



## Lead Acetate trihydrate

### Section 1: Chemical Product and Company Identification

**Product Name:** Lead Acetate trihydrate

Catalog Codes: 715

Synonym: Lead Acetate; Lead (II) trihydrate;  
Acetic acid lead (II) salt, trihydrate

Chemical Name: Lead Acetate trihydrate

Chemical Formula:  $Pb(CH_3COO)_2 \cdot 3H_2O$

**Contact Information:**

Expresolv Ltd.

Plot No.54 Survey No.108/P Ozone Industrial Park

Phase-2, Bavla-Bagodara highway, Village: Bhayla

Ta: Bavla, Dist.: Ahmedabad, Gujarat, PIN:382220

Phone: +91-7069552255, email: [info@expresolv.com](mailto:info@expresolv.com)

CIN No.: U51909GJ2016PLC092972

### Section 2: Composition and Information on Ingredients

**Composition:**

| Name                    | CAS No.   | % by Weight |
|-------------------------|-----------|-------------|
| Lead Acetate trihydrate | 6080-56-4 | 100%        |

**Toxicological Data on Ingredients:**

Lead Acetate trihydrate: ORAL (LD50): Acute: 1230 mg/kg [Rat]. 1360 mg/kg [Mouse]. 1040 mg/kg [Rabbit]. DERMAL (LD50): Acute: 2000 mg/kg [Rabbit].

### Section 3: Hazards Identification

**Potential Acute Health Effects:**

Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator), of ingestion.

**Potential Chronic Health Effects:**

Slightly hazardous in case of skin contact (sensitizer). CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to liver, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.

### Section 4: First Aid Measures

**Eye Contact:**

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention.

**Skin Contact:**

In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

**Serious Skin Contact:**

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Serious Inhalation:** Not available.

**Ingestion:**

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

**Serious Ingestion:** Not available.

**Section 5: Fire and Explosion Data**

**Flammability of the Product:** May be combustible at high temperature.

**Auto-Ignition Temperature:** Not available

**Flash Points:** Not available

**Flammable Limits:** Not available.

**Products of Combustion:** These products are carbon oxides (CO, CO<sub>2</sub>).

**Fire Hazards in Presence of Various Substances:** Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.

**Explosion Hazards in Presence of Various Substances:**

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

**Fire Fighting Media and Instructions:**

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

**Special Remarks on Fire Hazards:** Not available.

**Special Remarks on Explosion Hazards:** Not available.

**Section 6: Accidental Release Measures****Small Spill:**

Use appropriate tools to put the spilled solid in a convenient waste disposal container.

**Large Spill:**

Use a shovel to put the material into a convenient waste disposal container. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

**Section 7: Handling and Storage****Precautions:**

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, acids.

**Storage:**

Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Sensitive to light. Store in light-resistant containers.

## Section 8: Exposure Controls/Personal Protection

### Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### Personal Protection:

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

### Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist Before handling this product.

### Exposure Limits:

TWA: 10 from AIHA [United States] TWA: 44.2 (mg/m<sup>3</sup>) from AIHA [United States] Consult local authorities for acceptable exposure limits.

## Section 9: Physical and Chemical Properties

**Physical state and appearance:** Solid. (Crystalline solid.)

**Odour:** Acetic (Slight.)

**Taste:** NA

**Molecular Weight:** 379.32 g/mole

**Colour:** White.

**PH (1% soln/water):** Not available.

**Boiling Point:** Decomposition temperature: 100°C (212°F)

**Melting Point:** 75°C (167°F)

**Critical Temperature:** Not available.

**Specific Gravity:** 2.55 (Water = 1)

**Vapour Pressure:** Not applicable.

**Vapour Density:** Not available.

**Volatility:** Not available.

**Odour Threshold:** NA

**Ionicity (in Water):** Not available.

**Dispersion Properties:** See solubility in water,

**Solubility:** Soluble in cold water.

## Section 10: Stability and Reactivity Data

**Stability:** The product is stable.

**Instability Temperature:** Not available.

**Conditions of Instability:** Excess heat, and incompatible materials

**Incompatibility with various substances:** Reactive with acids..

**Corrosivity:** Non-corrosive in presence of glass.

**Special Remarks on Reactivity:** Incompatible with Bromates, Phenol Chloral Hydrate, sulphides, and acids.

**Special Remarks on Corrosivity:** Will attack some plastics.

**Polymerization:** Will not occur.

## Section 11: Toxicological Information

**Routes of Entry:** Absorbed through skin. Inhalation. Ingestion.

**Toxicity to Animals:**

Acute oral toxicity (LD50): 4665 mg/kg [Rat].

