

## SAFETY DATA SHEET

### SECTION 1: Identification

#### 1.1. Product Identifier

**Product Name:** Lead Acetate, 5% (w/v)  
**CAS Number:** See section 3

#### 1.2. Recommended Use and Restrictions on Use

General Laboratory Reagent

#### 1.3. Details of the Supplier of the Safety Data Sheet

Company

Lab Alley, LLC  
12501 Pauls Valley Road, Suite A,  
Austin, TX 78737 U.S.A

Telephone 512-668-9918

Fax 512-886-4008

#### 1.4. Emergency Telephone Number (24 hours)

**Emergency Phone #** US & Canada: 1-800-535-5053 INFOTRACK  
International 1-352-323-3500 INFOTRACK

## SECTION 2: Hazard(s) Identification

### 2.1. Classification of the Substance or Mixture

For the full text of the Hazard and Precautionary Statements listed below, see Section 16.

Hazard Class	Category	Hazard Statements	Precautionary Statements:
Respiratory Sensitizer	Category 1	H334	P261, P285, P304+P341, P342+P311, P501
Germ Cell Mutagenicity	Category 2	H341	P201, P202, P280, P308+P313, P405, P501
Carcinogenicity	Category 2	H351	P201, P202, P280, P308+P313, P405, P501
Reproductive Toxicity	Category 1	H360	P201, P202, P280, P308+P313, P405, P501
Specific Target Organs/Systemic Toxicity Following Single Exposure	Category 1	H370	P260, P264, P270, P307+P311, P321, P405, P501
Specific Target Organs/Systemic Toxicity Following Repeated Exposure	Category 1	H372	P260, P264, P270, P314, P501
Hazardous to the Aquatic Environment (Acute)	Category 2	H401	P273, P501
Hazardous to the Aquatic Environment (Chronic)	Category 2	H411	P273, P391, P501

### 2.2. GHS Label Elements

Pictograms:



Signal Word: **Danger**

Hazard Statements:

Hazard Number	Hazard Statement
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

## Precautionary Statements:

Precautionary Number	Precautionary Statement
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe fumes, mist, vapors, or spray.
P261	Avoid breathing fumes, mist, vapors, or spray.
P264	Wash arms, hands and face thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves and eye protection.
P285	In case of inadequate ventilation wear respiratory protection.
P304+P341	IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
P307+P311	IF exposed: Call a POISON CENTER or physician.
P308+P313	IF exposed or concerned: Get medical attention.
P314	Get medical attention if you feel unwell.
P321	Specific treatment (Wash areas of contact with water).
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER or physician.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents in accordance with local, state, federal and international regulations.

## 2.4. Hazards not Otherwise Classified or Covered by GHS

Data not available.

## SECTION 3: Composition / Information on Ingredients

### 3.1. Components of Substance or Mixture

Chemical Name	Formula	Molecular Weight	CAS Number	Weight%
Water	H <sub>2</sub> O	18.01 g/mol	7732-18-5	95.04
Lead Acetate Trihydrate	Pb(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub> ·3H <sub>2</sub> O	379.33 g/mol	6080-56-4	4.85
Acetic Acid	CH <sub>3</sub> COOH	60.05 g/mol	64-19-7	0.10

## SECTION 4: First-Aid Measures

### 4.1. General First Aid Information

**Eye Contact:** May cause irritation, redness, pain, and tearing.

**Inhalation:** IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

**Skin Contact:** May cause irritation, redness and pain. May be absorbed through skin on prolonged exposure.

**Ingestion:** Dilute with water or milk. Do not induce vomiting for small amounts. Call a physician if necessary. For large amounts, induce vomiting and call a physician.

