



MATERIAL SAFETY DATA SHEET

I - PRODUCT IDENTIFICATION

Product: O-ACE-sis® Phosphate Remover
Chemical Family:
Formula: $\text{LaCl}_2 \cdot 7\text{H}_2\text{O}$; H_2O
CAS Number: 10025-84-0
Synonyms: Lanthanum chloride solution,

COMPANY IDENTIFICATION

AllChem Performance Products
6010 NW First Place
Gainesville, FL 32607
Tel: 352-378-9696

DISTRIBUTED BY

Water Techniques, Inc.
157 Pickett's Way
Acworth, GA 30101
Tel: 770-966-0250

II – COMPOSITION, INFORMATION ON INGREDIENTS

<u>Chemical or Common Name:</u>	<u>OSHA PEL:</u>	<u>ACGIH TLV:</u>
Lanthanum chloride heptahydrate (20211-76-1)	N/A	N/A
Water(7732-18-5)	N/A	N/A

Trace impurities <<0.001%

No hazardous components present

III – HAZARDS IDENTIFICATION

Emergency Overview: Temporary, severe eye irritation

Primary Route(s) of Entry:

Ingestion: (X)
Inhalation: ()
Skin Contact: (X)
Eye Contact: (X)

Target organs: None known

Primary Health Hazards:

Acute:

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Inhalation: None

Eye: Possible mild and temporary irritation

Skin: Possible mild irritant

Ingestion: With substantial ingestion of the neat solution, possible delayed blood clotting, sensitivity to heat, skin itching, increased odor and taste awareness and liver damage.

Chronic: No known chronic effects except as indicated above under acute effects

Carcinogenicity Listings: None Known

OSHA: 0

NTP: 0

IARC: 0

Medical Conditions Aggravated By Exposure: None known

IV – FIRST AID MEASURES

Emergency and First Aid Procedures:

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

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.

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

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

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

Note to physicians: Under normal use and human exposure conditions, the product is considered non toxic and non- hazardous.

Special precautions/procedures: None

V – FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARD DATA

Flash Point : None

Flash point method: N/A

Flammable Limits:

LEL: N/A

UEL: N/A

Burning rate: N/A

Auto ignition temperature: N/A

Flammability classification: Nonflammable

Extinguishing Media: N/A

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

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Special Fire-fighting Procedures: Do not release runoff from fire control methods to sewers or waterways.

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

Unusual Fire and Explosion Hazards: None

VI – 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)

VII – HANDLING AND STORAGE

Precautions to Be Taken in Handling:

Wear appropriate eye and glove protection to minimize personal exposure.

Storage:

Do not store with oxidizing materials. Keep containers sealed.

Regulatory requirements: None established.

VIII – EXPOSURE CONTROLS / PERSONAL PROTECTION

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.

Engineering controls:

Ventilation:

In the event of product misting, provide general or local exhaust ventilation systems to minimize airborne concentrations.

Local Exhaust: Local ventilation preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Mechanical Exhaust: None

Protective Clothing or Equipment: Wear chemically protective gloves to prevent prolonged or repeated skin contact. Wear protective glasses 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

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worn instead of or in conjunction with contact lenses.

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

IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: ~ 212°F

Vapor Pressure (mm Hg): Not determined

Vapor Density (Air=1): >1.0

Solubility in Water: Completely soluble

Other solubilities: Very soluble in alcohol, not soluble in hydrocarbons

Appearance and odor: Clear colorless liquid with no discernable odor.

Odor threshold: N/A

Formula weight: N/A

Density: 10.76 lbs/gallon

Specific gravity(H₂O=1 at 4°C): 1.29

Freezing Point: ~ 30°F(Typical)

Viscosity: N/A

Evaporation Rate : N/A

Percent volatile:N/A

Refractive index: N/A

Surface tension: N/A

pH: 5.0-5.5

X – STABILITY AND REACTIVITY

Stability: Unstable Stable

Stable at room temperature under normal storage and handling conditions

Incompatibility: Do not store with oxidizers or acidic agents.

Hazardous Decomposition or By-Products: Thermal oxidative decomposition of the product can produce fumes of hydrogen chloride and metal oxide.

Hazardous Polymerization: May Occur Will Not Occur

Conditions to Avoid: N/A

XI - TOXICOLOGICAL INFORMATION

Eye: As received, irritation of eye membranes.

Skin: As received, irritating effect.

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

Acute Toxicity:

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Acute inhalation effects:

Human, inhalation, TC_{L0}: Not established.

Acute oral effects:

Rat, oral, LD₅₀: 4200 kg (as 100% LaCl₂)

Chronic effects: None known

Carcinogenicity: None known

Mutagenicity: None known

Teratogenicity: None known

XII – ECOLOGICAL INFORMATION

Ecotoxicity: Specific data not established.

Environmental fate: N/A

Environmental transport: Water or soil.

Environmental degradation: Not established.

Soil Absorption/Mobility: Not established.

ENVIRONMENTAL HAZARDS (PR Notice 93-10)

This product is toxic to fish and aquatic organisms. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water board or Regional Office of the EPA.

XIII – DISPOSAL CONSIDERATIONS

Disposal Method: Contact the manufacturer, 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.

XIV - TRANSPORTATION DATA

U.S. Department of Transportation - 49 CFR

Not regulated

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Proper Shipping Name: Chemicals, NOS(non- regulated)
Hazard Class/Division Number: Non hazardous
ID Number:None
Packing Group:N/A
Label Required:None
Placard Required:
Marine Pollutant:
Emergency Telephone Number: Chemtrec 800-424-9300

International Maritime Organization - IMDG
Not regulated

Proper Shipping Name:
Hazard Class/Division Number:
ID Number:
Packing Group:
Label Required:
Placard Required:
Marine Pollutant:
Emergency Telephone Number: Chemtrec 202-483-7616 [call collect]

XV - 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): None
SARA 311/312 codes: None
SARA Toxic Chemical (40 CFR 372.65): Not listed
SARA EHS (Extremely hazardous substance) (40 CFR 35): Not listed. 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

XVI - ADDITIONAL INFORMATION

ALWAYS COMPLY WITH ALL APPLICABLE INTERNATIONAL, FEDERAL, STATE AND LOCAL REGULATIONS REGARDING THE TRANSPORTATION, STORAGE, USE AND DISPOSAL OF THIS CHEMICAL.

Due to the changing nature of regulatory requirements, the REGULATORY

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INFORMATION listed in Section XV of this document should NOT be considered all-inclusive or authoritative. International, Federal, State and Local regulations should be consulted to determine compliance with all required reporting requirements.

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