol/water:</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not available
<b>Viscosity:</b>	~10 cps

### 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.

**Conditions to avoid:** None known.

**Incompatible materials:** Strong oxidizers; acids, alkalis.

**Hazardous decomposition products:** Silica oxides.

**SECTION 11 – TOXICOLOGICAL INFORMATION**

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

**Symptoms of exposure:**

**Acute toxicity:**

**Oral:** May be harmful if swallowed. Adverse symptoms may include abdominal pain, nausea and diarrhea.

**Dermal:** No data available.

**Inhalation:** No data available.

**Skin corrosion / irritation:**

Causes skin irritation. 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.

**Aspiration hazard:**

Not classified, however, due to low viscosity, it may be harmful if swallowed and enters airways.

**Chronic toxicity:**

**Respiratory and Skin Sensitizer:**

Not expected.

**Germ cell mutagenicity:**

No data available.

**Carcinogenicity:**

This product does not contain component(s) known or reported to be carcinogenic by IARC, NTP, OSHA and ACGIH.

**Reproductive toxicity:**

No data available.

**Specific target organ toxicity, repeated exposure:**

No data available.

**Medical conditions aggravated by overexposure:**

Skin, eyes and respiratory disorders if product is handled without adequate protection.

**Toxicity test results:** Testing has not been conducted on product.

**SECTION 12 – ECOLOGICAL INFORMATION**

**Ecotoxicity:** Not known. Large or frequent spills may have a harmful or damaging effect on the environment. Do not allow product to reach ground water, water course or sewage system.

**Persistence and degradability:** Not known.

**Bioaccumulative potential:** Not known.

**Mobility in soil:** Not known.

**Other adverse effects:** Not known.

**Ecotoxicity test results:** Testing has not been conducted on product.

**SECTION 13 – DISPOSAL CONSIDERATIONS**

**Product Disposal:** The generation of waste should be avoided or minimized wherever possible. If product becomes a waste, it may 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

**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: Not known.

**Clean Water Act:**

- Section 307(a) (Toxic pollutants): Not known.
- Section 311(b)(2): Table 116.4A (Hazardous chemicals) / Table 117.3 (RQ): Not known.

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

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

**State Regulations:**

California Prop. 65 Components:

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

**International Regulations/Inventories:**

Canada: This material or one or more of its components is not listed on the Canadian Domestic Substances List.

**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
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:** February 2016 – Correct pictograms

**Date of the previous revision:** April 4, 2016

**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.