#### **4.2. Most Important Symptoms and Effects, Acute and Delayed**

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing genetic defects. Suspected of causing cancer. May damage fertility or the unborn child. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure. Toxic! Ingestion poses no real toxic effect in small amounts, but repeated (chronic) ingestion can cause serious problems subsequent to lead poisoning. Ingestion may cause nausea. If ingested, dilute with water, induce vomiting then call a physician. May cause irritation to the skin and eyes. Wash areas of contact with plenty of water. Acute poisoning is rare by any route of exposure. **EYE CONTACT:** May cause irritation, redness, pain, and tearing. **SKINCONTACT:** May cause irritation, redness and pain. May be absorbed through skin on prolonged exposure. **CHRONIC EFFECTS / CARCINOGENICITY:** Lead accumulates in bone and teeth on prolonged or repeated exposure.

#### **4.3. Medical Attention or Special Treatment Needed**

Specific treatment (Wash areas of contact with water).

### **SECTION 5: Fire-Fighting Measures**

#### **5.1. Extinguishing Media**

Use any means suitable for extinguishing surrounding fire.

#### **5.2. Specific Hazards Arising from the Substance or Mixture**

Not considered to be a fire or explosion hazard.

#### **5.3. Special Protective Equipment for Firefighters**

Use protective clothing and NIOSH-approved breathing equipment appropriate for the surrounding fire.

### **SECTION 6: Accidental Release Measures**

#### **6.1. Personal Precautions, Protective Equipment and Emergency Procedures**

Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection.

#### **6.2. Cleanup and Containment Methods and Materials**

Do not flush to sewer. Absorb with suitable material. Containerize for disposal with a hazardous waste disposal facility. Dispose of in accordance with local regulations.

### **SECTION 7: Handling and Storage**

#### **7.1. Precautions for Safe Handling and Storage Conditions**

Store locked up. As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage.

## SECTION 8: Exposure Controls / Personal Protection

### 8.1 Control Parameters

Chemical Name	Limit Type	Country	Exposure Limit	Information Source
Acetic Acid (64-19-7)	TWA	USA	10 ppm TWA; 25 mg/m <sup>3</sup> TWA	U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)
Acetic Acid (64-19-7)	TLV-STEL	USA	15 ppm STEL	ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL)
Acetic Acid (64-19-7)	TLV-TWA	USA	10 ppm TWA	ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)

### 8.2. Exposure Controls

**Engineering Controls:** No specific controls are needed. Normal room ventilation is adequate.

**Respiratory Protection:** In case of inadequate ventilation wear respiratory protection. Normal room ventilation is adequate.

**Skin Protection:** Wear protective gloves and eye protection. Chemical resistant gloves.

**Eye Protection:** Wear protective gloves and eye protection. Safety glasses or goggles.

### 8.3. Personal Protective Equipment

Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection. Normal room ventilation is adequate. Chemical resistant gloves. Safety glasses or goggles.

## SECTION 9: Physical and Chemical Properties

### 9.1. Basic Physical and Chemical Properties

**Appearance:** Colorless liquid

**Physical State:** Liquid

**Odor:** Data not available.

**Odor Threshold:** Data not available.

**pH:** Data not available.

**Melting/Freezing Point:** Approximately 0°C

**Initial Boiling Point/Range:** Approximately 100°C - Approximately 100°C

**Flash Point:** Data not available.

**Evaporation Rate:** Data not available.

**Flammability:** Data not available.

**Flammability/Explosive Limits:** Data not available.

**Vapor Pressure:** Data not available.

**Vapor Density:** Data not available.

**Relative Density:** 1.03

**Solubility:** Miscible

**Partition Coefficient:** Data not available.

**Auto-Ignition Temperature:** Data not available.

**Decomposition Temperature:** Data not available.

**Viscosity:** Data not available.

**Explosive Properties:** Data not available.

**Oxidizing Properties:** Data not available.

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity and Chemical Stability

Stable under normal conditions of use and storage.

### 10.2. Possibility of Hazardous Reactions

Data not available.

### 10.3. Conditions to Avoid and Incompatible Materials

Strong oxidizers, acids, Hydrogen Peroxide, Sulfites, Ammonium Thiocyanate.

### 10.4. Hazardous Decomposition Products

Will not occur.

