

## SAFETY DATA SHEET

### 1. Product and Company Identification

Product identifier Recommended use

Manufacturer

Pristiva™ Phos Cleanse Plus

Phosphate remover **Backyard Brands, Inc.** 401 S. Enterprise Blvd.

Lebanon, IN 46052 US Phone: (866) 875-0012

Emergency Phone: CHEMTREC (800) 424-9300

#### 2. Hazards Identification

Physical hazards Not classified.

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

**Environmental hazards OSHA defined hazards** 

Not classified. Not classified.

Label elements



Signal word Danger

Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious 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.

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/doctor. 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. If swallowed: Rinse mouth. Do NOT induce vomiting. If swallowed: Call a poison center/doctor if you

feel unwell.

**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** Not applicable.

## 3. Composition/Information on Ingredients

#### Mixture

Chemical name	Common name and synonyms	CAS number	%
Lanthanum Chloride (lacl3), Hydrate		20211-76-1	11.05
Zinc chloride		7646-85-7	9.38
Aluminum chlorhydrate		12042-91-0	8.25

## 4. First Aid Measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician

if symptoms develop or persist.

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Take off immediately all contaminated clothing. Wash off with soap and water. Rinse skin with Skin contact

water/shower. Call a physician or poison control center immediately. Chemical burns must be

treated by a physician. Wash contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Rinse with water. Remove Eye contact

contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control

center immediately.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may Most important

symptoms/effects, acute and include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

Indication of immediate medical attention and special

delayed

treatment needed

General information

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

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). Wear rubber gloves and chemical splash goggles.

## 5. Fire Fighting Measures

Suitable extinguishing media

Unsuitable extinguishing media

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

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Dry chemical. Carbon dioxide. Water spray. Foam.

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

**Hazardous combustion** 

products

No unusual fire or explosion hazards noted. Hydrogen chloride. Oxides of sulfur. Oxides of aluminum.

**Explosion data** 

Sensitivity to mechanical

impact

Sensitivity to static

discharge

Not available

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

This product is miscible in water. 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. 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.

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## 8. Exposure Controls/Personal Protection

### Occupational exposure limits

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

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 Che	emical Hazards		
Components	Туре	Value	Form
Aluminum chlorhydrate (CAS 12042-91-0)	TWA	2 mg/m3	

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**STEL** 

TWA

Appropriate engineering controls

Zinc chloride (CAS

7646-85-7)

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. Eye wash facilities and emergency shower must be available when handling this product.

2 mg/m3

1 mg/m3

Fume.

Fume.

Individual protection measures, such as personal protective equipment

Eye/face protection Safety goggles or glasses.

Skin protection

Hand protection Wear appropriate chemical resistant gloves. 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 clothing and protective equipment to remove contaminants.

### 9. Physical and Chemical Properties

Clear **Appearance** Physical state Liquid. Liquid. **Form** Colorless Color Odor Not available. Not available. **Odor threshold** 2 - 4 pН Not available. Melting point/freezing point Not available. Initial boiling point and boiling range Not available. 1.1 - 1.3

Pour point Specific gravity **Partition coefficient** Not available. (n-octanol/water)

Not available. Flash point Not available. **Evaporation rate** Flammability (solid, gas) Not applicable.

#24131 Page: 3 of 8 November 26, 2014 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.

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

reactions

No dangerous reaction known under conditions of normal use.

Chemical stability Material is stable under normal conditions.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidizing agents. Caustics. Reducing agents.

Hazardous decomposition

products

Hydrogen chloride. Oxides of sulfur. Oxides of aluminum.

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.

<u>Components</u> <u>Species</u> <u>Test Results</u>

Aluminum chlorhydrate (CAS 12042-91-0)

**Acute**Dermal

LD50 Rabbit

> 2000 mg/kg

Inhalation

LC50 Not available

Oral

LD50 Rat 1987 mg/kg

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

**Acute** 

Dermal

LD50 Not available

Inhalation

LC50 Not available

Oral

LD50 Not available

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<u>Components</u> <u>Species</u> <u>Test Results</u>

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 valueNot available.Iris lesion valueNot available.Conjunctival reddeningNot available.

value

Conjunctival oedema value Notavailable.

Recover days 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 Not available.

Synergistic Products

# 12. Ecological Information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

See below

<u>Components</u> Species <u>Test Results</u>

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)

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Persistence and degradability No data is available on the degradability of this product.

**Bioaccumulative potential** No data available. No data available. Mobility in soil Mobility in general Not available.

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

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 undercontrolled 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.

Dispose in accordance with all applicable regulations.

Local disposal 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 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: products

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

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

Not regulated as dangerous goods.

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

Not regulated as dangerous goods.

## 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 D - Division 2B

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) Listed.

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.

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### 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 hazardous substance

No

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Chemical nameCAS number% by wt.Zinc chloride7646-85-79.38

Other federal regulations

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

Hazardous substance

68.130)

**Safe Drinking Water Act** 

Not regulated.

(SDWA)

**US** state regulations

Food and Drug

Not regulated.

Administration (FDA)

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

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

Not listed.

**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.

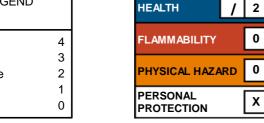
Inventory status

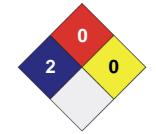
Country(s) or regionInventory nameOn inventory (yes/no)\*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

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

### 16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





Disclaimer

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.

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