

LTS Research Laboratories, Inc. Safety Data Sheet Lead Dioxide

1. Product and Company Identification

Trade Name: Lead dioxide

Chemical Formula: PbO₂

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 37 Ramland Road
City: Orangeburg
State: New York
Zip Code: 10962
Country: USA

Tel #: 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

2. Hazards Identification

Signal Word: Danger



Hazard Statements: H272: May intensify fire; oxidizer

H302+H332: Harmful if swallowed or if inhaled H360: May damage fertility or the unborn child

H373: May cause damage to organs through prolonged or repeated

exposure

Precautionary Statements: P221: Take any precaution to avoid mixing with combustibles

P210: Keep away from heat/sparks/open flames/hot surfaces – No

smoking

P260: Do not breathe dust/fume/gas/mist/vapours/spray

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest

in a position comfortable for breathing

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 2 Flammability: 0 Physical: 2

3. Composition

Chemical Family: Ceramic
Additional Names: Lead oxide

Lead dioxide (PbO₂):

Percentage: 100 wt% CAS #: 1309-60-0 EC #: 215-174-5

4. First Aid Procedures General Treatment: Seek medical attention if symptoms persist. Special Treatment: None Important Symptoms: None Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult. Give one to two glasses of water and induce vomiting. Never induce Ingestion: vomiting or give anything by mouth to an unconscious person. Wash affected area with mild soap and water. Remove any Skin: contaminated clothing. Eyes: Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing 5. Firefighting Measures Flammability: Oxidizer, may cause fire in contact with other materials Extinguishing Media: No special restrictions. Spec. Fire Fighting Procedure: Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See section 10 for decomposition products. 6. Accidental Release Measures If Material Is Released/Spilled: Wear appropriate respiratory and protective equipment specified in special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust. **Environmental Precautions:** Isolate runoff to prevent environmental pollution. 7. Handling and Storage **Handling Conditions:** Wash thoroughly after handling. **Storage Conditions:** Store in a cool dry place in a tightly sealed container. Store apart from materials and conditions listed in section 10. Work/Hygienic Maintenance: Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air. Ventilation: Provide sufficient ventilation to maintain concentration at or below threshold limit. 8. Exposure Controls and Personal Protection 0.05 mg/m³ as Pb, long-term value Permissible Exposure Limits: 0.05 mg/m³ as Pb, long-term value Threshold Limit Value: Special Equipment: None **Respiratory Protection: Dust Respirator** Protective Gloves: Rubber gloves Eye Protection: Safety glasses or goggles **Body Protection:** Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics

Color Brown/black

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor: Odorless Water Solubility: Insoluble **Boiling Point:** N/A **Melting Point:** 290 °C Flash Point: N/A Autoignition Temperature: N/A Density: 9.38 g/cc Molecular weight: 239.19 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Reducing agents, Flammable substances, Metal powders, Organic

materials

Incompatible Conditions: None

Hazardous Decomposition Products: Metal oxide fume

11. Toxicological Information

Potential Health Effects:

Eyes:May cause irritationSkin:May cause irritationIngestion:May cause irritationInhalation:May cause irritation

Chronic: N/A

Signs & Symptoms: N/A

Aggravated Medical Conditions: N/A

Median Lethal Dose: N/A

Carcinogen:

ACGIH A3: Animal carcinogen: Agent is carcinogenic in experimental animals at a relatively high dose, by routes of administration, at sites, of histologic types, or by mechanisms not considered relevant to worker exposure. Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans. Available evidence suggests that the agent is not likely to cause cancer in humans except under uncommon or unlikely routes or level of exposure.

NTP-R: Reasonably anticipated to be a carcinogen, limited evidence of carcinogenicity from epidemiologic studies.

EPA-B2: Probable human carcinogen, sufficient evidence from animal studies; inadequate evidence or no data from epidemiologic studies. IARC-2A: Probably carcinogenic to humans: limited human evidence;

sufficient evidence in experimental animals.

12. Ecological Information

Aquatic Toxicity: High Persistent Bioaccumulation Toxicity: No Very Persistent, Very Bioaccumulative: No

Notes: Very toxic for aquatic organism.

May cause long lasting harmful effect on aquatic life.

Do not allow material to be released to the environment without proper

governmental permits.

Danger to drinking water if in extremely small quantities.

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous:

Hazardous for transportation



Hazard Class: 5.1 Oxidizing substances

Packing Group: III
UN Number: UN1872
Proper Shipping Name: Lead dioxide

15. Regulatory Information

Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: N/A Sec 313 Toxic Chemicals: Yes

16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

Document Last Revised: 07/24/2015