

GELEST, INC.

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MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **LEAD IV OXIDE - PBL6400**
CHEMICAL NAME: LEAD IV OXIDE
SYNONYMS: LEAD DIOXIDE
CHEMICAL FAMILY: LEAD COMPOUND
FORMULA: OPb
HMIS CODES HEALTH: 3 FLAMMABILITY: 0 REACTIVITY: 0

INGREDIENTS

IDENTITY	CAS NO.	%	TLV
LEAD IV OXIDE	1309-60-0	>95	0.15 mg/m ³ as lead (PEL: 50 mg/m ³)

PHYSICAL DATA

Boiling Point: NA	Melting Point: 290°C
Specific Gravity: 9.37	Vapor Pressure, 25°C: <0.01mm
Vapor Density: NA	Solubility in water: insoluble
% volatiles: <1	Evaporation rate: NA
Molecular Weight: 239.19	Other: NA
Appearance & Color: brown-black 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.

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 - ipr rat, LD50: 220mg/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 metallic aluminum, sodium, titanium, zirconium and reducing agents.

Hazardous decomposition products: Lead oxide and metallic lead fumes.

-2-(PBL6400)

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 DIOXIDE

DOT HAZARD CLASS: 5.1

DOT LABEL: OXIDIZER

DOT ID No: 1872

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 PBL6400: 3/31/03
SUPERSEDES: none

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