

MATERIAL SAFETY DATA SHEET (MSDS)

EM Science
M A T E R I A L S A F E T Y D A T A S H E E T

Section I Product Identification and Use

Manufacturer: EM SCIENCE A Division of EM Industries P.O. Box 70 480 Democrat Road Gibbstown, N.J. 08027	For More Information Call 856-423-6300 Technical Service Monday - Friday; 8:00 AM to 5:00 PM In Case of Emergency Call 800-424-9300 CHEMTREC (USA) 416-201-6383 CANUTEC (Canada) 24 Hours/Day: 7 Days/Week
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Product Name: Lead tetra-acetate
Product Code(s): B29050,
Chemical Name/Other Name: Lead tetra-acetate; lead (iv) acetate
Chemical Formula: (CH₃COO)₄Pb
Chemical Family: Aliphatic hydrocarbons
TDG Shipping Name/UN: Lead acetate UN 1616
TDG Classification/Packing group: 6.1 PG III
Use: Laboratory reagent

Section II Hazardous Ingredients

Chemical name	CAS No.	%
Lead tetra-acetate	546-67-8	100

Section III Physical Data

Physical State: Solid
Appearance and Odour: Colourless or faintly pink crystals; odour of acetic acid
Odour Threshold: Not available
Specific Gravity: 2.23
Vapour Pressure: Not applicable
Vapour Density: Not applicable
Evaporation Rate: Not applicable
Boiling Point: Not available
Freezing Point: 175°C
pH: 8.2 (in solution)
Coefficient of water/oil distribution: Not available

Section IV Fire or Explosion Hazard

Conditions of Flammability: Combustible
Extinguishing Media: Carbon dioxide, foam, dry chemical
Flash point / method: 43°C/cc
UEL: 16.0 %

LEL: 4.0 %

Autoignition Temperature: 426°C

Hazardous Combustion Products: PbO₂, CO_x, CH₃COOH

Explosion data - sensitivity to mechanical impact: No

- **sensitivity to static discharge:** No

Section V Reactivity Data

Conditions of instability: Turns pink in contact with air. Decomposes with water

Incompatibilities: Strong oxidizers, strong acids and strong reducing agents

Conditions of reactivity: Normally stable

Hazardous decomposition products: PbO₂, CH₃COOH, CO_x

Section VI Toxicological Properties / Health Hazard Data

Route of entry:

-**skin contact:** Irritates

-**skin absorption:** Readily absorbed

-**eye contact:** Irritates

-**inhalation:** Harmful

-**ingestion:** Harmful

LC₅₀: Not available

LD₅₀: Not available

Exposure Limits: TLV: 0.15 mg/m³ (as Pb), 10 ppm (as C₂H₄O)

Effects of Acute Exposure: This product is highly toxic upon contact with the skin, nose or eyes. It may also cause burns on contact with the skin or eyes. It may be fatal if inhaled, swallowed, or absorbed through the skin.

Effects of Chronic Exposure: This product is a cumulative poison.

Irritancy: No experimental information available

Sensitization to Product: No information available

Carcinogenicity: No information available

Reproductive Toxicity: No information available

Teratogenicity: No information available

Mutagenicity: No information available

Toxicologically Synergistic Products: None found

Section VII First aid measures

Skin: Flush the contact area with lukewarm running water for at least 15 minutes. Remove contaminated clothing, taking care not to spread the chemical. If contamination is extensive, remove clothing under running water. Discard or decontaminate clothing under running water. Discard or decontaminate clothing before use. Unless contact has been slight, seek medical attention. Seek medical attention if irritation persists.

Eye: Flush the contaminated eye(s) for at least 15 minutes with lukewarm running water, holding the eyelids open. Take care not to rinse contaminated water into the non-affected eye. Always seek medical attention for accidents involving the eyes.

Inhalation: Take proper precautions to ensure your own safety before attempting rescue. Remove source of contamination or move victim to fresh air. If

breathing has stopped, trained personnel should begin artificial respiration, or if the heart has stopped, cardiopulmonary resuscitation (CPR) immediately. Seek medical attention.

Ingestion: Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Rinse mouth thoroughly with water. Do not induce vomiting. Have victim drink 200-400 ml of water to dilute. If breathing has stopped, trained personnel should begin artificial respiration, or if the heart has stopped, cardiopulmonary resuscitation (CPR) immediately. Seek medical attention.

Section VIII Preventive Measures

Engineering Controls: Engineering control methods to reduce hazardous exposures are preferred. Methods include mechanical ventilation (dilution and local exhaust), process or personnel enclosure, control of process conditions, and process modification. Administrative controls and personal protective equipment may also be required.

Personal protective equipment:

-**gloves:** Rubber, nitrile, neoprene , PVC

-**respiratory protection:** Dust mask, approved respirator as appropriate

-**eye protection:** Chemical safety goggles

-**clothing:** Plastic apron, sleeves and boots as appropriate

Storage Requirements: Store in suitable labelled containers. Keep containers tightly closed when not in use and when empty. Protect from damage. Store in a cool, dry, well-ventilated area, out of direct sunlight. Store away from incompatible materials. Store away from ignition sources.

Handling Procedures and Equipment: Keep away from materials that can burn. Avoid generating dust. Follow routine safe handling procedures.

Leak or Spill Clean-up: Before dealing with spillages take necessary protective measures, inform others to keep at a safe distance and, for flammable materials, shut off all possible sources of ignition. Transfer carefully into container and arrange removal by disposal company.

Disposal: Follow all federal, provincial and local regulations for disposal. Use only licensed disposal and waste hauling companies. Disposal of small amounts of spilled material may be handled as described under "Leak or Spill Cleanup". Large spills must be dealt with separately and must be handled by qualified disposal companies.

Special Shipping Information: Follow all TDG regulations and see classification in Section I

Section IX Preparation Information

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