

Section 1 - Chemical Product and Company

Identification

Product/Chemical Name: Calcium Reducer Recreational Water Hardness Removal & Metal Staining Control.

Chemical Formula: Proprietary.

CAS Number: N/A

Other Designations: N/A

General Use: Removal of calcium hardness and heavy metals stain control in recreational waters.

Manufacturer: Phoenix Products Company, 55 Container Drive Terryville, CT. 06786 Tel: (860) 589-7502, Fax: (860) 589-7501 (emergency/informational telephone/fax numbers).

Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt or % vol
The precise composition of Calcium Reducer Recreational Water Hardness Removal & Metal Staining Control is proprietary information. A more complete disclosure will be made to an attending physician in the event of a medical emergency involving this product. When utilized in accordance with Phoenix Products Company instructions, Calcium Reducer is considered to be nontoxic and nonhazardous.		N/A

Trace Impurities: None.

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH
	TWA	STEL	TWA	STEL	TWA	STEL	
Proprietary blend of phosphonic acid derivatives.			N/A	N/A	N/A	N/A	N/A

Section 3 - Hazards Identification

HMIS

H F R

PPE † ‡ Sec. 8

Emergency Overview

A light amber liquid that, in its as-received state, is a severe irritant to sensitive membranes and eyes.

Potential Health Effects

Primary Entry Routes: By ingestion, and eye and skin contact.

Target Organs: Based on animal data, chronic exposure to as-received material may cause blood and bone damage.

Acute Effects

Inhalation: None.

Eye: As-received product may cause severe eye irritation if not washed out immediately.

Skin: Extended contact may cause temporary irritation.

..Ingestion: May cause significant irritation to the digestive tract.

Carcinogenicity: IARC, NTP, and OSHA do not list as a carcinogen.

Medical Conditions Aggravated by Long-Term Exposure: None known.

Chronic Effects: None identified for human exposure.

Section 4 - First Aid Measures

Inhalation: In the improbable event of product mist inhalation, remove the affected individual to fresh air and provide artificial respiration as required. Obtain medical attention if irritation persists.

Eye Contact: Flush thoroughly with water for fifteen minutes and obtain medical attention.

Skin Contact: Wash contacted areas with soap and water and apply emollient skin cream to minimize dryness and irritation.

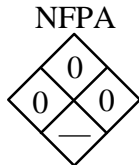
Ingestion: Drink several glasses of milk, milk of magnesia or water. Do not induce vomiting. Obtain medical attention.

After first aid, get appropriate in-plant, paramedic, or community medical support if exposure symptoms persist.

Note to Physicians: Treat eye contact and ingestion as for heavily diluted phosphoric acid exposure.

Special Precautions/Procedures: N/A.

Section 5 - Fire-Fighting Measures



Flash Point: None.

Flash Point Method: N/A

Burning Rate: N/A

Autoignition Temperature: N/A

LEL: N/A

UEL: N/A

Flammability Classification: Nonflammable.

Extinguishing Media: Use chemical-type foam, CO₂, dry chemical or water fog on any fire involving Calcium Reducer.

Unusual Fire or Explosion Hazards: None.

Hazardous Combustion Products: Thermal oxidative decomposition of the product may release oxides of carbon and nitrogen.

Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways.

Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.

Section 6 - Accidental Release Measures

Spill /Leak Procedures: Recover spilled material with absorbents.

Small & Large Spills:

Containment: For all spills, dike the spill to prevent spreading.

Cleanup: Use vacuum or absorbent methods to recover bulk of spilled material for later disposal in accordance with applicable laws and regulations.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 7 - Handling and Storage

Handling Precautions: Avoid contact with eyes and skin during handling; wear appropriate eye and glove protection.

Storage Requirements: Do not store with oxidizing materials, or at temperatures below freezing or above 110°F.

Regulatory Requirements: None established.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Ventilation in use area if necessary.

