

**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 II FLUORIDE - PBL6285**  
CHEMICAL NAME: LEAD II FLUORIDE  
SYNONYMS: PLUMBOUS FLUORIDE  
CHEMICAL FAMILY: LEAD COMPOUND  
FORMULA: F<sub>2</sub>Pb  
HMIS CODES HEALTH: 3 FLAMMABILITY: 0 REACTIVITY: 0

**INGREDIENTS**

IDENTITY	CAS NO.	%	TLV
LEAD II FLUORIDE	7783-46-2	>95	0.15 mg/m <sup>3</sup> as lead (PEL: 50 mg/m <sup>3</sup> )

**PHYSICAL DATA**

Boiling Point: 1292°C	Melting Point: 855°C
Specific Gravity: 8.24	Vapor Pressure, 904°C: 10mm
Vapor Density: NA	Solubility in water: 0.64g/liter
% volatiles: <1	Evaporation rate: NA
Molecular Weight: 245.19	Other: NA
Appearance & Color: White powder	

**FIRE & EXPLOSION DATA**

Flash Point, COC: NA Autoignition Temp.: NA  
Flammability Limits- LEL: NA UEL: NA

Extinguishing Media: Not combustible  
Special Fire Fighting Procedures: Avoid eye and skin contact. Do not breathe dust, particles or inhale vapors.  
Unusual Fire and Explosion Hazards: None known.

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## 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 - oral rat, LD50: 3031mg/kg

Chronic Toxicity: Exposure to dust or fumes of lead compounds is known to cause toxic effects. Lead is a cumulative poison.

### 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: At high temperatures >300°C can liberate lead fumes. Avoid contact with active metals at room temperature, and metallic aluminum, sodium, titanium, zirconium at temperatures over >300°C.

Hazardous decomposition products: Lead fluoride and metallic lead fumes.

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## 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 industrial and research use only.

Storage and Handling: Store in sealed containers.

## TRANSPORTATION

DOT SHIPPING NAME: LEAD COMPOUND, SOLUBLE N.O.S. (LEAD II FLUORIDE)

DOT HAZARD CLASS: 6.1

DOT LABEL: TOXIC

DOT ID No: UN 2291

PG: III

## OTHER APPLICABLE REGULATIONS

This product contains a lead compound which is subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40CFR 372.

Prepared by safety and environmental affairs      ISSUE DATE PBL6285: 6/8/09

SUPERSEDES: 9/16/02

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