

SAFETY DATA SHEET

25-Mar-2021

1. IDENTIFICATION

Product identifier

Product Name Pro Series PhosREMOVE

Other means of identification

Product Code 20500PRO

UN/ID no. UN3264

Recommended use of the chemical and restrictions on use

Recommended Use Pool Water Treatment.

Uses advised against Do not mix with other chemicals

Details of the supplier of the safety data sheet

Supplier Address

Bio-Lab, Inc.

P.O. Box 300002

Lawrenceville, GA 30049-1002

Telephone 800-859-7946

Emergency telephone number

Emergency Telephone Chemtrec (Transportation) 1-800-424-9300, 703-527-3887

Poison Control Center (Medical) : (877) 800-5553

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| | |
|--|---------------------------|
| Acute toxicity - Oral | Category 4 |
| Skin corrosion/irritation | Category 1 Sub-category C |
| Serious eye damage/eye irritation | Category 1 |
| Skin sensitization | Category 1 |
| Specific target organ toxicity (single exposure) | Category 3 |

Label elements

Emergency Overview

Danger

Hazard statements

Harmful if swallowed

Causes severe skin burns and eye damage

May cause respiratory irritation



| | | |
|------------------------|------------------------------|--------------------------------------|
| Color colorless | Physical state Liquid | Odor No information available |
|------------------------|------------------------------|--------------------------------------|

Precautionary Statements - Prevention

Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing should not be allowed out of the workplace. Use only outdoors or in a well-ventilated area. Do not breathe mist or vapor.

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting

Precautionary Statements - Storage

Keep out of reach of children. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Store in original plastic container.

Precautionary Statements - Disposal

Dispose of contents/containers in accordance with local regulations

Hazards not otherwise classified (HNOC)

None known

Other Information

25.58% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

| Chemical Name | CAS No. | Weight-% |
|--|------------|----------|
| Lanthanum chloride | 10099-58-8 | 7 - 13* |
| Zinc chloride | 7646-85-7 | 7 - 13* |
| dialuminium chloride pentahydroxide (Solution) | 12042-91-0 | 5 - 10* |

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

Description of first aid measures

| | |
|---------------------|---|
| Eye contact | Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Immediate medical attention is required. |
| Skin contact | Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Wash contaminated clothing before reuse. Call a poison control center or doctor for treatment advice. |
| Inhalation | Move victim to fresh air. Artificial respiration and/or oxygen may be necessary. If symptoms persist, call a physician. |
| Ingestion | Do NOT induce vomiting. Rinse mouth. Have person sip a glass of water if able to swallow. |

Never give anything by mouth to an unconscious person. Call a physician.

Self-protection of the first aider Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms Eye contact: corneal burns may occur. May cause permanent damage.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Dry chemical. Carbon dioxide (CO₂). Water spray (fog). Foam.

Unsuitable extinguishing media High volume water jet.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous combustion products Hydrogen chloride. Oxides of sulfur. Oxides of aluminum.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Avoid inhalation of the product. Ensure adequate ventilation, especially in confined areas. Keep people away from and upwind of spill/leak.

Environmental precautions

Environmental precautions Do not flush into surface water or sanitary sewer system. Prevent product from entering drains. See Section 12 for additional ecological information. Avoid release to the environment.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. After cleaning, flush away traces with water. Prevent product from entering drains. Dispose of contents/containers in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas. Use with local exhaust ventilation. Do not breathe dust/fume/gas/mist/vapors/spray. In case of insufficient ventilation, wear suitable respiratory

equipment. Handle in accordance with good industrial hygiene and safety practice. When using do not eat, drink or smoke.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

Incompatible materials Strong oxidizing agents. Caustics. Reducing agents. Do not mix with other swimming pool/spa chemicals in their concentrated forms.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|--|---|--|--|
| Zinc chloride 7646-85-7 | STEL: 2 mg/m ³ fume TWA: 1 mg/m ³ fume | TWA: 1 mg/m ³ fume (vacated) TWA: 1 mg/m ³ fume (vacated) STEL: 2 mg/m ³ fume | IDLH: 50 mg/m ³ fume TWA: 1 mg/m ³ fume STEL: 2 mg/m ³ fume |
| dialuminium chloride pentahydroxide (Solution) 12042-91-0 | TWA: 1 mg/m ³ respirable particulate matter | - | - |

NIOSH IDLH *Immediately Dangerous to Life or Health*

Appropriate engineering controls

Engineering Controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Tight sealing safety goggles. Face protection shield.