Ventilation: In the improbable event of product misting, provide general or local exhaust ventilation systems to minimize airborne concentrations. Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Administrative Controls:

Respiratory Protection: If product misting occurs, follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. . If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Protective Clothing/Equipment: Wear chemically protective gloves to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove material from your shoes and clean personal protective equipment after use.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. **KEEP OUT OF REACH OF CHILDREN!**

Section 9 - Physical and Chemical Properties

Physical State: Liquid. **Appearance and Odor:** Clear light amber with a faint odor. **Odor Threshold:** N/A **Vapor Pressure:** N/A **Vapor Density (Air=1):** N/A **Formula Weight:** N/A **Density:** 10.1 lbs./gallon, typical. **Specific Gravity (H₂O=1, at 4 °C):** 1.21 typical. **PH, 1% Sol.:** ~1.7-2.0

Section 10 - Stability and Reactivity

Stability: Calcium Reducer is stable at room temperature under normal storage and handling conditions.

Polymerization: Polymerization cannot occur.

Chemical Incompatibilities: Avoid direct contact of as-received product with oxidizing and alkaline materials.

Conditions to Avoid: Temperatures above 120°F.

Hazardous Decomposition Products: Thermal oxidative decomposition of Calcium Reducer can produce oxides of carbon and phosphorus.

Section 11- Toxicological Information

Toxicity Data:

Eye Effects: Severe irritant. **Skin Effects:** May cause irritation with prolonged contact.

Teratogenicity: Not established.

Section 12 - Ecological Information

Ecotoxicity: Calcium Reducer may cause adverse environmental impact if as-received material reaches waterways in appreciable quantities.

Acute Ecotoxicity: 96 hours, LC50 (Trout): >360 mg/L.
48 hours, EC50 (Daphnia): 5,270 mg/L.
72 hours, IC50 (Algae): 100 mg/L.

Environmental Fate: N/A

Environmental Transport: Water.

Environmental Degradation: N/A

Absorption/Mobility: Air: N/A Water: Considerable solubility and mobility. Soil/percolation: N/A

Section 13 - Disposal Considerations

Disposal: Contact Phoenix Products Company or your local supplier or a licensed contractor for detailed recommendations. Recovered spilled product may be disposed of by either landfill or incineration. Follow applicable Federal, state, and local regulations.

Disposal Regulatory Requirements: None.

Container Cleaning and Disposal: Thoroughly clean empty containers with water and recycle. Do not use empty containers for food storage.

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101):

Shipping Name: Cleaning Compound NOI. **Shipping Symbols:** None. **Hazard Class:** Nonhazardous. **ID No.:** None. **Packing Group:** N/A **Label:** None. **Special Provisions (172.102):** None.

Stowage: None. **b) Other:** N/A

Section 15 - Regulatory Information

EPA Regulations:

RCRA Hazardous Waste Number: Not listed (40 CFR 261.33)

RCRA Hazardous Waste Classification (40 CFR 261): Not classified

CERCLA Hazardous Substance (40 CFR 302.4) unlisted specific per RCRA, Sec. 3001; CWA, Sec. 311 (b)(4); CWA, Sec. 307(a), CAA, Sec. 112

CERCLA Reportable Quantity (RQ): 5,000 lbs.

SARA 311/312 Codes: Hazard Category: Immediate health hazard.

SARA Toxic Chemical (40 CFR 372.65): Extremely hazardous substance: No.

SARA EHS (Extremely Hazardous Substance) (40 CFR 355): No. Threshold Planning Quantity (TPQ): N/A.

OSHA Regulations:

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Not listed

OSHA Specifically Regulated Substance (29CFR 1910): Not listed.

State Regulations: None established.

Section 16 - Other Information

Prepared By: Phoenix Products Company

Revision Notes: Original, 01/01/99

Additional Hazard Rating Systems: None.

Disclaimer: The information contained herein is furnished without warranty, representation or license of any kind, except that it is accurate to the best knowledge of Phoenix Products Company or obtained from sources believed to be accurate. Phoenix Products Company does not assume any legal responsibility for use of or reliance upon such information. Before using this or any other Phoenix product, read all package labels, product data information and applicable Material Safety Data Sheets.