

# MATERIAL SAFETY DATA SHEET

*Product Name:* Lead Citrate

*Catalog Number:* 23605

*DOT Hazard Class:* 6.1

*DOT Proper Shipping Name:* Lead Compounds, soluble, n.o.s.

*UN/NA ID No. :* UN2291

*MSDS Prepared:* 8/2009

*Distributed By:* Ladd Research  
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## INGREDIENTS

	<i>CAS Number</i>	<i>Percent</i>	<i>Exposure Limits</i>
Lead Citrate	512-26-5	96	0.05 mg/m <sup>3</sup> TWA (as Pb)

## PHYSICAL AND CHEMICAL DATA

**Appearance and Odor:** White, odorless crystal

**Specific Gravity:** Not available.

**Evaporation Rate:** Not available.

## FIRE AND EXPLOSION HAZARD DATA

**Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or appropriate foam.

**Flash Point:** Not applicable.

**Explosion limits:** Not available.

**NFPA Rating:** (estimated) Health: 2; Flammability: 0; Reactivity: 0

## HEALTH HAZARD DATA

**Target Organs:** Blood, kidneys, nerves

**Eye:** May cause eye irritation

**Skin:** May cause irritation. Harmful if absorbed through the skin.

**Ingestion:** May cause severe digestive tract irritation with abdominal pain, nausea, vomiting and diarrhea. May cause headache. Exposure may cause anemia and other blood abnormalities. May cause degenerative brain changes. Ingestion of lead compounds can cause toxic effects in the blood forming organs, kidneys and central nervous system. Acute lead poisoning can cause muscle weakness, "lead line" on the gums, metallic taste, definite loss of appetite, insomnia, dizziness, high lead levels in blood and uring with shock, coma and death in extreme cases.

**Inhalation:** May cause effects similar to those described for ingestion. May cause respiratory tract irritation. May cause irritation of the mucous membranes.

**Chronic:** May cause paralysis. Repeated exposure may cause nervous system abnormalities with muscle weakness and damage, motor incoordination, and sensation disturbances. Lead salts have been reported to cross the placenta and induce embryo- and feto- mortality.

## EMERGENCY AND FIRST AID

**Eyes:** Immediately flush eyes with plenty water for at least 15 minutes. Obtain medical aid.

**Skin:** Obtain medical aid immediately. Flush skin with plenty water for at least 15 minutes.

**Ingestion:** If victim is conscious and alert, give 2-4 cupfuls of milk or water. Obtain medical aid.  
**Inhalation:** Obtain medical aid immediately. Remove from exposure and move to fresh air immediately. Do not employ rescue breathing

***REACTIVITY DATA***

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** Incompatible materials.

**Incompatibility with other Materials:** Strong oxidizing agents, strong acids.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, lead and lead oxides.

**Hazardous Polymerization:** Has not been reported.

***SPILL, DISPOSAL AND STORAGE INFORMATION***

**Spills:** Wash area with soap and water. Clean up spills immediately. Sweep up and place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation.

**Disposal:** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Part 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

***PROTECTIVE EQUIPMENT AND CONTROL MEASURES***

**Eyes:** Wear chemical splash goggles.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Engineering Controls:** Eyewash facility and safety shower should be available. Use general or local exhaust.

***SECTION 313 SUPPLIER NOTIFICATION***

**This product is not reportable under Section 313.**

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