

**GELEST, INC.**

11 East Steel Rd. Morrisville, PA 129067  
Phone: (215) 547-1015

MATERIAL SAFETY  
DATA SHEET

EMERGENCY TELEPHONE  
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **LEAD TETRAACETATE tech-95 - PBL6455**

CHEMICAL NAME: LEAD TETRAACETATE, hydrate

SYNONYMS: LEAD IV ACETATE

CHEMICAL FAMILY: LEAD COMPOUND

FORMULA: C<sub>8</sub>H<sub>12</sub>O<sub>8</sub>Pb

HMIS CODES HEALTH: 3 FLAMMABILITY: 1 REACTIVITY: 1

**INGREDIENTS**

IDENTITY	CAS NO.	%	TLV
LEAD TETRAACETATE	546-67-8	>90	0.15 mg/m <sup>3</sup> as lead
LEAD II ACETATE	6080-56-4	<5	0.15 mg/m <sup>3</sup> as lead

**PHYSICAL DATA**

Boiling Point: NA  
Specific Gravity: 2.28  
Vapor Density: NA  
% volatiles: NA  
Molecular Weight: 443.37  
Appearance & Color: White to off-white crystals. Slight odor of acetic acid.

Melting Point: 175°C - with decomposition  
Vapor Pressure: not determined  
Solubility in water, slightly soluble  
Evaporation rate: NA  
Other: NA

**FIRE & EXPLOSION DATA**

Flash Point, COC: NA Autoignition Temp.: not determined  
Flammability Limits- LEL: NA UEL: NA

Extinguishing Media: Water spray, foam, carbon dioxide, dry chemical.

Special Fire Fighting Procedures: Avoid eye and skin contact. Do not breathe fumes or inhale vapors.

Unusual Fire and Explosion Hazards: Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.

-1-(PBL6455)

## ENVIRONMENTAL INFORMATION

Spill response: May be hazardous to aquatic life if released to open waters. Sweep material and transfer to a suitable container for disposal.

Recommended Disposal: Dispose of as solid waste. Follow all chemical pollution control regulations.

## HEALTH HAZARD DATA

Eye Contact: May cause immediate or delayed severe eye irritation.

Skin contact: May produce irritation or contact dermatitis which may be delayed several hours. Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects.

Inhalation: Inhalation of dust or particulates will irritate the respiratory tract.

Toxicity: not determined.

The similar compound Lead II Acetate has reported toxicity ipr-rat, LD50: 200mg/kg

Chronic Toxicity: Exposure to dust or fumes of organic lead compounds is known to cause toxic effects. Lead is a cumulative poison. Lead compounds are known to affect gum tissue, central nervous system, kidneys, blood and reproductive systems.

### SUGGESTED FIRST AID

**EYES:** In case of contact, immediately flush eyes with flowing water for at least 15 minutes. Get medical attention.

**SKIN:** Flush with water, then wash with soap and water.

**INHALATION:** Move exposed individual to fresh air. Administer oxygen if needed. Call a physician.

**INGESTION:** Never give fluids or induce vomiting if patient is unconscious or having convulsions. Get medical attention. *Physician note: Diagnostic mobilization of lead with calcium EDTA may be useful in questionable cases.*

## REACTIVITY DATA

Stability: Stable

Conditions to avoid: Material decomposes slowly in contact with air by reaction with water and carbon dioxide.

Hazardous decomposition products: Organic acid vapors and lead oxide fumes.

-2-(PBL6455)

## SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV, NIOSH approved dust and mist respirator.

Eye and Face Protection: Chemical worker's goggles. Do not wear contact lenses.

Other Clothing and Equipment: Rubber, neoprene or nitrile gloves. An eyewash and emergency shower should be available. Launder clothing before reuse.

## OTHER PRECAUTIONS

For research and industrial use only.

Storage and Handling: Store in sealed containers.

## TRANSPORTATION

DOT SHIPPING NAME: Lead Acetate

DOT HAZARD CLASS: 6.1

DOT LABEL: TOXIC

DOT ID No: UN1616

PG: III

Prepared by safety and environmental affairs

ISSUE DATE PBL6455: 3/25/08

SUPERSEDES: none

The information contained in this document has been gathered from reference materials and/or Gelest, Inc. test data and is to the best knowledge and belief of Gelest, Inc. accurate and reliable. Such information is offered solely for your consideration, investigation and verification. It is not suggested or guaranteed that the hazard precautions or procedures described are the only ones which exist. Gelest, Inc. makes no warranties, express or implied, with respect to the use of such information and assumes no responsibility therefore. Information on this safety data sheet is not intended to constitute a basis for product specifications.

-3-(PBL6455)

© 2011 Gelest Inc. Morrisville, PA 19067