## SECTION 11: Toxicological Information

### 11.1. Information on Toxicological Effects

**Acute Toxicity - Oral Exposure:**

Not applicable.

**Acute Toxicity - Dermal Exposure:**

Not applicable.

**Acute Toxicity - Inhalation Exposure:**

Not applicable.

**Acute Toxicity - Other Information:**

LD50, Oral, Rat: (Lead Acetate, Trihydrate) 4665 mg/kg, (Acetic Acid) 3310 mg/kg, details of toxic effects not reported other than lethal dose value. Investigated as a tumorigen and mutagen.

**Skin Corrosion and Irritation:**

Not applicable.

**Serious Eye Damage and Irritation:**

Not applicable.

**Respiratory Sensitization:**

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Avoid breathing fumes, mist, vapors, or spray. In case of inadequate ventilation wear respiratory protection. IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or physician. Dispose of contents in accordance with local, state, federal and international regulations.

**Skin Sensitization:**

Not applicable.

**Germ Cell Mutagenicity:**

Suspected of causing genetic defects. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

**Carcinogenicity:**

Suspected of causing cancer. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

**Reproductive Toxicity:**

May damage fertility or the unborn child. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection. IF exposed or concerned: Get medical attention. Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

**Specific Target Organ Toxicity from Single Exposure:**

Causes damage to organs. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. IF exposed: Call a POISON CENTER or physician. Specific treatment (Wash areas of contact with water). Store locked up. Dispose of contents in accordance with local, state, federal and international regulations.

**Specific Target Organ Toxicity from Repeated Exposure:**

Causes damage to organs through prolonged or repeated exposure. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Get medical attention if you feel unwell. Dispose of contents in accordance with local, state, federal and international regulations.

**Aspiration Hazard:**

Not applicable.

**Additional Toxicology Information:**

Data not available.

## SECTION 12: Ecological Information

### 12.1. Ecotoxicity

Toxic to aquatic life. Avoid release to the environment. Dispose of contents in accordance with local, state, federal and international regulations. Toxic to aquatic life with long lasting effects. Avoid release to the environment. Collect spillage. Dispose of contents in accordance with local, state, federal and international regulations.

### 12.2. Persistence and Degradability

Data not available.

### 12.3. Bio accumulative Potential

Data not available.

### 12.4. Mobility in Soil

Data not available.

### 12.5. Other Adverse Ecological Effects

Data not available.

## SECTION 13: Disposal Considerations

### 13.1. Waste Treatment Methods

Data not available.



## **SECTION 14: Transportation Information**

### **14.1. Transportation by Land-Department of Transportation (DOT, United States of America)**

Not regulated according to DOT Regulations.

### **14.2. Transportation by Air - International Air Transport Association (IATA)**

Not regulated according to IATA Dangerous Goods Regulations.

### **14.3 Transportation of Dangerous Goods (TDG, Canada)**

Not regulated according to TDG Regulation

## SECTION 15: Regulatory Information

### 15.1. Occupational Safety and Health Administration (OSHA) Hazards

Not listed.

### 15.2. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances

Not listed.

### 15.3. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals

Lead Acetate Trihydrate (CAS # 6080-56-4): 10 lb final RQ; 4.54 kg final RQ

Acetic Acid (CAS # 64-19-7): 5000 lb final RQ; 2270 kg final RQ

### 15.4. Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI)

Lead Acetate Trihydrate (CAS # 6080-56-4): 1.0 % Supplier notification limit (listed under Chemical Category N420)

Lead Acetate Trihydrate (CAS # 6080-56-4): 100 lb RT

### 15.5. Massachusetts Right-to-Know Substance List

Lead Acetate Trihydrate (CAS # 6080-56-4): Carcinogen; Extraordinarily hazardous

Acetic Acid (CAS # 64-19-7): Present

### 15.6. Pennsylvania Right-to-Know Hazardous Substances

Lead Acetate Trihydrate (CAS # 6080-56-4): Environmental hazard

Lead Acetate Trihydrate (CAS # 6080-56-4): Environmental hazard; Special hazardous substance  
Lead Acetate Trihydrate (CAS # 6080-56-4): Present

