



# Material Safety Data Sheet

<b>NFPA</b>  	<b>HMIS</b>  <table border="1" style="margin: auto;"> <tr><td style="text-align: right;">Health Hazard</td><td style="text-align: center;">2</td></tr> <tr><td style="text-align: right;">Physical Hazard</td><td style="text-align: center;">1</td></tr> <tr><td style="text-align: right;">Reactivity</td><td style="text-align: center;">0</td></tr> </table>	Health Hazard	2	Physical Hazard	1	Reactivity	0	<b>Personal Protective Equipment</b>    See Section 15.
Health Hazard	2							
Physical Hazard	1							
Reactivity	0							

**Section 1. Chemical Product and Company Identification** Page Number: 1

<b>Common Name/Trade Name</b> <b>Lead acetate trihydrate</b>	<b>CAS#</b> 6080-56-4
<b>Manufacturer</b> ProChem, Inc. 826 Roosevelt Rd Rockford, IL 61109	<b>RTECS</b> OF8050000  <b>TSCA</b> TSCA 8(b) inventory: No products were found.
<b>Commercial Name(s)</b> Not available.	<b>CI#</b> Not available.
<b>Synonym</b> Lead Acetate; Lead (II) trihydrate; Acetic acid lead (II) salt, trihydrate	<b>IN CASE OF EMERGENCY</b> <b>CHEMTREC (24hr) 800-424-9300</b>  <b>CALL 815-398-1788</b>
<b>Chemical Name</b> Lead Acetate Trihydrate	
<b>Chemical Family</b> Not available.	
<b>Chemical Formula</b> Pb(CH <sub>3</sub> COO) <sub>2</sub> ·3H <sub>2</sub> O	
<b>Supplier</b>	

**Section 2. Composition and Information on Ingredients**

Name	CAS #	Exposure Limits			% by Weight
		TWA (mg/m <sup>3</sup> )	STEL (mg/m <sup>3</sup> )	CEIL (mg/m <sup>3</sup> )	
1) Lead acetate trihydrate	6080-56-4	0.15			100

<b>Toxicological Data on Ingredients</b>	<b>Lead acetate trihydrate:</b> ORAL (LD50):      Acute: 4665 mg/kg [Rat].
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**Section 3. Hazards Identification**

<b>Potential Acute Health Effects</b>	Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).
<b>Potential Chronic Health Effects</b>	Hazardous in case of skin contact (permeator), of ingestion, of inhalation. <b>CARCINOGENIC EFFECTS:</b> Classified 2B (Possible for human.) by IARC. <b>MUTAGENIC EFFECTS:</b> Classified POSSIBLE for human. <b>TERATOGENIC EFFECTS:</b> Classified POSSIBLE for human. <b>DEVELOPMENTAL TOXICITY:</b> Classified Reproductive system/toxin/female, Reproductive system/toxin/male [POSSIBLE]. The substance is toxic to blood, kidneys, the nervous system. The substance may be toxic to the reproductive system. 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. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. 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 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	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. Seek medical attention.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.
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> ). Some metallic oxides.
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**

<b>Precautions</b>	Keep locked up.. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. 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 acids.
<b>Storage</b>	Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 24°C (75.2°F).

**Section 8. Exposure Controls/Personal Protection**

<b>Engineering Controls</b>	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.
<b>Personal Protection</b>	Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
<b>Personal Protection in Case of a Large Spill</b>	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.
<b>Exposure Limits</b>	TWA: 0.05 (mg (Pb)/m <sup>3</sup> ) from OSHA (PEL) [United States] TWA: 0.15 (mg/m <sup>3</sup> ) from ACGIH (TLV) [United States]  Consult local authorities for acceptable exposure limits.

