

# SAFETY DATA SHEET

# 1. Product and Company Identification

**Pro Series Phos Remove Product identifier** 

Other means of identification

Recommended use

**Recommended restrictions** 

Manufacturer

Phosphate remover

None known.

Not available

Natural Chemistry L.P.

40 Richards Ave. Norwalk, CT 06854 US Phone: (800) 753-1233

Emergency Phone: CHEMTREC (800) 424-9300

## 2. Hazards Identification

Not classified. **Physical hazards** 

**Health hazards** Acute toxicity, oral Category 4

> Skin corrosion/irritation Category 1 Serious eye damage/eye irritation Category 1

Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

Not classified. **Environmental hazards OSHA** defined hazards Not classified.

Label elements



Signal word Danger

**Hazard statement** Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause respiratory irritation.

**Precautionary statement** 

Prevention Do not breathe mist or vapor. Wear protective gloves/protective clothing/eye protection/face

protection. Do not eat, drink or smoke when using this product. Use only outdoors or in a

well-ventilated area. Wash thoroughly after handling.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and Response

easy to do. Continue rinsing.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

Immediately call a poison center/doctor. Specific treatment (see product label).

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information 91% of the mixture consists of component(s) of unknown acute inhalation toxicity.

## 3. Composition/Information on Ingredients

#### **Mixture**

Chemical name	Common name and synonyms	CAS number	%
Aluminum chlorhydrate		12042-91-0	7-13
Lanthanum Chloride (lacl3), Hydrate		20211-76-1	7-13
Zinc chloride		7646-85-7	7-13

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## 4. First Aid Measures

Inhalation

If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a

poison center/doctor/.

Skin contact

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Immediately call a poison center/doctor/. Specific

treatment (see product label).

Eye contact

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/doctor.

Ingestion

If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center/doctor/.

Most important symptoms/effects, acute and

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

delayed Indication of immediate

blindness could result.

medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Avoid contact with eyes and skin. Wear rubber gloves and chemical splash goggles. Keep out of reach of children.

# 5. Fire Fighting Measures

Suitable extinguishing media

Dry chemical. Carbon dioxide. Water spray. Foam.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

During fire, gases hazardous to health may be formed.

the chemical
Special protective equipment

,

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards

No unusual fire or explosion hazards noted.

**Hazardous combustion** 

Hydrogen chloride. Oxides of sulfur. Oxides of aluminum.

products

**Explosion data** 

Not available.

impact

Net evelleble

Sensitivity to static discharge

Sensitivity to mechanical

Not available.

## 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapors or mists. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Stop the flow of material, if this is without risk.

Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautions

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

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Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and Storage

#### Precautions for safe handling

Do not breathe mist or vapor. Do not get this material in contact with eyes. Do not get this material in contact with skin. Do not get this material on clothing. Do not taste or swallow. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Use care in handling/storage.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS). Keep out of the reach of children.

## 8. Exposure Controls/Personal Protection

#### Occupational exposure limits

Components	Type	Value	Form
Zinc chloride (CAS 7646-85-7)	PEL	1 mg/m3	Fume.

#### **US. ACGIH Threshold Limit Values**

Components	Туре	Value	Form
Aluminum chlorhydrate (CAS 12042-91-0)	TWA	1 mg/m3	Respirable fraction.
Zinc chloride (CAS 7646-85-7)	STEL	2 mg/m3	Fume.
	TWA	1 mg/m3	Fume.
US. NIOSH: Pocket Guide to Ch	nemical Hazards		
Components	Type	Value	Form

Aluminum chlorhydrate (CAS 12042-91-0)	TWA	2 mg/m3	
Zinc chloride (CAS 7646-85-7)	STEL	2 mg/m3	Fume.
	TWA	1 mg/m3	Fume.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Safety goggles or glasses.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.Other Wear appropriate chemical resistant clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Not applicable.

General hygiene considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work elething and protective equipment to remove contaminants.

wash work clothing and protective equipment to remove contaminants.

## 9. Physical and Chemical Properties

Appearance	Clear
Physical state	Liquid.
Form	Liquid.
Color	Colorless
Odor	Not available.
Odor threshold	Not available.
рН	2 - 4
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.

Pour point Not available.

