



Registered Off. : 101-A, Deep Enclave, Pocket 'D', Ashok Vihar, Phase-III, Delhi-110 052 (India)
Corporate Off. : 152, Vardhman City Centre, Near Shakti Nagar Underbridge, Delhi-110052 (India)
Works : Plot No.1022, Modern Industrial Estate, Bahadurgarh-124507, Haryana (India)
Telephone : 0091 - 11 - 23646422 E-mail : tecpharm@gmail.com
Website : www.technopharmchem.com

Lanthanum Oxide

1. Product Identification

Synonyms: Lanthanum Trioxide; Lanthanum Sesquioxide

CAS No.: 1312-81-8

Molecular Weight: 325.81

Chemical Formula: La_2O_3

Product Code : 36072

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent
Lanthanum Oxide	1312-81-8	98 - 100%

3. Hazards Identification

Potential Health Effects

Inhalation: Not expected to be a health hazard via inhalation. May cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath. Other symptoms may parallel those from ingestion.

Ingestion: Not expected to be a health hazard via ingestion. May cause headache, malaise, chills, fever, nausea, muscle pains, abdominal cramps, and hemoglobinuria (free blood in the urine).

Skin Contact: Not expected to be a health hazard from skin exposure. May cause slight irritation.

Eye Contact: May cause irritation, redness and pain. May cause conjunctivitis or corneal damage.

Chronic Exposure: Repeated exposure may cause symptoms similar to those listed for acute effects.

Aggravation of Pre-existing Conditions: No information found.

4. First Aid Measures

Inhalation: Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion: If swallowed, give several glasses of water to drink to dilute. If large amounts were swallowed or symptoms occur, get medical advice. Never give anything by mouth to an unconscious person.

Skin Contact: Wash exposed area with soap and water. Get medical advice if irritation develops.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

5. Fire Fighting Measures

Fire: This material is noncombustible.

Explosion: Not considered to be an explosion hazard. Sensitive to static discharge.

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire. If at all possible, avoid using water spray since this material reacts violently with water. If possible without risk, remove containers from fire area. Do not allow water runoff to enter sewers or waterways.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.



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6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8.

Spills: Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust. Reacts with water.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage.

Avoid dust formation and control ignition sources. Employ grounding, venting and explosion relief provisions in accord with accepted engineering practices in any process capable of generating dust and/or static electricity. Empty only into inert or non-flammable atmosphere. Emptying contents into a non-inert atmosphere where flammable vapors may be present could cause a flash fire or explosion due to electrostatic discharge. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits: None established.

Ventilation System: In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.

Personal Respirators (NIOSH Approved):

For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter.

Skin Protection: Wear protective gloves and clean body-covering clothing.

Eye Protection: Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance: White to yellowish-white amorphous powder.

Odor: Odorless.

Solubility: Insoluble in water.

Density: 6.51 at 15C (59F) 5.87 at 25C (77F)

pH: Alkaline

% Volatiles by volume @ 21C (70F): 0

Boiling Point: 4200C (7592F)

Melting Point: 2315C (4199F)

Vapor Density (Air=1): Not applicable.

Vapor Pressure (mm Hg): Not applicable.

Evaporation Rate (BuAc=1): No information found.

10. Stability and Reactivity

Stability: Lanthanum oxide readily absorbs carbon dioxide from air.

Hazardous Decomposition Products: None reported.

Hazardous Polymerization: Will not occur.

Incompatibilities: Lanthanum oxide is incompatible with chlorine trifluoride and water. It reacts violently with water, vigorously producing heat, accompanied by a hissing action.

Conditions to Avoid: Avoid excessive dust generation and contact with incompatibles. Avoid contact with acids.

The information contained herein is in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. We do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.



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11. Toxicological Information

For Lanthanum Oxide: LD50 Oral Rat: >9968 mg/kg. Irritation Data: Eye, Rabbit, Std Draize, 100 mg, mild.

12. Ecological Information

Environmental Fate: No information found.

Environmental Toxicity: No information found.

13. Disposal Considerations

Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No

Reactivity: Yes (Pure / Solid)

16. Other Information

Label Precautions:

Avoid breathing dust.

Keep container closed.

Avoid contact with eyes, skin and clothing.

Wash thoroughly after handling.

Product Use:

Laboratory Reagent.