**Chronic Effects on Humans:**

MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. May cause damage to the following organs: liver, central nervous system (CNS).

**Other Toxic Effects on Humans:**

Hazardous in case of skin contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).

**Special Remarks on Toxicity to Animals: NA**

**Special Remarks on Chronic Effects on Humans:**

May affect genetic material (mutagenic). May cause adverse reproductive effects based on animal test data. No human data found at this point.

**Special Remarks on other Toxic Effects on Humans:**

Acute Potential Health Effects: Skin: Causes skin irritation, redness, pain. It may cause tissue injury. It may be absorbed through the skin with symptoms similar to that of ingestion. Eyes: Causes eye irritation, redness, pain. May cause eye injury. Eye contact produces immediate smarting, but there is no permanent injury if exposure is brief. Inhalation: Mist or vapours cause respiratory tract (nose, throat), irritation. Symptoms may include coughing, shortness of breath. It may be absorbed into the blood stream with symptoms similar to ingestion. Ingestion: May be harmful if swallowed. Ingestion of large doses may cause abdominal pain, nausea, vomiting, diarrhoea. It may affect behaviour/central nervous system and cause headache, somnolence, excitement, dizziness, ataxia, coma, convulsions, and other symptoms of central nervous system depression. It may also affect respiration (paralysis of the respiratory centre, respiratory depression, gasping respirations), cardiovascular system (hypotension). Chronic Potential Health Effects: Skin: Prolonged or repeated exposure may cause allergic contact dermatitis. Ingestion: Prolonged or repeated ingestion may affect behaviour/central nervous system with symptoms similar to acute ingestion. It may also affect the liver, kidneys, cardiovascular system, and metabolism (weight loss).

## Section 12: Ecological Information

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Products of Biodegradation:**

Possibly hazardous short-term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The product itself and its products of degradation are not toxic

**Special Remarks on the Products of Biodegradation:** Not available.

## Section 13: Disposal Considerations

**Waste Disposal:**

Waste must be disposed of in accordance with federal, state and local environmental control regulations

## Section 14: Transport Information

### UN number

ADR/RID: - 1616

IMDG: - 1616

IATA: 1616

### UN proper shipping name

ADR/RID: Lead Acetate trihydrate

IMDG: Lead Acetate trihydrate

IATA: Lead Acetate trihydrate)

### Transport hazard class(es)

ADR/RID: - 6.1

IMDG: - 6.1

IATA: 6.1

### Packaging group

ADR/RID: - III

IMDG: - III

IATA: III

### Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

**Special precautions for user:** No data available

Further information : No data available

## Section 15: Other Regulatory Information

### Federal and State Regulations:

Pennsylvania RTK: Lead Acetate trihydrate Minnesota: Lead Acetate trihydrate Massachusetts RTK: Lead Acetate trihydrate TSCA 8(b) inventory: Lead Acetate trihydrate

### Other Regulations:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

### Other Classifications:

#### WHMIS (Canada):

CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F). CLASS D-2B: Material causing other toxic effects (TOXIC).

#### DSCL (EEC):

R20/22- Harmful by inhalation and if swallowed. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

#### HMIS (U.S.A.):

**Health Hazard:** 2

**Fire Hazard:** 1

**Reactivity:** 0

**Personal Protection:** h

#### National Fire Protection Association (U.S.A.):

**Health:** 2

**Flammability:** 1

**Reactivity:** 0

**Specific hazard:**

**Protective Equipment:**

Gloves. Lab coat. Vapour respirator. Be sure to use an

#### **Section 16: Other Information**

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall *Expresolv Ltd* be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages.

**Updated On:** 01<sup>st</sup> June 2023.

Expresolv