

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name Phosfree CAS # Mixture

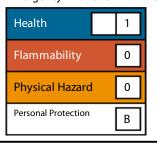
Product use Phosphate remover

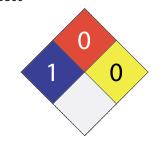
Manufacturer Natural Chemistry, Inc.
40 Richards Ave.
Norwalk, CT 06854 US
Phone: (800) 753-1233

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.

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 apparatus.
Hazardous combustion products	May include and are not limited to: Oxides of sulphur. Hydrogen chloride.
Explosion data	
Sensitivity to mechanical impact	Not available
Sensitivity to static discharge	Not available
	6. Accidental Release Measures
Personal precautions	Keep unnecessary personnel away. Do not touch or walk through sp illed material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of sp ill/leak.
Methods for containment	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Before attempting clean up, refer to hazard data given above. Small sp ills may be 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 sp ills in original containers for re-use.
	7. Handling and Storage
Handling	Use good industrial hygiene practices in handling this material.
Storage	Keep out of reach of children. Store in a closed container away from incompatible materials.
8. Ex	posure 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.
	As required by employer code.
Skin and body protection	
Respiratory protection	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

9. Physical & Chemical Properties

Skim milk when shaken **Appearance**

Color White

Not available Form Odor musty

Odor threshold Not available

Liquid containing solids Physical state

2.1 - 2.3 рΗ Not available Melting point Freezing point Not available Not available **Boiling** point Flash point Not available Not available **Evaporation rate** Not available

Flammability limits in air, lower, %

by volume

Flammability limits in air, upper, %

by volume

Vapor pressure Not available Not available Vapor density 1.09 - 1.11 Specific gravity Octanol/water coefficient Not available Complete Solubility (H2O) Auto-ignition temperature Not available Not available VOC (Weight %) Viscosity Not available Not available Percent volatile

10. Chemical Stability & Reactivity Information

Chemical stability Stable under recommended storage conditions.

Conditions to avoid Do not mix with other chemicals.

Caustics. Incompatible materials

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

Not available

Hazardous polymerization does not occur. Possibility of hazar dous reactions

11. Toxicological Information

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

Component analysis - LC50

Ingredient(s) LC50

Lanthanum chloride Not available Lanthanum sulfate Not available

Component analysis - Oral LD50

Ingredient(s) LD50

Lanthanum chloride 4184 mg/kg rat

Lanthanum sulfate 4991 mg/kg rat

Effects of acute exposure

Liquid is mildly irritating to eyes. Eye

Substance may cause slight skin irritation. Skin

Inhalation May cause respiratory tract irritation.

May cause stomach distress, nausea or vomiting. Ingestion

Non-hazardous by WHMIS/OSHA criteria. Sensitization Chronic effects Non-hazardous by WHMIS/OSHA criteria. 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

Ecotoxicity This product has not been tested.

Not available **Environmental effects** Not available Aquatic toxicity Not available Persistence / degradability 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

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

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

No

Yes

Superfund Amendments and Reau thorization Ac t 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

Not available Clean Air Act (CAA)

#17288 Page 4 of 5 Issue date 16-April-2009 Clean Water Act (CWA)

Safe Drinking Water Act (SDWA)

Drug Enforcement Agency (DEA)

Food and Drug Administration

Not available

Not available

(FDA)

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)Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing coun try(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 w ill not be liable for any losses, injuries or consequential damages which may result from the

Yes

use of or reliance on any information contained in this document.

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#17288 Page 5 of 5 Issue date 16-April-2009