

# Safety Data Sheet

## Lead Acetate, 1 M

**CAROLINA**<sup>®</sup>  
www.carolina.com

### Section 1 Product Description

**Product Name:** Lead Acetate, 1 M  
**Recommended Use:** Science education applications  
**Synonyms:** N/A  
**Distributor:** Carolina Biological Supply Company  
2700 York Road, Burlington, NC 27215  
1-800-227-1150  
**Chemical Information:** 800-227-1150 (8am-5pm (ET) M-F)  
**Chemtrec:** 800-424-9300 (Transportation Spill Response 24 hours)

### Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

**DANGER**



May damage fertility or the unborn child. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

**GHS Classification:**

Reproductive Toxicity Category 1A, Hazardous to the aquatic environment - Acute Category 1, Hazardous to the aquatic environment - Chronic Category 1

**Other Safety Precautions:** IF exposed or concerned: Get medical advice/attention.

**Acute Toxicity Dermal Contains** 37.93 % of the mixture consists of ingredient(s) of unknown toxicity  
**Acute Toxicity Inhalation Vapor Contains** 37.93 % of the mixture consists of ingredient(s) of unknown toxicity  
**Acute Toxicity Inhalation Dust/Mist Contains** 37.93 % of the mixture consists of ingredient(s) of unknown toxicity

### Section 3 Composition / Information on Ingredients

| <u>Chemical Name</u>     | <u>CAS #</u> | <u>%</u> |
|--------------------------|--------------|----------|
| Water                    | 7732-18-5    | 62.07    |
| Lead acetate, trihydrate | 6080-56-4    | 37.93    |

### Section 4 First Aid Measures

**Emergency and First Aid Procedures**

**Inhalation:** In case of accident by inhalation: remove casualty to fresh air and keep at rest.  
**Eyes:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
**Skin Contact:** After contact with skin, wash immediately with plenty of water.  
**Ingestion:** If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

### Section 5 Firefighting Procedures

**Extinguishing Media:** Use media suitable to extinguish surrounding fire.  
**Fire Fighting Methods and Protection:** Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.  
**Fire and/or Explosion Hazards:** N/A  
**Hazardous Combustion Products:** Carbon oxides, Metal Oxides,

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## Section 6 Spill or Leak Procedures

### Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Avoid dusting. Avoid breathing dust/fume/gas/mist/vapors/spray. Ventilate the contaminated area. Isolate area. Keep unnecessary personnel away. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Vacuum or sweep up material and place in a disposal container. Contain the discharged material. Do not allow the spilled product to enter public drainage system or open waterways. Collect spillage.

## Section 7 Handling and Storage

**Handling:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid release to the environment. Use personal protective equipment as required. Avoid contact with skin and eyes. Do not breathe gas/fumes/vapor/spray.

**Storage:** Store locked up. Keep container tightly closed in a cool, well-ventilated place.

**Storage Code:** Blue - Toxic. Store separately in a secured area.

## Section 8 Protection Information

| Chemical Name     | ACGIH |        | OSHA PEL |        |
|-------------------|-------|--------|----------|--------|
|                   | (TWA) | (STEL) | (TWA)    | (STEL) |
| No data available | N/A   | N/A    | N/A      | N/A    |

### Control Parameters

**Engineering Measures:** Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.

**Personal Protective Equipment (PPE):** Lab coat, apron, eye wash, safety shower.

**Respiratory Protection:** No respiratory protection required under normal conditions of use. Wear a NIOSH approved respirator if any exposure is possible.

**Respirator Type(s):** NIOSH approved air purifying respirator with dust/mist filter.

**Eye Protection:** Wear chemical splash goggles when handling this product. Have an eye wash station available.

**Skin Protection:** Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

**Gloves:** Nitrile

## Section 9 Physical Data

|  |   |
|--|---|
| <b>Formula:</b> Pb(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub> | <b>Vapor Pressure:</b> Approx. 14 mmHg              |
| <b>Molecular Weight:</b> N/A   | <b>Evaporation Rate (BuAc=1):</b> < 1               |
| <b>Appearance:</b> Colorless Liquid  | <b>Vapor Density (Air=1):</b> 0.7                   |
| <b>Odor:</b> None  | <b>Specific Gravity:</b> Approx. 1.1                |
| <b>Odor Threshold:</b> No data available                                       | <b>Solubility in Water:</b> Soluble                 |
| <b>pH:</b> No data available   | <b>Log Pow (calculated):</b> No data available      |
| <b>Melting Point:</b> 75 C   | <b>Autoignition Temperature:</b> No data available  |
| <b>Boiling Point:</b> 100 C  | <b>Decomposition Temperature:</b> No data available |
| <b>Flash Point:</b> No data available  | <b>Viscosity:</b> No data available                 |
| <b>Flammable Limits in Air:</b> N/A  | <b>Percent Volatile by Volume:</b> 62.07%           |

