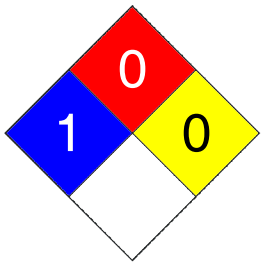
# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

| | |
|---|---|
| **Product Name** | **Pool Magic Plus Phosfree** |
| **CAS #** | Mixture |
| **Product use** | Water cleaning compound and Phosphate remover |
| **Manufacturer** | Natural Chemistry, Inc.<br>40 Richards Ave.<br>Norwalk, CT 06854 US<br>Phone: (800) 753-1233<br>Emergency Phone: CHEMTREC (800) 424-9300 |

| LEGEND HMIS/NFPA | |
|---|---|
| Severe | 4 |
| Serious | 3 |
| Moderate | 2 |
| Slight | 1 |
| Minimal | 0 |

| | | |
|---|---|---|
| Health | / | 1 |
| Flammability | | 0 |
| Physical Hazard | | 0 |
| Personal Protection | | B |




## 2. Hazards Identification

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| **Emergency overview** | CAUTION<br>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

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|---|---|
| **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. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention. |
| **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. Keep out of reach of children. |

## 5. Fire Fighting Measures

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|---|---|
| **Flammable properties** | Not flammable by WHMIS/OSHA criteria. |
| **Extinguishing media** | |
| **Suitable extinguishing media** | Dry chemical. Water spray. Carbon dioxide. Foam. |
| **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

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|---|---|
| **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

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|---|---|
| **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**<br>Not established<br>**OSHA-PEL**<br>Not established |
| Lanthanum sulfate | **ACGIH-TLV**<br>Not established<br>**OSHA-PEL**<br>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. |
| **Respiratory protection** | Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. |
| **General hygiene considerations** | Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product. |

## 9. Physical and Chemical Properties

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|---|---|
| **Appearance** | Liquid |
| **Color** | Not available |
| **Form** | Liquid |
| **Odor** | Slight Molasses |
| **Odor threshold** | Not available |
| **Physical state** | Liquid |
| **pH** | 2.1 - 2.3 |
| **Melting point** | Not available |
| **Freezing point** | Not available |
| **Boiling point** | Not available |
| **Pour point** | Not available |
| **Evaporation rate** | Not available |
| **Flash point** | Not available |
| **Auto-ignition temperature** | Not available |
| **Flammability limits in air, lower, % by volume** | Not available |
| **Flammability limits in air, upper, % by volume** | Not available |
| **Vapor pressure** | Not available |
| **Vapor density** | Not available |
| **Specific gravity** | 1.09 - 1.11 |
| **Relative density** | 9.08 - 9.25 |
| **Octanol/water coefficient** | Not available |
| **Solubility (H2O)** | Appreciable |
| **VOC (Weight %)** | Not available |
| **Viscosity** | Not available |
| **Percent volatile** | Not available |

## 10. Stability and Reactivity

| | |
|---|---|
| **Chemical stability** | Stable under recommended storage conditions. |
| **Conditions to avoid** | Do not mix with other chemicals. |
| **Incompatible materials** | Caustics. |
| **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

**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**

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|---|---|
| **Eye** | 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. |

| | |
|---|---|
| **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. |
| **Synergistic Materials** | Not available |

## 12. Ecological Information

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|---|---|
| **Ecotoxicity** | Components of this product have been identified as having potential environmental concerns. |
| **Environmental effects** | Not available |
| **Aquatic toxicity** | Not available |
| **Persistence / degradability** | Not available |
| **Bioaccumulation / accumulation** | Not available |
| **Partition coefficient** | Not available |
| **Mobility in environmental media** | Not available |
| **Chemical fate information** | Not available |
| **Other adverse effects** | Not available |

## 13. Disposal Considerations

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|---|---|
| **Waste codes** | Not available |
| **Disposal instructions** | Review federal, state/provincial, and local government requirements prior to disposal. |
| **Waste from residues / unused products** | Not available |
| **Contaminated packaging** | Not available |

## 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

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|---|---|
| **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 regulations** | This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.<br>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<br>Delayed Hazard - No<br>Fire Hazard - No<br>Pressure Hazard - No<br>Reactivity Hazard - No |

| | |
|---|---|
| **Section 302 extremely hazardous substance** | No |
| **Section 311 hazardous chemical** | Yes |
| **Clean Air Act (CAA)** | Not available |
| **Clean Water Act (CWA)** | 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 region | Inventory name | On inventory (yes/no)* |
|---|---|---|
| Canada | Domestic Substances List (DSL) | No |
| Canada | Non-Domestic Substances List (NDSL) | Yes |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | 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** | 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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| **Prepared by** | Dell Tech Laboratories Ltd. (519) 858-5021 |
| **Other information** | For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document. |