Lanthanum(III) Oxide 1312-81-8 MSDS

Name:	Lanthanum Oxide 99.99% Material Safety Data Sheet
Synonym:	Lanthanum Sesquioxide; Lanthanum Trioxide
CAS:	1312-81-8

Section 1 - Chemical Product

MSDS Name:Lanthanum Oxide 99.99% Material Safety Data Sheet

Synonym:Lanthanum Sesquioxide; Lanthanum Trioxide

Section 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	content	EINECS#
1312-81-8	Lanthanum Oxide	>99	215-200-5

Hazard Symbols: None Listed.

Risk Phrases: None Listed.

Section 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Hygroscopic.

Potential Health Effects

Eye:

May cause eye irritation. Exposure to particulates or solution may cause conjunctivitis, ulceration, and corneal abnormalities.

Skin:

May cause skin irritation.

Ingestion:

May cause irritation of the digestive tract.

Inhalation:

May cause respiratory tract irritation. May cause effects similar to those described for ingestion.

Chronic:

Repeated exposure may cause pulmonary inflammation and hyperemia (an excess of blood in a part).

Section 4 - FIRST AID MEASURES

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin:

Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

Ingestion:

If victim is conscious and alert, give 2-4 cupfuls of milk or water.

Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation:

Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Get medical aid.
Notes to Physician:

Section 5 - FIRE FIGHTING MEASURES

General Information:
As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
Extinguishing Media:
In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

Section 6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks:
Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation.

Section 7 - HANDLING and STORAGE

Handling:
Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with skin and eyes. Keep container tightly closed. Avoid ingestion and inhalation.
Storage:
Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from moisture.

Section 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:
Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.
Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin:
Wear appropriate protective gloves to prevent skin exposure.
Clothing:
Wear appropriate protective clothing to prevent skin exposure.
Respirators:
Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid
Appearance: white
Odor: None reported
pH: Alkaline.
Vapor Pressure: Negligible.
Viscosity: Not available.
Boiling Point: 7592 deg F
Freezing/Melting Point: 4199 deg F
Autoignition Temperature: Not applicable.
Flash Point: Not applicable.
Explosion Limits, lower: Not available.
Explosion Limits, upper: Not available.
Decomposition Temperature: Not available.
Solubility in water: Decomposes.
Specific Gravity/Density: 6.51 @ 15C.
Molecular Formula: La2O3
Molecular Weight: 325.8092

Section 10 - STABILITY AND REACTIVITY

Chemical Stability:
Stable at room temperature in closed containers under normal storage and handling conditions.
Conditions to Avoid:
Incompatible materials, dust generation, exposure to moist air or water.
Incompatibilities with Other Materials:
Moisture, oxidizing agents, carbon dioxide, strong acids.
Hazardous Decomposition Products:
Lanthanum hydroxide.
Hazardous Polymerization: Has not been reported.

Section 11 - TOXICOLOGICAL INFORMATION

RTECS#:
CAS# 1312-81-8: OE5330000 LD50/LC50:
CAS# 1312-81-8: Draize test, rabbit, eye: 100 mg Mild; Oral, rat: LD50 = >9968 mg/kg.
Carcinogenicity:
Lanthanum Oxide - Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
See actual entry in RTECS for complete information.

Section 12 - ECOLOGICAL INFORMATION

Other No information available.

Section 13 - DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - TRANSPORT INFORMATION

IATA

No information available.

IMO

No information available.

RID/ADR

No information available.

Section 15 - REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

Safety Phrases:

WGK (Water Danger/Protection)

CAS# 1312-81-8: No information available.

United Kingdom Occupational Exposure Limits

Canada

CAS# 1312-81-8 is listed on Canada's DSL List.

CAS# 1312-81-8 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

US FEDERAL

TSCA

CAS# 1312-81-8 is listed on the TSCA inventory.

SECTION 16 - ADDITIONAL INFORMATION

N/A