

Material Safety Data Sheet

Identity: Lanthanum Oxide
Chemical Family: Rare Earth Oxide

Formula: La₂O₃

Section I - General Information

Manufacturer: [Stanford Advanced Materials](#) (SAM)

The information below is believed to be accurate and represents the best information available to SAM. However, SAM makes no warranty, expressed or implied with respect to such information and we assume no liability resulting from its use.

Section II - Hazardous Ingredients/Identity Information

Hazardous Components	CAS #	OSHA PEL	ACGIH TLV	%
	1312-81-8	N/E	N/E	100

Section III - Physical/Chemical Characteristics

Boiling Point: 4200°C
Melting Point: 2315°C
Physical States: Solid
Evaporation Rate: 0

Specific Gravity (water=1): 6.51 @ 15°C
Vapor Pressure: Essentially 0
Vapor Density: NA
Solubility in water: Insoluble
Percent Volatile: NA

Appearance and odor: White powder, odorless

Section IV - Fire and Explosion Hazard Data:

Flash Point: NA

Extinguishing Media:

Use water, dry chemical extinguishing agents, dry sand or ground dolomite. Use normal procedures. Wear NIOSH/MSHA approved self-contained breathing apparatus, flame resistant clothing, hat, boots, and gloves.

Unusual Fire and Explosion Hazards: None.

Section V - Reactivity Data

Stability: Stable

Conditions to Avoid: Incompatibles.

Incompatibility - Materials to Avoid: CO₂

Hazardous Decomposition or Byproducts: No data.

Section VI - Health Hazard Data

Routes of exposure

Inhalation: Acute: May cause irritation to mucous membranes and upper respiratory tract. May cause delayed blood clotting and hemorrhage.

Chronic: None known.

Emergency Procedures: No specific information available. One should obtain medical attention.

Ingestion: Acute: None known. Chronic: None known.

Emergency Procedures: No data available, but one should obtain medical attention.

Skin: Acute: May cause irritation. Chronic: None known.

Emergency Procedures: Remove contaminated clothing, flood skin with water. If irritation persists, seek medical attention.

Eyes: Acute: May cause irritation. May attack cornea. Chronic: None known.

Emergency Procedures: Flush eyes with large amounts of water including under eyelids for at least 15 minutes. Call a physician.

Section VII - Precautions for Safe Handling and Use

Steps to be taken in case material is released or spilled:

Wear appropriate respiratory and protective equipment specified in section VIII - control measures. Isolate spill area, provide ventilation and extinguish sources of ignition. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for proper disposal. Take care not to raise dust. Use non-sparking tools.

Waste disposal method:

Dispose of in accordance with state, local, and federal regulations.

Hazard Label Information:

Store in cool, dry area. Store in tightly sealed container. Wash thoroughly after handling.

TSCA Status: Components of this product are listed on the Toxic Substance Control Act (TSCA) inventory

Section VIII - Control Measures

Protective Equipment Summary - Hazard Label Information:

NIOSH/MSHA approved respirator, Impervious gloves, Safety glasses, clothes to prevent skin contact.

Respiratory Protection (Specify Type) - NIOSH - approved dust respirator.

Ventilation:

Local Exhaust: To maintain concentration at low exposure levels.

Mechanical (General): Recommended.

Protective Gloves: Rubber gloves. *Eye Protection:* Safety glasses.

Other Protective Clothing or Equipment: Protective gear suitable to prevent contamination.

Work/Hygienic/Maintenance Practices: Implement engineering and work practice controls to reduce and maintain concentration of exposure at low levels. Use good housekeeping and sanitation practices. 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.