

SAFETY DATA SHEET

Date Issued : 02/05/2015
 SDS No. : RB Mineral Out
 Date Revised : 05/14/2019
 Revision No : 6

Robelle Industries - Mineral Out

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Robelle Industries - Mineral Out
GENERAL USE: Metal Control for swimming pools.
ACTIVE INGREDIENT(S): 1-Hydroxy Ethylidene-1, 1-Diphosphonic Acid (HEDP)

DISTRIBUTOR

Robelle Industries, Inc.
 (781) 297-7422
 60 Campanelli Dr
 Braintree, MA 02184

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

Skin Corrosion/Skin Irritation, Category 1
 Eye Damage, Category 1
 Corrosive to Metals, Category 1

GHS LABEL



Corrosion

SIGNAL WORD: DANGER

HAZARD STATEMENTS

H290: May be corrosive to metals.
 H314: Causes severe skin burns and eye damage.
 H318: Causes serious eye damage.

PRECAUTIONARY STATEMENT(S)

General:

P234: Keep only in original packaging.
 P260: Do not breathe dust/fume/gas/mist/vapours/spray.
 P264: Wash ... thoroughly after handling.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P501: Dispose of contents/container to ...

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: Causes eye, skin and digestive tract burns. Mist may cause respiratory tract burns.

POTENTIAL HEALTH EFFECTS

EYES: Corrosive. Causes eye burns and permanent tissue damage.
SKIN: Corrosive. May cause skin burns and permanent skin damage.
INGESTION: Low order of toxicity. Corrosive to mouth, esophagus and stomach.
INHALATION: Mist may be severely irritating to nose, throat and lungs, depending on concentration and duration of exposure.

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CARCINOGENICITY: Not listed by NTP, IARC or OSHA.

COMMENTS:

TRANSPORT INFORMATION:

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Corrosive Liquid, Acidic, Organic, N.O.S. (Phosphonic acid)

PRIMARY HAZARD CLASS/DIVISION: 8

UN/NA NUMBER: UN3265

PACKING GROUP: II

REPORTABLE QUANTITY (RIQ) UNDER CERCLA: None

OTHER SHIPPING INFORMATION: DOT exception 173.154 - this product qualifies as Limited Quantity when inner packaging does not exceed 0.3 gallons.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
1-Hydroxy Ethylidene-1, 1-Diphosphonic Acid (HEDP)	30 - 50	2809-21-4
Phosphonic Acid	< 0 - 2	13598-36-2

COMMENTS: Proprietary blend. Ingredients in this section have been determined to be hazardous as defined by 29CFR 1910.1200.

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

SKIN: Immediately wash with large amounts of water; use soap, if available. Remove contaminated clothing, including shoes, after washing has begun. Get immediate medical attention.

INGESTION: DO NOT induce vomiting. If individual is conscious, give milk or water to dilute stomach contents. Keep warm and quiet. Get prompt medical attention. DO not attempt to give anything by mouth to an unconscious person.

INHALATION: In case of adverse exposure to vapors and/or aerosols, immediately remove the affected victim from exposure and get immediate medical attention. If breathing is difficult, give oxygen. If breathing stops, give artificial respiration.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fire.

FIRE FIGHTING PROCEDURES: Material will not burn. Containers can build up pressure if exposed to heat (fire). Use water spray to cool fire-exposed surfaces and to protect personnel.

FIRE FIGHTING EQUIPMENT: Firefighters should wear self-contained breathing apparatus (SCBA) in positive pressure mode, if possible, and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: For spills, implement cleanup procedures.

LARGE SPILL: Implement cleanup procedures and if in public areas, advise authorities.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Prevent additional discharge of material, if possible to do so without hazard. Request all to stay clear. This material is water soluble/dispersible, and may not be recoverable.

LAND SPILL: Prevent additional discharge of material, if possible to do so without hazard. Warn occupants and downwind areas of corrosive release hazard and request all to stay clear.

GENERAL PROCEDURES: Contain spilled liquid with sand or earth. Recover by pumping or with suitable absorbent.

RELEASE NOTES: Recycle or dispose of recovered material in accordance with all federal, state, and local regulations.

