

Material Safety Data Sheet

Emergency Telephone Number 314-982-5000 Mallinckrodt Inc. Science Products Division P.O. Box M Paris, Kentucky 40361

Effective Date: 08-20-85

PRODUCT IDENTIFICATION:

Synonyms: Lead acetate (II) trihydrate; acetic acid lead (II) salt, trihydrate

Formula CAS No.: 6080-56-4 TSCA CAS No.: 301-04-2

Molecular Weight: 379.33

Special Information:

Hazardous Ingredients:

Chemical Formula: Pb(C2H3O2) 3H2O

PRECAUTIONARY MEASURES

POSSIBLE DANGER! MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED. NEUROTOXIN. POSSIBLA CANGER HAZARD BASED ON TESTS WITH LABORATORY ANIMALS. EXPOSURE MAY CREATE A CANGER

Avoid breathing dust.
Keep container closed.
Use with adequate ventilation.
Wash thoroughly after handling.

EMERGENCY/FIRST AID

In all cases call a physician.

If svalloved, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contect, immediately flush skin or eyes with plenty of water for at least 15 minutes. SEE SECTION 5.

DOT Hazard Class: ORM-E

This substance is OSHA Regulated. See section 6.

Physical Data

white crystalline granules. Appearance:

Odor:

Slightly acetic.

60 gm in 100 gm water. Solubility:

Decomposes ca 100°C (212°F) Boiling Point:

Melting Point: 75°C (167°F)

Specific Gravity: 2.55

(mm Hg):No information Vapor Pressure

Vapor Density (Air-1):No information

found

Evaporation Rate: No information found

SECTION 2

Fire and Explosion Information

Fire:

to be a fire hazard. Not considered

Not considered to be an explosion hazard.

Explosion:

Use any means suitable for Fire Extinguishing Media:

extinguishing surrounding

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Lead acetate can produce acetic acid, carbon monoxide, and toxic fumes of lead oxide in fire

SECTION 3

Reactivity Data

Stability:

situations.

Stable under ordinary conditions of use and storage

Decomposition Hazardous I Products:

Toxic fumes of lead or lead oxide and carbon monoxide may be released when heated to

This substance does not polymerize

decomposition.

Hazardous Polymerization:

Incompatibilities:

Bromates, Phenol chloral hydrate, sulfides, and

SECTION 4 Leak/Spill Disposal Information Evacuate unprotected personnel. Clean-up personnel should wear protective clothing and approved respirators for protection from dust. Carefully sweep or vacuum up the spill, avoiding the formation of air-borne particles, and place in a closed container for disposal. Damp or wet cleaning maybe useful in suppressing dust and for the removal of the last traces of spilled material. Recommendations for chemically treating the collected spill are given below. Do not send lead residues to the sewer. Whatever cannot be saved for reclamation may be sent to an RCRC-approved disposal facility.

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If the lead must be made insoluble before disposal, dissolve the residue in water, neutralize if necessary and precipitate the lead as sulfide. Filter and package for discarding. Excess sulfide in the filtrate may be destroyed with hypo-chlorite, and the final solution sent to a waste disposal facility or sewer if local ordinances allow

Reportable Quantity (RQ)(CWA/CERCLA) : 5000 lbs.

Acetate

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Ensure compliance with local, state and federal regulations.

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Health Hazard Information

Exposure/Health Effects

Inhalation:

Lead can be absorbed through the respiratory system. Local irritation of bronchia and lungs can occur and, in cases of acute exposure, symptoms such as metallic taste, chest and abdominal pain, and increased lead blood levels may follow. See also Ingestion.

Ingestion:

abdominal pain and spasms, nausea, vomiting, headache Acute poisoning can lead to muscle weakness, "lead line" on the gums, metallic taste, definite loss of appetite, insomnia, dizziness, high lead levels in blood and urine with shock, coma and death in extreme cases. Soluble lead compounds, e.g., the acetate or

POISON! The symptoms of lead poisoning include

Skin Contact:

Eye Contact:

Absorption can occur through eye tissues but the more

common hazards are local irritation or abrasion.

skin on prolonged exposure; the symptoms of lead poisoning described for ingestion exposure may occur. Contact over short periods may cause severe local

irritation or burns

Lead and lead compounds may be absorbed through the

nitrate, are the most dangerous.

Chronic Exposure:

Aggravation of Pre-existing Conditions:

Inhalation:

Ingestion:

Skin Exposure:

Eye Exposure:

TOXICITY DATA

No LD50/LC50 information found relating to normal routes of occupational exposure. Muration references cited. Tumorigenic effects cited. Carcinogenic determination:

Lead acetate trihydrate: animal positive (IARC, 1,40,72)
Lead acetate: Listed as a carcinogen by The National Toxicology Program (NTP)
Lead and other smelter emissions are human reproductive hazards. (Chemical Council
Environmental Quality; Chemical Hazards to Human Reproduction, 1981)

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Occupational Control Measures

Airborne Exposure Limits:

Ventilation System:

-OSHA Permissible Exposure Limit (PEL): 0.05 mg(Pb)/m³ (TWA)

Acetate

(STEL) -ACGIH Threshold Limit Value (TLV): 0.15 mg(Pb)/m³ (TWA); 0.45 mg(Pb)/m³ A system of local exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the dust or vapor at its source, preventing dispersion of it into the general work area. Please refer to the AGGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, If the PEL is exceeded, a half-mask air-purifying respirator equipped with a high-efficiency filter, or any half-mask supplied air respirator may be worn up to concetrations of 50 mg per cubic meter (1000X PEL). See OSHA Standard for additional information.

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls to prevent skin contact.

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Contact lenses should not be worn when working with this material.

Maintain eye wash fountain and quick-drench facilities in work area. Eating, drinking, and smoking should not be permitted in areas where solids or liquids containing soluble lead compounds are handled, processed, or stored.

See OSHA Standard for more information on personal protective equipment, engineering and work practice controls, medical surveillance, record keeping, and reporting requirements. (29 GFR 1910.1025)

SECTION 7 Storage and Special Information Keep in a tightly closed container. Store in a cool, dry, ventilated area away from sources of heat or ignition. Protect against physical damage. Areas in which exposure to lead metal or lead compounds may occur should be identified by signs or appropriate means, and access to the area should be limited to authorized persons.

The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, Mallinckrodt, Inc. makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for a particular purpose. Accordingly, Mallinckrodt, Inc. will not be responsible for damages of any kind resulting from the use of or reliance upon such information. NO REPRESENTATIONS, OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MABE HEREUNDER WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR TO THE PRODUCT TO WHICH THE INFORMATION REFERS.

SECTION 6

Pesonal Respirators: (NIOSH Approved)

Skin Protection:

Eye Protection:

amounts can raise the body's content to toxic levels. The symptoms of chronic exposure are like those of ingestion poisoning; restlessness and irritability may also be noted. Lead is a cumulative poison and exposure even to small

Persons with pre-existing nerve or circulatory disorders or with skin or eye problems may be more susceptible to the effects of this substance.

B. FIRST AID

Remove to fresh air. Get medical attention for any breathing difficulty.

If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. CALL A PHYSICIAN IMMEDIATELY. Never give anything by mouth to an unconscious person.

Wash exposed area with soap and water. Get medical advice if irritation develops.

Wash eyes with plenty of water for at least 15 minutes. Call a physician.

(RTECS, 1982)