**Section 9. Physical and Chemical Properties**

<b>Physical state and appearance</b>	Solid. (Crystalline solid.)	<b>Odor</b>	Acetic (Slight.)
<b>Molecular Weight</b>	379.32 g/mole	<b>Taste</b>	Not available.
<b>pH (1 % soln/water)</b>	Not available.	<b>Color</b>	White.
<b>Boiling Point</b>	Decomposition temperature: 100°C (212°F)		
<b>Melting Point</b>	75°C (167°F)		
<b>Critical Temperature</b>	Not available.		
<b>Specific Gravity</b>	2.55 (Water = 1)		
<b>Vapor Pressure</b>	Not applicable.		
<b>Vapor Density</b>	Not available.		
<b>Volatility</b>	Not available.		
<b>Odor Threshold</b>	Not available.		
<b>Water/Oil Dist. Coeff.</b>	Not available.		
<b>Ionicity (in Water)</b>	Not available.		
<b>Dispersion Properties</b>	See solubility in water.		
<b>Solubility</b>	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	Not available.
Special Remarks on Reactivity	Incompatible with Bromates, Phenol Chloral Hydrate, sulfides, and acids.
Special Remarks on Corrosivity	Not available.
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	<p><b>CARCINOGENIC EFFECTS:</b> Classified 2B (Possible for human.) by IARC.</p> <p><b>MUTAGENIC EFFECTS:</b> Classified POSSIBLE for human.</p> <p><b>TERATOGENIC EFFECTS:</b> Classified POSSIBLE for human.</p> <p><b>DEVELOPMENTAL TOXICITY:</b> Classified Reproductive system/toxin/female, Reproductive system/toxin/male [POSSIBLE].</p> <p>Causes damage to the following organs: blood, kidneys, the nervous system.</p> <p>May cause damage to the following organs: the reproductive system.</p>
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	Not available.
Special Remarks on Chronic Effects on Humans	<p>May affect genetic material based on animal data</p> <p>May cause cancer (tumorigenic) based on animal data.</p> <p>May cause adverse reproductive effects (female/male fertility and other female/male effects) and birth defects based on animal data.</p> <p>Passes through the placental barrier in animal. Excreted in maternal milk in animal.</p>
Special Remarks on other Toxic Effects on Humans	<p>Acute Potential Health Effects:</p> <p>Skin: May cause severe local irritation.</p> <p>Eyes: May cause local irritation or abrasion. Lead acetate can produce encrustation of the cornea with direct eye exposure.</p> <p>Inhalation: Can be absorbed through the respiratory system. May cause respiratory tract irritation (local irritation of the bronchia, and lungs). Symptoms such as metallic taste, chest and abdominal pain, and increased lead blood levels may follow. Also see symptoms of ingestion.</p> <p>Ingestion: May cause gastrointestinal tract irritation. May affect behavior/brain, metabolism, liver, cardiovascular system, urinary system, and blood. Ingestion can result in lead colic, headache, abdominal cramps, nausea, muscle weakness, depression, "lead line" on the gums, metallic taste, loss of appetite, insomnia, dizziness, high lead levels in the blood and urine, with shock, coma and death in extreme cases.</p> <p>Chronic Potential Health Effects:</p> <p>Skin: May be absorbed through the skin on prolonged exposure. See symptoms of ingestion.</p> <p>Ingestion/Inhalation: The hallmarks of chronic lead poisoning are peripheral motor polyneuropathy, ANEMIA, KIDNEY DAMAGE, HYPERTENSION. Also see symptoms of acute poisoning.</p>


**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.
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**Section 14. Transport Information**

DOT Classification	CLASS 6.1: Poisonous material.
Identification	: Lead acetate UNNA: 1616 PG: III
Special Provisions for Transport	Marine Pollutant
DOT (Pictograms)	

**Section 15. Other Regulatory Information and Pictograms**

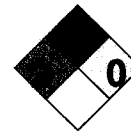
Federal and State Regulations	<p>California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Lead acetate trihydrate</p> <p>California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (female) which would require a warning under the statute: Lead acetate trihydrate</p> <p>California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (male) which would require a warning under the statute: Lead acetate trihydrate</p> <p>California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: Lead acetate trihydrate</p> <p>California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Lead acetate trihydrate</p>						
California Proposition 65 Warnings	<p>California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Lead acetate trihydrate</p> <p>California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: Lead acetate trihydrate</p>						
Other Regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).						
Other Classifications	<table border="0"> <tr> <td>WHMIS (Canada)</td> <td colspan="2">Not controlled under WHMIS (Canada).</td> </tr> <tr> <td>DSCL (EEC)</td> <td>                     R36/38- Irritating to eyes and skin.                      R40- Possible risks of irreversible effects.                      R62- Possible risk of impaired fertility.                      R63- Possible risk of harm to the unborn child.                 </td> <td>                     S2- Keep out of the reach of children.                      S36/37- Wear suitable protective clothing and gloves.                      S46- If swallowed, seek medical advice immediately and show this container or label.                 </td> </tr> </table>	WHMIS (Canada)	Not controlled under WHMIS (Canada).		DSCL (EEC)	R36/38- Irritating to eyes and skin. R40- Possible risks of irreversible effects. R62- Possible risk of impaired fertility. R63- Possible risk of harm to the unborn child.	S2- Keep out of the reach of children. S36/37- Wear suitable protective clothing and gloves. S46- If swallowed, seek medical advice immediately and show this container or label.
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**HMIS (U.S.A.)**

Health Hazard	<b>2</b>
Physical Hazard	<b>1</b>
Reactivity	<b>0</b>
Personal Protection	<b>E</b>

**National Fire Protection Association (U.S.A.)**

Health



Flammability

Reactivity

Specific hazard

**WHMIS (Canada)  
(Pictograms)**



**DSCL (Europe)  
(Pictograms)**



**TDG (Canada)  
(Pictograms)**



**ADR (Europe)  
(Pictograms)**



**Protective Equipment**



Gloves.



Lab coat.



Dust respirator. Be sure to use an approved/certified respirator or equivalent.



Splash goggles.

**Section 16. Other Information**

**References** Not available.

**Other Special Considerations** Not available.

PREPARATION DATE: NOV 2005

**Notice to Reader**

*All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, ProChem Chemicals Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.*