

LTS Research Laboratories, Inc. Safety Data Sheet Lead Oxide

1. Product and Company Identification

Trade Name: Lead Oxide Chemical Formula: PbO

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:

H302+H332: Harmful if swallowed or if inhaled. H351: Suspected of causing cancer if swallowed. H360: May damage fertility or the unborn child

H362: May cause harm to breast-fed children.

H372: Causes damage to organs (Kidney, Central nervous system,

Blood) through prolonged or repeated exposure if inhaled.

H373: May cause damage to organs through prolonged or repeated

exposure.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

P202: Do not handle until all safety precautions have been read and understood.

P260: Do not breathe dust/fume/gas/mist/vapors/spray. P263: Avoid contact during pregnancy/ while nursing.

P264: Wash skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product. P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P312 + P330: IF SWALLOWED: Call a POISON CENTER/

doctor if you feel unwell. Rinse mouth.

P304 + P340 + P312: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P308 + P313: IF exposed or concerned: Get medical advice/ attention.

P391: Collect spillage. P405: Store locked up.

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

Health Ratings (0-4): Health: 2 0 Flammability: Physical: 1 3. Composition Chemical Family: Ceramic Additional Names: Lead(II) oxide, Lead monoxide, Litharge, Massicot, Plumbous oxide Lead oxide (PbO): Percentage: 100 wt% CAS #: 1317-36-8 EC #: 215-267-0 4. First Aid Procedures General Treatment: Seek medical attention if symptoms persist. Special Treatment: Important Symptoms: Poisoning, Irritability Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult. Ingestion: Seek medical attention Skin: Wash affected area with mild soap and water. Remove any 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: Non-flammable horatories inc. Extinguishing Media: No special restrictions – use suitable extinguishing agent for surrounding material and type of fire. Do not use water for metal fires – use CO2, sand, extinguishing powder. 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. Avoid formation of dust. **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

Permissible Exposure Limits: 0.05 mg/m³ as Pb, long-term value Threshold Limit Value: 0.05 mg/m³ as Pb, long-term value

Special Equipment: None

Respiratory Protection: Use a respirator with type P100 (USA) or P3 (EN143) cartridges as a

backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government

standards.

Protective Gloves: Nitrile rubber, NBR 0.11mm thick.

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 Yellow – red

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

Odor: **Odorless** Water Solubility: Insoluble **Boiling Point:** N/A Melting Point: 886 °C Flash Point: 1470 °C Autoignition Temperature: N/A Density: 9.53 g/cc 223.2 g/mol Molecular weight:

10. Reactivity tories inc

Stability: Stable under recommended storage conditions
Reacts With: Oxidizing agents, Hydrogen peroxide, Acids.
Incompatible Conditions: Acids, Oxidizing agents, Excess heat.

Hazardous Decomposition Products: Lead oxide fume

11. Toxicological Information

Potential Health Effects:

Eyes: May cause irritation Skin: May cause irritation

Ingestion: Suspected of causing cancer if swallowed

Inhalation: Harmful if inhaled

Chronic: Causes damage to organs through repeated or prolonged exposure

Signs & Symptoms: Poisoning, Irritability

Aggravated Medical Conditions: Suspected of causing cancer if swallowed.

Median Lethal Dose: >1000 mg/kg for rat by mouth

Carcinogen: ACGIH A1: Confirmed human carcinogen: Agent is carcinogenic to

humans based on epidemiologic studies of, or convincing clinical evidence in, exposed humans. Carcinogen as defined by OSHA.

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: N/A
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.

Do not allow product to reach any water sources.

Danger to drinking water if even extremely small quantities leak into

the ground.

Also poisonous for fish and plankton in water bodies.

Avoid transfer into the environment.

13. Disposal Considerations

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

14. Transportation Data

Hazardous: Hazardous for transportation



Hazard Class: 6.1 Toxic and infectious substances

Packing Group: III UN Number: UN2291

Proper Shipping Name: Lead compounds, soluble, n.o.s. (Lead Monoxide)

15. Regulatory Information

Sec 302 Extremely Hazardous:

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.

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