

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name	<b>Lanthanum(III) Oxide</b>
Chemical Formula	La <sub>2</sub> O <sub>3</sub>
Molecular Weight	325.81 g/mol
CAS No.	1312-81-8
EC No.	215-200-5
Synonyms	Lanthanum Sesquioxide, Lanthanum Trioxide
Supplier Address*	ISOFLEX USA PO Box 472615 San Francisco CA 94147 United States
Telephone	+1 415-440-4433
Fax	+1 415-563-4433
Emergency Phone Number (both supplier and manufacturer)	Infotrac/ +1 800-535-5053  *May include subsidiaries or affiliate companies/divisions
Email	<a href="mailto:iusa@isoflex.com">iusa@isoflex.com</a>
Website	<a href="http://www.isoflex.com">www.isoflex.com</a>
Preparation Information	ISOFLEX USA Product Safety +1 415-440-4433

**2. HAZARD(S) IDENTIFICATION**

**Classification:**

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This substance is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

**GHS Label Elements, Including Precautionary Statements:** None required

**Hazards Not Otherwise Classified (HNOC):** None

**NFPA:**



Health:	0
Flammability:	0
Instability:	1
Physical Hazards:	N/A

---

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name:	Lanthanum Oxide
Chemical Formula:	La <sub>2</sub> O <sub>3</sub>
Molecular Weight:	325.81 g/mol
CAS No.:	1312-81-8
Molecular Weight:	56.08 g/mol

No components need to be disclosed according to the applicable regulations.

---

### 4. FIRST AID MEASURES

<i>General Advice</i>	If symptoms persist, consult a physician.
<i>Inhalation</i>	Move person into fresh air. If not breathing, give artificial respiration. Consult a physician if symptoms occur.
<i>Ingestion</i>	Rinse mouth with water, and then drink plenty of water. Consult a physician if symptoms occur.
<i>Skin Contact</i>	Wash off with soap and plenty of water for at least 15 minutes. Consult a physician if skin irritation persists.
<i>Eye Contact</i>	Rinse eyes thoroughly with plenty of water, including under the eyelids, for at least 15 minutes. Consult a physician.
<i>Most Important Symptoms</i>	None reasonably foreseeable.
<i>Notes to Physician</i>	Treat symptomatically.

---

### 5. FIREFIGHTING MEASURES

<i>Suitable Extinguishing Media</i>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<i>Special Hazards</i>	Lanthanum oxides. Keep product and empty container away from heat and sources of ignition.
<i>Advice for Firefighters</i>	Wear self-contained breathing apparatus for firefighting if necessary.

---

### 6. ACCIDENTAL RELEASE MEASURES

<i>Personal Precautions</i>	Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.
<i>Environmental Precautions</i>	Should not be released into the environment.
<i>Methods for Cleaning Up</i>	Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.

---

### 7. HANDLING AND STORAGE

<i>Handling</i>	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid ingestion and inhalation. Avoid dust formation. Do not get in eyes, on skin, or on clothing.
<i>Storage</i>	Keep containers tightly closed in a dry, cool and well-ventilated place. Store under an inert atmosphere. Protect from moisture. Incompatible materials: strong oxidizing agents, strong acids, carbon dioxide (CO <sub>2</sub> ). Storage class (TRGS 510): 13: Non Combustible Solids.

---

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Components with workplace control parameters:** None

### Exposure Controls

**Appropriate Engineering Controls:** General industrial hygiene practice

### Personal Protective Equipment

<i>Eye/Face Protection</i>	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
<i>Skin Protection</i>	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
<i>Body Protection</i>	Use safety glasses.
<i>Body Protection</i>	Choose body protection according to the amount and concentration of the dangerous substance at the workplace and according to the specific workplace.
<i>Respiratory Protection</i>	Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
<i>Control of Environmental Exposure</i>	No special environmental precautions required.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

