

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name Phosfree
CAS # Mixture

Product use Phosphate remover

Manufacturer Natural Chemistry, Inc.
40 Richards Ave.
Norwalk, CT 06854 US

Norwalk, CT 06854 US Phone: (800) 753-1233

Emergency Phone: CHEMTREC (800) 424-9300

LEGEND
HMIS/NFPA

Severe 4
Serious 3
Moderate 2
Slight 1
Minimal 0





2. Hazards Identification

Emergency overview CAUTION

EYE IRRITANT. Skin irritation possible with prolonged exposure.

Potential short term health effects

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

Eyes Liquid is mildly irritating to eyes.

Skin Substance may cause slight skin irritation.

Inhalation May cause respiratory tract irritation.

Ingestion May cause stomach distress, nausea or vomiting.

Target organs Eyes. Skin.

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomiting.

3. Composition / Information on Ingredients

Ingredient(s)	CAS#	Percent
Lanthanum chloride	10099-58-8	7 - 13
Lanthanum sulfate	10099-60-2	1 - 5

4. First Aid Measures

First aid procedures

Eye contact Flush with cool water. Remove contact lenses, if applicable, and continue flushing.

Obtain medical attention if irritation persists.

Skin contact Flush with cool water. Wash with soap and water. Obtain medical attention if irritation

persists.

Inhalation If symptoms develop move victim to fresh air. If symptoms persist, obtain medical

attention.

Ingestion Do not induce vomiting. Rinse mouth with water, then drink one or two glasses of water.

Obtain medical attention. Never give anything by mouth if victim is unconscious, or is

convulsing.

Notes to physician Symptoms may be delayed.

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General	
GCHCIA	auvice

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire Fighting Measures

Flammable properties

Not flammable by WHMIS/OSHA criteria.

Extinguishing media

Suitable extinguishing media

Treat for surrounding material.

Unsuitable extinguishing media Not available

Protection of firefighters

Specific hazards arising from

the chemical

Not available

Protective equipment for

firefighters

Firefighters should wear full protective clothing including self contained breathing

May include and are not limited to: Oxides of sulphur. Hydrogen chloride.

apparatus.

Hazardous combustion products

Explosion data Sensitivity to mechanical

Not available

impact

Sensitivity to static discharge

Not available

6. Accidental Release Measures

Keep unnecessary personnel away. Do not touch or walk through spilled material. Do Personal precautions

not touch damaged containers or spilled material unless wearing appropriate protective

clothing. Keep people away from and upwind of spill/leak.

Stop leak if you can do so without risk. Prevent entry into waterways, sewers, Methods for containment

basements or confined areas.

Before attempting clean up, refer to hazard data given above. Small spills may be Methods for cleaning up

absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.

7. Handling and Storage

Handling Storage

Use good industrial hygiene practices in handling this material.

Keep out of reach of children. Store in a closed container away from incompatible

materials.

8. Exposure Controls / Personal Protection

Exposure limits

Ingredient(s) **Exposure Limits**

Lanthanum chloride **ACGIH-TLV** Not established **OSHA-PEL** Not established

Lanthanum sulfate **ACGIH-TLV** Not established

> **OSHA-PEL** Not established

Engineering controls

General ventilation normally adequate.

Personal protective equipment

Eye / face protection

Wear safety glasses with side shields.

Hand protection

Rubber gloves. Confirm with a reputable supplier first.

Skin and body protection

As required by employer code.

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respiratory protection

9. Physical & Chemical Properties

Skim milk when shaken Appearance

Color White

Not available **Form**

Odor musty

Odor threshold Not available

Physical state Liquid containing solids

2.1 - 2.3Нα Not available **Melting point** Not available Freezing point Not available **Boiling point** Not available Flash point **Evaporation rate** Not available Flammability limits in air, lower, % Not available

by volume

Flammability limits in air, upper, %

by volume

Not available

Not available Vapor pressure Not available Vapor density 1.09 - 1.11 Specific gravity Octanol/water coefficient Not available Solubility (H2O) Complete Auto-ignition temperature Not available

VOC (Weight %) Not available Not available **Viscosity** Percent volatile Not available

10. Chemical Stability & Reactivity Information

Chemical stability Stable under recommended storage conditions.

Conditions to avoid Do not mix with other chemicals.

Incompatible materials Caustics.

May include and are not limited to: Oxides of sulphur. Hydrogen chloride. Hazardous decomposition products

Hazardous polymerization does not occur. Possibility of hazardous reactions

11. Toxicological Information

Acute LD50: 5000 mg/kg, Rat, Oral **Acute effects** Acute LD50: 5000 mg/kg, Rat, Dermal

Component analysis - LC50

LC50 Ingredient(s)

Lanthanum chloride Not available Lanthanum sulfate Not available

Component analysis - Oral LD50

LD50 Ingredient(s)

Lanthanum chloride 4184 mg/kg rat Lanthanum sulfate 4991 mg/kg rat

Effects of acute exposure

Liquid is mildly irritating to eyes. Eye

Skin Substance may cause slight skin irritation.

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Inhalation May cause respiratory tract irritation.

Ingestion May cause stomach distress, nausea or vomiting.

Non-hazardous by WHMIS/OSHA criteria. Sensitization Non-hazardous by WHMIS/OSHA criteria. Chronic effects Carcinogenicity Non-hazardous by WHMIS/OSHA criteria. Non-hazardous by WHMIS/OSHA criteria. Mutagenicity Non-hazardous by WHMIS/OSHA criteria. Reproductive effects **Teratogenicity** Non-hazardous by WHMIS/OSHA criteria.

12. Ecological Information

This product has not been tested. **Ecotoxicity**

Environmental effects Not available Not available Aquatic toxicity Persistence / degradability Not available Bioaccumulation / accumulation Not available Not available Partition coefficient Not available Mobility in environmental media Chemical fate information Not available

13. Disposal Considerations

Not available Waste codes

Disposal instructions Dispose in accordance with all applicable regulations. Not available

Waste from residues / unused

products

Not available Contaminated packaging

14. Transport Information

Department of Transportation (DOT)

Not regulated as dangerous goods.

Transportation of Dangerous Goods (TDG)

Not regulated as dangerous goods.

15. Regulatory Information

This product has been classified in accordance with the hazard criteria of the Controlled Canadian federal regulations

Products Regulations and the MSDS contains all the information required by the

Controlled Products Regulations.

This product is a "Hazardous Chemical" as defined by the OSHA Hazard **US Federal regulations**

Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

Yes

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

Section 302 extremely

hazardous substance

Section 311 hazardous chemical Yes

Not available Clean Air Act (CAA)

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Clean Water Act (CWA)

Safe Drinking Water Act (SDWA)

Drug Enforcement Agency (DEA)

Food and Drug Administration
(FDA)

Not available
Not available

WHMIS status Controlled

WHMIS classification Class D - Division 2B

WHMIS labeling



State regulations This product does not contain a chemical known to the State of California to cause

cancer, birth defects or other reproductive harm.

Inventory name

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

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

16. Other Information

Disclaimer 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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