



SAFETY DATA SHEET
Phosphate Remover - 0659

Product Name: Phosphate Remover
Date: 5/15/2015

SECTION 1 **IDENTIFICATION**

Supplier: Phoenix Products Company
55 Container Drive
Terryville, CT 06786
(860) 589-7502

Distributor:

U.S. PERS Emergency Telephone: 1-800-633-8253

Product Name: **Phosphate Remover**

Synonyms: Not Available

Chemical Name: Rare earth and compatible compounds (PR-10,000 Phosphate Remover) - Patent Pending.

Chemical Formula: Not Available

CAS Number: Not Available

Product Use: Precipitation and removal of phosphates from water.

SECTION 2 **HAZARDS IDENTIFICATION**

EMERGENCY OVERVIEW

OSHA Regulatory Status: This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122). Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

Potential Health Effects

Primary Entry Routes: By ingestion and through eye and skin contact.
Target Organs: None known.

Acute Effects

Inhalation: None.
Eye: Possible mild and temporary irritation.
Skin: Possible mild irritant.
Ingestion: With substantial and/or long term ingestion of the as-received product, possible delayed blood clotting, sensitivity to heat, skin itching, increased odor and taste awareness, and liver damage.

HMIS	
H	1
F	0
R	0
PPE*	
*Sec. 8	

Carcinogenicity: IARC, NTP, and OSHA do not list PR-10,000 Phosphate Remover or its components as carcinogens.

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

Chronic Effects: There are no known chronic effects except as indicated above under Acute Effects.

SECTION 3 **COMPOSITION / INGREDIENTS INFORMATION**

Component	CAS Number	Percent
PR-10,000 Phosphate Remover*	Mixture	10%

*A more complete disclosure will be made to an attending physician in the event of a medical emergency involving this product.



SECTION 4 **FIRST AID MEASURES**

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

Eye Contact: Flush thoroughly with water for five minutes and obtain medical attention if irritation of eye membranes persists.

Skin Contact: Wash contacted areas with soap and water, apply emollient skin cream to minimize dryness and seek medical attention if irritation persists.

Ingestion: Drink several glasses of water. Obtain medical attention.

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

Note to Physicians: Under normal use and human exposure conditions, the product is considered nontoxic and nonhazardous.

Special Precautions/Procedures: None.

SECTION 5 **FIRE-FIGHTING MEASURES**

Flash Point: None.

Flash Point Method: Not Available

Burning Rate: Not Available

Autoignition Temperature: Not Available

LEL: Not Available

UEL: Not Available

Flammability Classification: Nonflammable.

Extinguishing Media: Not Available

Unusual Fire or Explosion Hazards: None.

Hazardous Combustion Products: Thermal oxidative decomposition of the product may release toxic fumes of hydrogen chloride and metal oxide.

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:

Containment: For all spills, pick up mechanically and place in suitable container for disposal. Do not release into sewers or waterways.

Cleanup: After product recovery and removal, flush spill area with water to a sanitary sewer.



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

SECTION 7 **STORAGE AND HANDLING**

Handling Precautions: Wear appropriate eye and glove protection to minimize personal exposure.

Storage Requirements: Do not store with oxidizing materials. Keep containers sealed.

Regulatory Requirements: None established.

SECTION 8 **EXPOSURE CONTROLS / PERSONAL PROTECTION**

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH
	TWA	STEL	TWA	STEL	TWA	STEL	IDLH
PR-10,000 Phosphate Remover	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Engineering Controls:

Ventilation: In the 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 AWAY FROM CHILDREN.**



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SECTION 9 **PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Amber Liquid
Odor:	No discernible odor.
Odor Threshold:	Not available
Vapor Pressure:	Not determined
Vapor Density (Air =1):	>1.0
Formula Weight:	Not available
Density:	11.6 lbs./gallon
Specific Gravity:	1.40
pH:	2.5-3.5
Water Solubility:	Completely soluble.
Other Solubilities:	Not soluble in hydrocarbons.
Boiling Point:	~230°F
Freezing Point:	~20°F (Typical)
Viscosity:	~20 cPs
Refractive Index:	Not available
Surface Tension:	Not available
% Volatile:	Not available
Evaporation Rate:	Not available

SECTION 10 **STABILITY AND REACTIVITY**

Stability: Stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: Hazardous polymerization cannot occur.

Chemical Incompatibilities: Do not store with oxidizers or acidic agents.

Conditions to Avoid: Do not use as-received product with stainless steel storage containers or equipment – chloride corrosion will occur.

Hazardous Decomposition Products: Thermal oxidative decomposition of PR-10,000 Phosphate Remover can produce fumes of hydrogen chloride and lanthanum oxide.

SECTION 11 **TOXICOLOGICAL INFORMATION**

Toxicity Data

Eye Effects: As received, irritation of eye membranes.

Skin Effects: As received, irritating effect.

Ingestion: As received, possible delayed blood clotting, sensitivity to heat, increased taste sensitivity, and liver damage with substantial ingestion.

Acute Inhalation Effects: Human, inhalation, TClO: Not established.

Acute Oral Effects: Slightly toxic by this route; Oral Rat LD 50 = 2.8 g/kg.

Chronic Effects: None known.



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Carcinogenicity: None known.
Mutagenicity: None known.
Teratogenicity: None known.

SECTION 12 **ECOLOGICAL INFORMATION**

Ecotoxicity: This material is not expected to be harmful to fish or aquatic invertebrates. Soluble rare earth salts are known to inhibit algal growth by chelating free phosphate.

Environmental Fate

Environmental Transport: Water or soil.
Environmental Degradation: Not established.
Soil Absorption/Mobility: Not established.

SECTION 13 **DISPOSAL CONSIDERATIONS**

Disposal: This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

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 **TRANSPORTATION INFORMATION**

DOT: Not Regulated
TDG: Not Regulated
MEX: Not Regulated
IMDG: Not Regulated
IATA: Not Regulated

SECTION 15 **REGULATORY INFORMATION**

STATE REGULATIONS:

California: The components in this material are not subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5).

REGULATORY LISTS SEARCHED:

01-1=IARC Group 1 03=EPCRA 313
01-2A=IARC Group 2A 04=CA Proposition 65
01-2B=IARC Group 2B 05=MA RTK
02=NTP Carcinogen 06=NJ RTK
07=PA RTK

No components of this material were found on the regulatory lists above.

INVENTORY STATUS:

AICS (Australia): All components comply with inventory requirements
DSL (Canada): All components comply with inventory requirements
EINECS (European Union): All components comply with inventory requirements



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ENCS (Japan): All components comply with inventory requirements
IECSC (China): All components comply with inventory requirements
KECI (Korea): All components comply with inventory requirements
PICCS (Philippines): All components comply with inventory requirements
TSCA (United States): All components comply with inventory requirements

OTHER REGULATORY INFORMATION:

WHMIS Classification (Canada): D2B – Materials causing other toxic effects (eye irritation and chronic respiratory disease).

SECTION 16 <i>OTHER INFORMATION</i>
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No representations or warranties, either expressed or implied, of merchant ability, fitness for a particular purpose or any other nature are made hereunder with respect to information or the product to which information refers.

Date: 5/15/2015
Phoenix Products Company