Skin and body protection Wear protective gloves and protective clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|-----------------------|-----------|-----------------------|--------------------------|
| Physical state | Liquid | Odor | No information available |
| Appearance | Clear | Odor threshold | No information available |
| Color | colorless | | |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|--------------------------------|--------------------------|-------------------------|
| pH | 2.9 - 3.9 | |
| Melting point / freezing point | No information available | |
| Boiling point / boiling range | No information available | |
| Flash point | No information available | |
| Evaporation rate | No information available | |

| | | |
|-------------------------------------|--------------------------|--------|
| Flammability (solid, gas) | No information available | |
| Flammability Limit in Air | | |
| Upper flammability limit: | No information available | |
| Lower flammability limit: | No information available | |
| Vapor pressure | No information available | |
| Vapor density | No information available | |
| Specific Gravity | 1.2 - 1.3 | |
| Water solubility | Miscible in water | |
| Solubility in other solvents | No information available | |
| Partition coefficient | No information available | |
| Autoignition temperature | No information available | |
| Decomposition temperature | No information available | |
| Kinematic viscosity | No information available | |
| Dynamic viscosity | No information available | |
| Density | 9.7 - 10.5 | lb/gal |
| Bulk density | No information available | |
| Explosive properties | Not an explosive | |
| Oxidizing properties | Not oxidizing. | |

Other Information

| | |
|-------------------------|--------------------------|
| Softening point | No information available |
| Molecular weight | No information available |
| VOC Content (%) | No information available |

10. STABILITY AND REACTIVITY

Reactivity Reacts vigorously with alkaline material.

Chemical stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Conditions to avoid
Extremes of temperature and direct sunlight.

Incompatible materials
Strong oxidizing agents. Caustics. Reducing agents. Do not mix with other swimming pool/spa chemicals in their concentrated forms.

Hazardous Decomposition Products
Under fire conditions only.: Hydrogen chloride. Sulphur oxides. Oxides of aluminum.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

| | |
|---------------------|---|
| Inhalation | Prolonged inhalation may be harmful. May cause irritation of respiratory tract. |
| Eye contact | Causes serious eye damage. |
| Skin contact | Causes severe skin burns. May cause an allergic skin reaction. May cause sensitization by skin contact. |
| Ingestion | Harmful if swallowed. Causes digestive tract burns. |

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|----------------------------------|--|-------------|--|
| Lanthanum chloride 10099-58-8 | = 2370 mg/kg (Rat) = 4184 mg/kg (Rat) | - | - |
| Zinc chloride | = 1100 mg/kg (Rat) | - | <= 1975 mg/m ³ (Rat) 10 min |

| | | | |
|--|----------------------|----------------------|---|
| 7646-85-7 | | | |
| dialuminium chloride pentahydroxide (Solution) 12042-91-0 | = 9187 mg/kg (Rat) | > 2000 mg/kg (Rat) | - |

Information on toxicological effects

Symptoms Severe eye irritation. Skin irritation. May cause an allergic skin reaction.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

| | |
|--|--|
| Skin corrosion/irritation | Causes severe burns. |
| Serious eye damage/eye irritation | Cause eye burns. |
| Sensitization | May cause sensitization in susceptible persons. |
| Germ cell mutagenicity | No information available. |
| Carcinogenicity | This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP. |
| Reproductive toxicity | No information available. |
| STOT - single exposure | Respiratory system. |
| STOT - repeated exposure | No information available. |
| Chronic toxicity | Avoid repeated exposure. Prolonged inhalation may be harmful. |
| Target Organ Effects | Eyes, Respiratory system, Skin. |
| Aspiration hazard | No information available. |

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

| | |
|--------------------------------------|-------------|
| ATEmix (oral) | 4469 mg/kg |
| ATEmix (dermal) | 26835 mg/kg |
| ATEmix (inhalation-dust/mist) | 0.7 mg/l |

12. ECOLOGICAL INFORMATION

Yes.

