

MSDS

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MATRIX

swimming pool



Matrix Phos Eliminator
Concentrate
issue date 3/9/11

SOLUTIONS

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name of this Product : **MATRIX Phos Eliminator Concentrate**

Manufacturer : **Matrix Swimming Pool Solutions**
PO Box 9162
Chandler Heights, AZ 85127
www.MatrixPoolSolutions.com
Phone Number: 480-500-5770

CHEMICAL FORMULA: Proprietary Compounds

PRODUCT DISCRIPTION: Phosphate Reducer

2. COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredient Name

CAS Number

The precise composition of Naturally Blue Phosphate Remover is proprietary information. A more complete disclosure will be made to an attending physician in the event of a medical emergency involving this product.

N/A

When utilized in accordance with Natural Pool Products, Inc. instructions, Naturally Blue Phosphate Remover is considered to be nontoxic and nonhazardous.

Trace Impurities: <0.02%

INGREDIENT	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH
	TWA	STEL	TWA	STEL	TWA	STEL	IDLH
Proprietary	N/A	N/A	N/A	N/A	N/A	N/A	N/A

3. HAZARDOUS IDENTIFICATION

Emergency Overview

Potential Health Effects

Primary Entry Routes: By ingestion and through 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.

Carcinogenicity: IARC, NTP, and OSHA do not list Naturally Blue Phosphate Remover as a carcinogen.

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

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

4. FIRST AID

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.

Eye Contact: Flush thoroughly with water for 5 minutes. Obtain medical attention if irritation of eye membranes occurs.

Skin Contact: Wash contacted areas with soap and water.

Ingestion: Drink several glasses of water. Obtain medical attention if gastrointestinal irritation occurs.

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.



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5. FIRE FIGHTING MEASURES

Flash Point: None

Burning Rate: N/A

LEL: N/A

Flammability Classification: N/A

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.

Flash Point Method: N/A

Autoignition Temperature: N/A

UEL: N/A

Extinguishing Media: N/A

6. ACCIDENTAL RELEASE MEASURES

Spill /Leak Procedures:

Small & Large Spills:

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.

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

7. HANDLING AND STORAGE

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

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

Regulatory Requirements: None established

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Engineering Controls:

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. As with all chemical substances, please use caution and keep away from children.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid.

Appearance and Odor: Clear, colorless with no discernable odor

Odor Threshold: N/A

Vapor Pressure: Not determined.

Vapor Density (Air=1): N/A.

Formula Weight: Proprietary

Density: 9.50 lbs./gallon, typical.

Specific Gravity (H₂O=1, at 4 °C): 1.12

pH: 3.5-4.0

Water Solubility: Completely soluble

Other Solubilities: Not soluble in hydrocarbons

Boiling Point: 230°F (Typical).

Freezing Point: ~20°F (Typical).

Viscosity: ~20 cPs

Refractive Index: N/A

Surface Tension: N/A

% Volatile: N/A

Evaporation Rate: N/A

10. STABILITY AND REACTIVITY

Stability: Matrix Phos Eliminator Concentrate is 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 can produce fumes of hydrogen chloride and lanthanum oxide

11. TOXICOLOGICAL INFORMATION

Toxicity Data:

Eye Effects: As received, irritation of eye membranes

Skin Effects: As received, irritating effect

Ingestion Effects: 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 Toxicity: Rat, oral, LD50: 4200 kg (as 100% LaCl₃)

Chronic Effects: None known

Carcinogenicity: None known

Mutagenicity: None known

Terratogenicity: None known

12. ECOLOGICAL INFORMATION

Ecotoxicity: Specific data not established.

Environmental Fate

Environmental Transport: Water or soil

Environmental Degradation: Not established

Soil Absorption/Mobility: Not established

13. DISPOSAL CONSIDERATIONS

Disposal: Contact Matrix Swimming Pool Solutions, 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.



14. TRANSPORTATION INFORMATION

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

Packaging Authorizations
a) **Exceptions:** N/A
b) **Non-bulk Packaging:** N/A
c) **Bulk Packaging:** N/A

Quantity Limitations
a) **Passenger, Aircraft, or Railcar:** None.
b) **Cargo Aircraft Only:** None.

Vessel Stowage Requirements
a) **Vessel Stowage:** None.
b) **Other:** N/A

15. REGULATION 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): None.
SARA 311/312 Codes: None.
SARA Toxic Chemical (40 CFR 372.65): Not listed
SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed, Threshold Planning Quantity (TPQ)

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.

16. OTHER INFORMATION

This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.

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