## Section 10 Reactivity Data

**Reactivity:** No data available

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**Chemical Stability:** Stable under normal conditions.  
**Conditions to Avoid:** None known.  
**Incompatible Materials:** Water-reactive materials, Strong acids, Strong oxidizing agents  
**Hazardous Decomposition Products:** Metal Oxides, , Carbon oxides  
**Hazardous Polymerization:** Will not occur

## Section 11 Toxicity Data

**Routes of Entry:** Inhalation, Ingestion, and Skin contact.  
**Symptoms (Acute):** N/A  
**Delayed Effects:** No data available

### Acute Toxicity:

| Chemical Name            | CAS Number | Oral LD50                    | Dermal LD50 | Inhalation LC50 |
|--------------------------|------------|------------------------------|-------------|-----------------|
| Water                    | 7732-18-5  | Oral LD50 Rat<br>90000 mg/kg |             |                 |
| Lead acetate, trihydrate | 6080-56-4  | Oral LD50 Rat<br>4665 mg/kg  |             |                 |

### Carcinogenicity:

| Chemical Name            | CAS Number | IARC       | NTP    | OSHA       |
|--------------------------|------------|------------|--------|------------|
| Lead acetate, trihydrate | 6080-56-4  | Not listed | Listed | Not listed |

### Chronic Effects:

**Mutagenicity:** No evidence of a mutagenic effect.  
**Teratogenicity:** Evidence of a teratogenic effect (birth defect).  
**Sensitization:** No evidence of a sensitization effect.  
**Reproductive:** Evidence of negative reproductive effects.  
**Target Organ Effects:**  
**Acute:** See Section 2  
**Chronic:** Mutation data cited., Reproductive data cited., Certain components or species of this product are considered potential carcinogens.

## Section 12 Ecological Data

**Overview:** Severe ecological hazard. This product may be toxic to plants and/or wildlife. Keep out of waterways.  
**Mobility:** No data  
**Persistence:** No data  
**Bioaccumulation:** No data  
**Degradability:** No data  
**Other Adverse Effects:** No data

| Chemical Name | CAS Number | Eco Toxicity      |
|---------------|------------|-------------------|
| Water         | 7732-18-5  | No data available |

## Section 13 Disposal Information

**Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.  
**Waste Disposal Code(s):** Not Determined

## Section 14 Transport Information

**Ground - DOT Proper Shipping Name:** UN3082; RQ, Environmentally Hazardous Substances, Liquid, N.O.S., (Lead Acetate); 9; III; Not regulated in equal to or less than 4.539 kg; RQ: 4.54 kg  
**Air - IATA Proper Shipping Name:** UN3082; RQ, Environmentally Hazardous Substances, Liquid, N.O.S., (Lead Acetate); 9; III; Not regulated in equal to or less than 4.539 kg; RQ: 4.54 kg

## Section 15 Regulatory Information

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**TSCA Status:** All components in this product are on the TSCA Inventory.

| Chemical Name     | CAS Number | § 313 Name | § 304 RQ | CERCLA RQ | § 302 TPQ | CAA 112(2) TQ |
|-------------------|------------|------------|----------|-----------|-----------|---------------|
| No data available |            | No         | No       | No        | No        | No            |

**California Prop 65:** WARNING: This product contains a chemical known to the state of California to cause cancer and birth defects or other reproductive harm.

## Section 16 Additional Information

**Revised: 09/09/2015**

**Replaces: 09/03/2014**

**Printed: 10-29-2015**

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

### Glossary

|        |   |      |   |
|--------|---|------|---|
| ACGIH  | American Conference of Governmental Industrial Hygienists             | NTP  | National Toxicology Program                   |
| CAS    | Chemical Abstract Service Number                                      | OSHA | Occupational Safety and Health Administration |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act | PEL  | Permissible Exposure Limit                    |
| DOT    | U.S. Department of Transportation                                     | ppm  | Parts per million                             |
| IARC   | International Agency for Research on Cancer                           | RCRA | Resource Conservation and Recovery Act        |
| N/A    | Not Available   | SARA | Superfund Amendments and Reauthorization Act  |
|        |   | TLV  | Threshold Limit Value                         |
|        |   | TSCA | Toxic Substances Control Act                  |
|        |   | IDLH | Immediately dangerous to life and health      |