Ecotoxicity

Toxic to aquatic life with long lasting effects

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

| Chemical Name | Algae/aquatic plants | Fish | Crustacea |
|--|----------------------|---|-----------|
| dialuminium chloride pentahydroxide (Solution) 12042-91-0 | - | 100 - 500: 96 h Brachydanio rerio mg/L LC50 static | - |

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS**Waste treatment methods**

| | |
|-------------------------------|---|
| Disposal of wastes | Disposal should be in accordance with applicable regional, national and local laws and regulations. |
| Contaminated packaging | Do not reuse container. Refer to all federal, state and local regulations prior to disposal of container and unused contents by reuse, recycle or disposal. |

This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical Name | California Hazardous Waste Status |
|----------------------------|-----------------------------------|
| Zinc chloride 7646-85-7 | Toxic Corrosive |

14. TRANSPORT INFORMATION

Note: Limited quantity (LQ) exception is possible.

DOT

| | |
|-----------------------------|---|
| UN/ID no. | UN3264 |
| Proper shipping name | Corrosive liquid, acidic, inorganic, n.o.s. (Zinc chloride) |
| Hazard Class | 8 |
| Packing Group | III |
| Marine pollutant | Yes. |

TDG

| | |
|-----------------------------|---|
| UN/ID no. | UN3264 |
| Proper shipping name | Corrosive liquid, acidic, inorganic, n.o.s. (Zinc chloride) |
| Hazard Class | 8 |
| Packing Group | III |
| Marine pollutant | Yes. |

IATA

| | |
|-----------------------------|---|
| UN/ID no. | UN3264 |
| Proper shipping name | Corrosive liquid, acidic, inorganic, n.o.s. (Zinc chloride) |
| Hazard Class | 8 |
| Packing Group | III |

IMDG

| | |
|-----------------------------|---|
| UN/ID no. | UN3264 |
| Proper shipping name | Corrosive liquid, acidic, inorganic, n.o.s. (Zinc chloride) |
| Hazard Class | 8 |
| Packing Group | III |
| EmS-No. | F-A, S-B |
| Marine pollutant | Yes |

15. REGULATORY INFORMATION

International Inventories

| | |
|-----------------|----------|
| TSCA | Complies |
| DSL/NDSL | Complies |

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical

or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical Name | SARA 313 - Threshold Values % |
|---------------------------|-------------------------------|
| Zinc chloride - 7646-85-7 | 1.0 |

SARA 311/312 Hazard Categories

| | |
|-----------------------------------|-----|
| Acute health hazard | Yes |
| Chronic Health Hazard | Yes |
| Fire hazard | No |
| Sudden release of pressure hazard | No |
| Reactive Hazard | No |

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical Name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|----------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Zinc chloride 7646-85-7 | 1000 lb | X | - | X |

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical Name | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ) |
|----------------------------|--------------------------|----------------|---|
| Zinc chloride 7646-85-7 | 1000 lb | - | RQ 1000 lb final RQ RQ 454 kg final RQ |

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|----------------------------|------------|---------------|--------------|
| Zinc chloride 7646-85-7 | X | X | X |

U.S. EPA Label Information

EPA Pesticide Registration Number This product does not contain any substances regulated as pesticides

Difference between SDS and CPSC label

This product is regulated under Consumer Product Safety Commission and is subject to certain labeling requirements under the Federal Hazardous Substances Act (16 CFR Part 1500) . These requirements differ from the classification criteria and hazard information required for safety data sheets and for workplace product labels.

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

| | | | | |
|-------------|-------------------|----------------|--------------------|------------------------------------|
| NFPA | Health hazards 3 | Flammability 0 | Instability 0 | Physical and Chemical Properties - |
| HMIS | Health hazards 3* | Flammability 0 | Physical hazards 0 | Personal protection X |

Prepared By Regulatory Affairs
 Revision Date 25-Mar-2021
 Revision Note No information available

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet