

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name Pool Perfect Plus Phosfree

CAS # Mixture

Product use Water cleaning compound and Phosphate remover

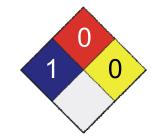
Manufacturer

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.

SkinSubstance may cause slight skin irritation.InhalationMay 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.

General advice

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. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Flammable properties

Not flammable by WHMIS/OSHA criteria.

Extinguishing media

Dry chemical. Water spray. Carbon dioxide. Foam. Suitable extinguishing media

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.

Hazardous combustion products

Sensitivity to mechanical

Explosion data

Not available

impact

Sensitivity to static discharge

Not available

6. Accidental Release Measures

Personal precautions

Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/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 spills 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 spills 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. 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

Personal protective equipment

Wear safety glasses with side shields.

General ventilation normally adequate.

Hand protection

Eye / face 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

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9. Physical & Chemical Properties

Liquid **Appearance** Color Not available **Form** Liquid Odor Slight Molasses

Odor threshold Not available **Physical state** Liquid 2.1 - 2.3Ηq **Melting point** Not available Not available Freezing point Not available **Boiling point** Not available Flash point Not available **Evaporation rate** Flammability limits in air, lower, % Not available

by volume

Flammability limits in air, upper, %

by volume

Percent volatile

Not available

Not available Vapor pressure Not available Vapor density Specific gravity 1.09 - 1.11 9.08 - 9.25Relative density Octanol/water coefficient Not available Appreciable Solubility (H2O) Not available **Auto-ignition temperature** VOC (Weight %) Not available **Viscosity** Not available Not available

10. Chemical Stability & Reactivity Information

Stable under recommended storage conditions. **Chemical stability**

Do not mix with other chemicals. Conditions to avoid

Caustics. Incompatible materials

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

Possibility of hazardous reactions Hazardous polymerization does not occur.

11. Toxicological Information

LC50 Ingredient(s) Not available Lanthanum chloride Lanthanum sulfate Not available Component analysis - Oral LD50 Ingredient(s) LD50 Lanthanum chloride 4184 mg/kg rat

Effects of acute exposure

Lanthanum sulfate

Component analysis - LC50

Liquid is mildly irritating to eyes. Eye

Skin Substance may cause slight skin irritation. May cause respiratory tract irritation. Inhalation

4991 mg/kg rat

Ingestion May cause stomach distress, nausea or vomiting.

Sensitization Non-hazardous by WHMIS/OSHA criteria.

Chronic effects Non-hazardous by WHMIS/OSHA criteria.

Carcinogenicity Non-hazardous by WHMIS/OSHA criteria.

Mutagenicity Non-hazardous by WHMIS/OSHA criteria.

Reproductive effects Non-hazardous by WHMIS/OSHA criteria.

Teratogenicity Non-hazardous by WHMIS/OSHA criteria.

12. Ecological Information

Ecotoxicity Components of this product have been identified as having potential environmental

concerns.

Environmental effects

Aquatic toxicity

Persistence / degradability

Bioaccumulation / accumulation

Partition coefficient

Mobility in environmental media

Chemical fate information

Not available

Not available

Not available

13. Disposal Considerations

Waste codes Not available

Disposal instructions Dispose in accordance with all applicable regulations.

Waste from residues / unused

products

Not available

Contaminated packaging Not available

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.

US Federal regulationsThis product is a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

Yes

No

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

Clean Air Act (CAA)

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



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

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