

XI'AN FUNCTION MATERIAL GROUP CO., LTD

Material Safety Data Sheet Lead Oxide

1. Product and Company Identification

Trade Name: Lead oxide Chemical Formula: Pb₃O₄

Manufacturer/Supplier: XI'AN FUNCTION MATERIAL GROUP CO., LTD

Street: No. 69, Gazelle Valley, High-Tech Zone

City: XI'AN
State: Shaanxi
Zip Code: 710077
Country: China

Tel #: +86-29-88993870/+86-13519132051

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

P221: Take any precaution to avoid mixing with combustibles

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

in a position comfortable for breathing

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

smoking

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

Health Ratings (0-4):

Health: 2 Flammability: 0 Physical: 2

3. Composition

Chemical Family: Ceramic

Additional Names: Lead (II, IV) oxide, Lead Teroxide, Tri-lead tetroxide

Lead oxide (Pb₃O₄):

Percentage: 100 wt.% CAS #: 1314-41-6 EC #: 215-235-6

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.
Ingestion:	Seek medical attention.
Skin:	Wash affected area with mild soap and water. Remove any
Eyes:	contaminated clothing. Flush eyes with water, blinking often for several minutes. Remove
Lycs.	contact lenses if present and easy to do. Continue rinsing
	5. Firefighting Measures
Flammability:	Oxidizing – may cause or intensify fire in conjunction with other materials.
Extinguishing Media:	CO2, extinguishing powder or water spray. Fight larger fires with wate spray or alcohol resistant foam.
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
Wada/Hariaria Maintanana	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/m ³ as Pb, long-term value
Threshold Limit Value:	0.05 mg/m ³ 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 Orange-Red Form: Powder **Odorless** Odor: Water Solubility: Insoluble **Boiling Point:** N/A Melting Point: ca 500 °C Flash Point: N/A **Autoignition Temperature:** N/A Density: 9.1 g/cc Molecular weight: 685.60 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts with: Acids, Oxidizing agents

Incompatible Conditions/Materials: Reducing agents, Flammable substances, Organic materials, Metal

powders

Hazardous Decomposition Products: Lead oxide fume

11. Toxicological Information

Potential Health Effects:

Eyes: May cause irritation Skin: May cause irritation

Ingestion: Harmful Inhalation: Harmful 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

Very Persistent, Very Bioaccumulative: 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: 5.1 oxidizing substances

Packing Group:

UN Number: UN1479

Proper Shipping Name: Oxidizing solid, n.o.s. (Lead (II, IV) Oxide)

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.

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