



Fisher Science Education
6771 Silver Crest Road, Nazareth, PA 18064 (800) 955-1177
Emergency Number: (800) 255-3924

Material Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Catalog Numbers: S25858
Product Identity: Lead Nitrate 0.1M

Chemical Family: Not Applicable
Synonyms: Not available
Recommended Use: Laboratory chemicals

Manufacturer's Name: AquaPhoenix Scientific, Inc., 9 Barnhart Dr., Hanover, PA 17331, (866) 632-1291
Emergency Contact Number (24hr): Chemtel (800) 255-3924

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Section 2 – Hazard Identification

Emergency Overview: WARNING! May be harmful if swallowed. Oxidizing agent, body tissue irritant and slightly toxic by ingestion. Contains a chemical known to the state of California to cause cancer.

Appearance: Clear, colorless liquid **Odor:** Odorless

Target Organs: Blood, heart, gums, kidneys, endocrine, immune and central nervous systems.

Potential Health Effects/ Routes of Exposure:

Eyes: May cause redness, tearing, itching, burning and pain.

Skin: May cause redness, itching

Ingestion: May cause irritation and burning sensations of mouth and throat, nausea, vomiting and abdominal pain

Inhalation: May cause irritation of the mucous membranes, coughing, wheezing, shortness of breath.

Chronic Effect / Carcinogenicity: Lead accumulates in bone and teeth on prolonged or repeated exposure.

Aggravated Medical Conditions No information available

These chemicals are considered hazardous by OSHA.

See section 11 for toxicological information. See section 12 for potential environmental effects.

Section 3 – Composition, Information on Ingredients

Lead Nitrate, CAS# 10099-74-8, <4% w/v
Water, purified, CAS# 7732-18-5, >96% w/v

Section 4 – First Aid

Eyes: Immediately flush eyes with water for at least 15 minutes. Immediately get medical assistance.

Skin: Flush with water for 15 minutes. Get medical assistance if irritation develops.

Ingestion: Induce vomiting immediately. Dilute with water. Get medical assistance.

Inhalation: Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

Notes to Physician Treat symptomatically.

Section 5 – Fire Fighting Measures

Flash Point: Not Applicable **Autoignition Temperature** No information available.
Explosion Limits Upper No data available **Lower** No data available
Extinguishing Media: Use foam or dry chemical to extinguish surrounding fire
Unsuitable Extinguishing Media: No information available
Fire & Explosion Hazards: Not considered to be a fire or explosion hazard. Heat of reaction can accelerate the combustion of ordinary combustible materials.
Fire Fighting Instructions / Equipment: Use normal procedures. Oxidizer. Use protective clothing. Use NIOSH-approved breathing equipment.
Hazardous Combustion Products: No information Available
Sensitivity to mechanical impact No information available.
Sensitivity to static discharge No information available.
Specific Hazards Arising from the Chemical: When heated to decomposition, emits acrid fumes of oxides of lead and nitrogen
NFPA Rating: (estimated) Health: 1; Flammable: 0; Reactivity: 0

Section 6 – Accidental Release Measures

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

Environmental Precautions Should not be released into the environment.

Methods for Containment and Clean Up Soak up with inert absorbent material. Keep in suitable and closed containers for disposal

Section 7 – Handling and Storage

Handling: Wash hands after handling. Avoid contact with skin and eyes.

Storage: Keep Protect from freezing and physical damage. Protect from light.

Section 8 – Exposure Controls, Personal Protection

Lead Nitrate, CAS# 10099-74-8, ACGIH TLV: 0.05mg/m³, OSHA PEL: 0.05mg/m³

Water, purified, CAS# 7732-18-5, ACGIH TLV: NA, OSHA PEL: NA

Engineering Measures/ General Hygiene: Normal ventilation is adequate. Ensure eyewash and safety showers are available.

Personal Protection Equipment: Skin Protection: Chemical resistant gloves.

Eye/Face Protection: Safety Glasses or goggles. **Respiratory Protection:** Normal ventilation is adequate

Section 9 – Physical and Chemical Properties

Appearance/Physical State: Clear, colorless liquid

Odor: Odorless

% Volatility: No Information Available

Boiling Point: Approx 100C

Specific Gravity: 1.00g/mL @ 20 C

Melting Point: Approx 0C

Vapor Pressure: Not available

Vapor Density: Not available

Flash Point: Not Applicable

Evaporation Rate: Not available

Coefficient of water/oil distribution: Not Available

pH: No Information Available

Odor Threshold: Not Available

Flammability: No Information Available

Decomposition Temperature: No Information Available

Solubility: Soluble

Partition Coefficient n-octanol/water: No data

available

Relative Density: No Information Available

Molecular Weight: 331.2

Section 10 – Stability and Reactivity

Chemical Stability: Stable under normal conditions of use and storage.

Incompatible Materials: Organic materials, reducing agents, Ammonium Thiocyanate, hydrogen peroxide.

Conditions to Avoid: Heat, ignition sources

Hazardous Decomposition Products: Highly toxic fumes are released when heated to decomposition.

Hazardous Polymerization: Not available
Hazardous Reactions: None under normal processing.

Section 11 – Toxicological Information

Routes of Exposure/Symptoms/Corrosiveness – See Section 2
LD50 orl-rat: NA LC50 inhalation-rat: NA
Irritation: No Information Available
Toxicologically Synergistic: No Information Available
Chronic Exposure
Carcinogenicity Contains an ingredient (Lead Nitrate) known to the state of California to cause cancer.
Sensitization No information available.
Mutagenic Effects No information available
Reproductive Effects Cited Lead Nitrate.
Developmental Effects (Immediate/Delayed) No information available.
Teratogenicity Mutation data cited for Lead Nitrate.
Other Adverse Effects No information available
Endocrine Disruptor Information No information available

Section 12 – Ecological Information

Ecotoxicity: Contains a heavy metal toxic to beneficial microorganisms
Persistence and Degradability: No Information Available **Mobility:** No Information Available
Bioaccumulation/ Accumulation: No Information Available

Section 13 – Disposal Considerations

Waste Disposal/Waste Disposal of Packaging: Do not flush to sewer. Absorb with suitable material and containerize for disposal.
All chemical waste generators must determine whether a discarded chemical is classified as hazardous waste. Comply with all local, state, and federal regulations.

Section 14 – Transport Information

DOT - Not Regulated

Section 15 – Regulatory Information (not meant to be all inclusive)

OSHA Status: These chemicals are considered hazardous by OSHA.
Canada DSL: These chemicals are listed on Canada's DSL list.
TSCA: The components of this solution are listed on the TSCA Inventory
SARA Title III Section 313: Not Applicable
RCRA Status: Not Applicable
CERCLA Reportable Quantity: Not available
WHMIS: Not controlled

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Section 16 – Additional Information

Disclaimer: The information on this MSDS applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to determine the suitability and completeness of this information for his/her own particular use. No warranty is implied regarding the accuracy of the data or the results to be obtained from the products use.