7. HANDLING AND STORAGE

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GENERAL PROCEDURES: Keep containers closed. Open container carefully and handle with care. Store in a cool, well-ventilated place away from incompatible materials. Do NOT pressurize, cut, heat or weld containers. Empty product containers may contain product residue. Do not reuse empty containers.

STORAGE: Corrosive to most metals, including carbon steel, aluminum/aluminum alloys and copper /copper alloys.

STORAGE TEMPERATURE: Ambient.

STORAGE PRESSURE: Atmospheric

COMMENTS: When working or handling this product, wash hands and face thoroughly before eating, drinking, using tobacco, applying cosmetics, or using the toilet. Wash exposed skin promptly to remove accidental splashes or contact.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
		EXPOSURE LIMITS		
Chemical Name	Type		ppm	mg/m ³
1-Hydroxy Ethylidene-1, 1-Diphosphonic Acid (HEDP)	OSHA PEL	TWA	ppm ^[1]	mg/m ³ ^[1]
		STEL	ppm	mg/m ³
	ACGIH TLV	TWA	ppm	mg/m ³
		STEL	ppm	mg/m ³
	Supplier OEL	TWA	NL	NL
		STEL	NL	NL

Footnotes:
 1. NL = Not Listed

ENGINEERING CONTROLS: Local exhaust.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Chemical splash goggles and face shield.

SKIN: Where contact may occur, wear chemical resistant gloves and long sleeves.

RESPIRATORY: Where overexposure by inhalation may occur; or other means of exposure reduction are not adequate, approved respirators may be necessary.

WORK HYGIENIC PRACTICES: Provide safety shower and eyewash station in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Faint.

APPEARANCE: Pink liquid.

pH: < 2

FLASHPOINT AND METHOD: > 100°C (212°F)

FLAMMABLE LIMITS: Non-flammable.

AUTOIGNITION TEMPERATURE: Not Applicable

VAPOR PRESSURE: Not Available

VAPOR DENSITY: Not Available

BOILING POINT: Not Available

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SOLUBILITY IN WATER: Soluble in water.

SPECIFIC GRAVITY: 1.139 to 1.147

10. STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION: Will not occur.

STABILITY: Stable.

CONDITIONS TO AVOID: Contact with common metals might produce flammable hydrogen gas.

HAZARDOUS DECOMPOSITION PRODUCTS: Phosphines, CO, CO₂ and oxides of nitrogen.

INCOMPATIBLE MATERIALS: Strong oxidizers and strong alkalis.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

DERMAL LD₅₀: > 2000 mg/kg

ORAL LD₅₀: > 2000 mg/kg

RESPIRATORY OR SKIN SENSITISATION: No sensitizing effects known.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: Low mobility in soil

BIOACCUMULATION/ACCUMULATION: No bioaccumulation is expected.

AQUATIC TOXICITY (ACUTE)

96-HOUR LC₅₀: > 100 mg/L (fish)

48-HOUR EC₅₀: > 100 mg/L (Crustacea)

96-HOUR EC₅₀: > 100 mg/L (Algae)

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose in accordance with all applicable regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Corrosive Liquids, N.O.S. (1-Hydroxy Ethylidene-1, 1-Diphosphonic Acid (HEDP), Phosphonic Acid)

PRIMARY HAZARD CLASS/DIVISION: 8

UN/NA NUMBER: UN 1760

PACKING GROUP: III

REPORTABLE QUANTITY (RQ) UNDER CERCLA: None

MARINE POLLUTANT #1: No.

OTHER SHIPPING INFORMATION: Refer to 49 CFR 173.154 for limited and consumer commodity exceptions.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HEALTH HAZARDS: Hazard Categories: Health: Immediate (Acute) Health Hazard

313 REPORTABLE INGREDIENTS: No reportable chemicals.

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CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: If spilled, this product is not subject to any reporting requirements.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: All components are listed on the TSCA Inventory or are exempt from TSCA Inventory requirements.

RCRA STATUS: When disposed of, this product may be regulated as a RCRA Hazardous Waste with the characteristic of corrosivity due the pH of the neat material.

16. OTHER INFORMATION

Date Revised: 05/14/2019

REVISION SUMMARY: This SDS replaces the 04/25/2019 SDS.

MANUFACTURER DISCLAIMER: Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).