Specific gravity 1.1 - 1.3

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Partition coefficient

(n-octanol/water)

Not available.

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

por pressure Not available.

Vapor pressureNot available.Vapor densityNot available.Relative density8 - 11 lb/galSolubility(ies)CompleteAuto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

10. Stability and Reactivity

Reactivity

Reacts vigorously with alkaline material.

Possibility of hazardous

Chemical stability

reactions

No dangerous reaction known under conditions of normal use.

Material is stable under normal conditions.

**Conditions to avoid**Contact with incompatible materials.

Incompatible materials
Hazardous decomposition

products

Hydrogen chloride. Oxides of sulfur. Oxides of aluminum.

Strong oxidizing agents. Caustics. Reducing agents.

## 11. Toxicological Information

Routes of exposure Inhalation. Ingestion. Skin contact. Eye contact.

Information on likely routes of exposure

**Ingestion** Causes digestive tract burns. Harmful if swallowed.

**Inhalation** Prolonged inhalation may be harmful. May cause irritation to the respiratory system.

Skin contact Causes severe skin burns.

Eye contact Causes serious eye damage.

Symptoms related to the physical, chemical and toxicological characteristics

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

Information on toxicological effects

Acute toxicity Harmful if swallowed. May cause respiratory irritation.

Components Species Test Results

Aluminum chlorhydrate (CAS 12042-91-0)

**Acute** 

Dermal

LD50 Rabbit > 2000 mg/kg

Inhalation

LC50 Not available

Oral

LD50 Rat 9187 mg/kg

Lanthanum Chloride (lacl3), Hydrate (CAS 20211-76-1)

**Acute** Dermai

LD50 Not available

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Components Species Test Results

Inhalation

LC50 Not available

Oral

LD50 Rat 4184 mg/kg

Zinc chloride (CAS 7646-85-7)

**Acute** Dermal

LD50 Not available

Inhalation

LC50 Not available

Oral

 LD50
 Guinea pig
 200 mg/kg

 Mouse
 350 mg/kg

Rat 350 mg/kg

**Skin corrosion/irritation** Causes severe skin burns and eye damage.

Exposure minutesNot available.Erythema valueNot available.Oedema valueNot available.

Serious eye damage/eye

irritation

Causes serious eye damage.

Corneal opacity value Not available.

Iris lesion value Not available.

Conjunctival reddening Not available.

value

Recover days

Conjunctival oedema value Not available.

Not available.

Respiratory or skin sensitization

Respiratory sensitization Not classified.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**ACGIH Carcinogens** 

Aluminum chlorhydrate (CAS 12042-91-0)

A4 Not classifiable as a human carcinogen.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

Teratogenicity Not classified.

Specific target organ toxicity -

single exposure

Respiratory tract irritation.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not classified.

**Chronic effects** Prolonged inhalation may be harmful.

Further information Not available.

Name of Toxicologically
Synergistic Products

Not available.

## 12. Ecological Information

**Ecotoxicity** See below

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Components Species Test Results

Zinc chloride (CAS 7646-85-7)

**Aquatic** 

Crustacea EC50 American or virginia oyster (Crassostrea 0.151 - 0.278 mg/L, 48 hours

virginica)

Fish LC50 Rainbow trout, donaldson trout 0.101 - 0.197 mg/L, 96 hours

(Oncorhynchus mykiss)

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potentialNo data available.Mobility in soilNo data available.Mobility in generalNot available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal Considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material

and its container must be disposed of as hazardous waste. Incinerate the material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

ons Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

## 14. Transport Information

General Canada: TDG Proof of Classification: In accordance with Part 2.2.1 (SOR/2014-152) of the

Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue. If applicable, the technical name and the classification of

the product will appear below.

## U.S. Department of Transportation (DOT)

Basic shipping requirements:

UN number UN3264

**Proper shipping name** Corrosive liquid, acidic, inorganic, n.o.s. (Zinc chloride)

Hazard class Limited Quantity - US

Packing group III

Special provisions IB3, T7, TP1, TP28
Packaging exceptions <5L - Limited Quantity

Packaging non bulk 203 Packaging bulk 241

## **Transportation of Dangerous Goods (TDG - Canada)**

Basic shipping requirements:

UN number UN3264

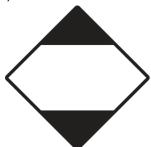
Proper shipping name CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Zinc chloride)

Hazard class Limited Quantity - Canada

Packing group III Special provisions 16

Packaging exceptions <5L - Limited Quantity

DOT; TDG



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15. Regulatory Information

Canadian federal regulations

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products

Regulations.