Acetic Acid (CAS # 64-19-7): Environmental hazard

Acetic Acid (CAS # 64-19-7): Present

Water (CAS # 7732-18-5): Present

### 15.7. New Jersey Worker and Community Right-to-Know Components

Lead Acetate Trihydrate (CAS # 6080-56-4): carcinogen

Lead Acetate Trihydrate (CAS # 6080-56-4): carcinogen; teratogen

Lead Acetate Trihydrate (CAS # 6080-56-4): sn 1097

Lead Acetate Trihydrate (CAS # 6080-56-4): sn 2266

Lead Acetate Trihydrate (CAS # 6080-56-4): SN 2266 500 lb TPQ (Category Code N420. Includes any unique chemical substance that contains the named metal as part of that chemical structure)

Acetic Acid (CAS # 64-19-7): corrosive

Acetic Acid (CAS # 64-19-7): sn 0004

### 15.8. California Proposition 65

Lead Acetate Trihydrate (CAS # 6080-56-4): 23 µg/day NSRL (oral)

Lead Acetate Trihydrate (CAS # 6080-56-4): carcinogen, 1/1/1988

Lead Acetate Trihydrate (CAS # 6080-56-4): carcinogen, 10/1/1992

## 15.9. Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

Lead Acetate Trihydrate (CAS # 6080-56-4): Present  
(DSL) Acetic Acid (CAS # 64-19-7): Present (DSL)  
Acetic Acid (CAS # 64-19-7): Present (NDSL)  
Water (CAS # 7732-18-5): Present (DSL)

## 15.10. United States of America Toxic Substances Control Act (TSCA) List

Lead Acetate Trihydrate (CAS # 6080-56-4): Present  
Acetic Acid (CAS # 64-19-7): Present  
Water (CAS # 7732-18-5): Present

## 15.11. European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)

Lead Acetate Trihydrate (CAS # 6080-56-4): 206-104-4  
Acetic Acid (CAS # 64-19-7): 200-580-7  
Acetic Acid (CAS # 64-19-7): 212-059-1  
Acetic Acid (CAS # 64-19-7): 214-693-4  
Acetic Acid (CAS # 64-19-7): 273-079-4  
Water (CAS # 7732-18-5): 231-791-2  
Water (CAS # 7732-18-5): 232-148-9

## SECTION 16: Other Information

### 16.1. Full Text of Hazard Statements and Precautionary Statements

May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing genetic defects. Suspected of causing cancer. May damage fertility or the unborn child. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves and eye protection. In case of inadequate ventilation wear respiratory protection.

IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. IF exposed: Call a POISON CENTER or physician. Get medical attention if you feel unwell. Specific treatment (Wash areas of contact with water). If experiencing respiratory symptoms: Call a POISON CENTER or physician. Collect spillage.

Store locked up.

Dispose of contents in accordance with local, state, federal and international regulations.

## 16.2. Miscellaneous Hazard Classes

**Canadian Carcinogenicity Hazard Class:** Not Applicable.

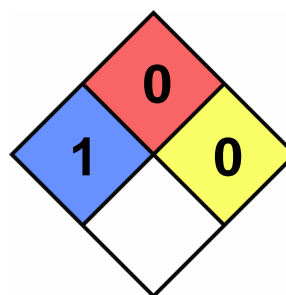
**Physical Hazards Not Otherwise Classified (PHNOC):** Not Applicable.

**Health Hazards Not Otherwise Classified (HHNOC):** Not Applicable.

**Biohazardous Infectious Materials Hazard Class:** Not Applicable.

## 16.3. National Fire Protection Association (NFPA) Rating

**Health:** 1  
**Flammability:** 0  
**Reactivity:** 0  
**Special Hazard:**



## 16.4. Document issued on

**Date of Issue:** 04/08/2024

## SECTION 17: DISCLAIMER

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.