Canada CEPA Schedule I: Listed substance

Zinc chloride (CAS 7646-85-7) Listed. Canada Priority Substances List (Second List): Listed substance

Zinc chloride (CAS 7646-85-7) Listed.

Canada WHMIS Ingredient Disclosure: Threshold limits

Aluminum chlorhydrate (CAS 12042-91-0) 1 % Zinc chloride (CAS 7646-85-7) 1 %

**WHMIS** status Controlled

WHMIS classification Class E - Corrosive Material

WHMIS labeling



This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication US federal regulations

Standard, 29 CFR 1910.1200.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

Zinc chloride (CAS 7646-85-7) 1.0 % N982 US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Zinc chloride (CAS 7646-85-7) Listed, N982

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US CWA Section 311 Hazardous Substances: Listed substance

Zinc chloride (CAS 7646-85-7)

US CWA Section 307(a)(1) Toxic Pollutants: Listed substance

Zinc chloride (CAS 7646-85-7) Listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Zinc chloride (CAS 7646-85-7) Listed.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

**SARA 302 Extremely** 

Nο hazardous substance

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

**Chemical name CAS** number % by wt. Zinc chloride 7-13 7646-85-7

Other federal regulations

Clean Water Act (CWA) Section 112(r) (40 CFR

Hazardous substance

68.130)

Safe Drinking Water Act

Not regulated.

(SDWA)

**Food and Drug** 

Not regulated.

Administration (FDA)

**US state regulations** 

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US - California Hazardous Substances (Director's): Listed substance

Aluminum chlorhydrate (CAS 12042-91-0) Listed.

#24131 Page: 7 of 8 Issue date 14-December-2015 Zinc chloride (CAS 7646-85-7) Listed.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

US - Illinois Chemical Safety Act: Listed substance

Zinc chloride (CAS 7646-85-7) Listed.

US - Louisiana Spill Reporting: Listed substance

Zinc chloride (CAS 7646-85-7) Listed.

**US - Michigan Critical Materials Register: Parameter number** 

Zinc chloride (CAS 7646-85-7) 07440-66-6 Listed.

**US - Minnesota Haz Subs: Listed substance** 

Aluminum chlorhydrate (CAS 12042-91-0) Listed. Zinc chloride (CAS 7646-85-7) Listed.

US - New Jersey RTK - Substances: Listed substance

Zinc chloride (CAS 7646-85-7) Listed

US - New York Release Reporting: Hazardous Substances: Listed substance

Zinc chloride (CAS 7646-85-7) Listed.

**US - Texas Effects Screening Levels: Listed substance** 

Aluminum chlorhydrate (CAS 12042-91-0) Listed. Zinc chloride (CAS 7646-85-7) Listed.

**US. Massachusetts RTK - Substance List** 

Zinc chloride (CAS 7646-85-7) Listed.

US. Pennsylvania RTK - Hazardous Substances

Aluminum chlorhydrate (CAS 12042-91-0) Listed. Zinc chloride (CAS 7646-85-7) Listed.

**US. Rhode Island RTK** 

Zinc chloride (CAS 7646-85-7) Listed.

## Inventory status

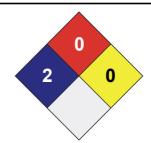
Country(s) or region Inventory name On inventory (yes/no)\* Domestic Substances List (DSL) Canada Yes Canada Non-Domestic Substances List (NDSL) No Toxic Substances Control Act (TSCA) Inventory United States & Puerto Rico Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

### 16. Other Information







Disclaimer

Issue date

Effective date

**Expiry date** 

The information in the sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained

in this document.

14-December-2015 14-December-2015

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the **Further information** 

document.

Prepared by Dell Tech Laboratories, Ltd. Phone: (519) 858-5021

14-December-2018

Other information This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication

Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of

Chemicals (GHS).

This SDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.

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