<i>Form</i>	Powder
<i>Color</i>	White

**Odor** Odorless

**Odor Threshold** No data available

### Safety Data

<i>pH</i>	No data available
<i>Melting Point</i>	2305-2315 °C (4181-4199 °F)
<i>Boiling Point</i>	4200 °C (7592 °F)
<i>Flash Point</i>	No data available
<i>Ignition Temperature</i>	No data available
<i>Lower Explosion Limit</i>	No data available
<i>Upper Explosion Limit</i>	No data available
<i>Density</i>	6.51 g/cm <sup>3</sup> at 25 °C (77 °F)
<i>Water Solubility</i>	0.00007 g/l at 20 °C (68 °F)
<i>Vapor Pressure</i>	No data available
<i>Vapor Density</i>	No data available
<i>Decomposition Temperature</i>	No data available
<i>Viscosity</i>	No data available
<i>Explosive Properties</i>	No data available
<i>Oxidizing Properties</i>	No data available

**Other Safety Information** No data available

---

**10. STABILITY AND REACTIVITY**

<i>Reactivity</i>	No data available
<i>Stability</i>	Stable under recommended storage conditions
<i>Possibility of Hazardous Reactions</i>	No data available
<i>Conditions to Avoid</i>	Moisture
<i>Incompatible Materials</i>	Strong acids, Strong oxidizing agents, Carbon dioxide (CO <sub>2</sub> )
<i>Hazardous Decomposition Products</i>	Hazardous decomposition product formed under fire conditions: Lanthanum oxide

---

**11. TOXICOLOGICAL INFORMATION**

<b>Acute Toxicity</b>	No data available
<b>Delayed and Immediate Effects as well as Chronic Effects from Short- and Long-term Exposure:</b>	
<i>Irritation</i>	Irritating to eyes
<i>Sensitization</i>	No data available
<i>Carcinogenicity</i>	Table indicates whether each agency has listed any ingredient as a carcinogen:

Component	CAS No.	IARC	NTP	ACGIH	OSHA	Mexico
Lanthanum oxide (La <sub>2</sub> O <sub>3</sub> )	1312-81-8	Not listed	Not listed	Not listed	Not listed	Not listed

<b>Mutagenic Effects</b>	No data available
<b>Reproductive Effects</b>	No data available
<b>Developmental Effects</b>	No data available
<b>Teratogenicity</b>	No data available
<b>STOT – Single Exposure</b>	None known
<b>STOT – Repeated Exposure</b>	None known
<b>Aspiration Hazard</b>	No data available
<b>Endocrine Disruptor Information</b>	No data available
<b>Other Adverse Effects</b>	The toxicological properties have not been fully investigated.
<b>Additional Information</b>	RTECS: OE5330000  To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.  Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.  Inhalation of the dusts should be avoided, as even inert dusts may impair respiratory organ functions.  Handle in accordance with good industrial hygiene and safety practices.

---

**12. ECOLOGICAL INFORMATION**

<b>Ecotoxicity</b>	Do not empty into drains.
<b>Persistence and Degradability</b>	No data available
<b>Bioaccumulative Potential</b>	No data available

<b>Mobility</b>	Not likely mobile in the environment due to its low water solubility
<b>PBT and vPvB Assessment</b>	PBT/vPvB assessment not available, as chemical safety assessment not required/not conducted
<b>Endocrine Disrupting Properties</b>	No data available
<b>Other Adverse Effects</b>	No data available

**13. DISPOSAL CONSIDERATIONS**

<i>Product</i>	Offer surplus and non-recyclable solutions to a licensed disposal company. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional and national hazardous waste regulations to ensure complete and accurate classification.
<i>Contaminated Packaging</i>	Dispose of as unused product.

**14. TRANSPORT INFORMATION**

<b>DOT (US)</b>	Not dangerous goods
<b>IATA</b>	Not dangerous goods
<b>IMDG</b>	Not dangerous goods
<b>Further Information</b>	Not classified as dangerous in the meaning of transport regulations

**15. REGULATORY INFORMATION**

<b>SARA 302 Components</b>	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
<b>SARA 313 Components</b>	This material does not contain any chemical components with known CAS numbers that exceed the threshold ( <i>De Minimis</i> ) reporting levels established by SARA Title III, Section 313.
<b>SARA 311/312 Hazards</b>	No SARA Hazards
<b>Massachusetts Right to Know</b>	No components are subject to the Massachusetts Right to Know Act.
<b>Pennsylvania Right to Know</b>	Lanthanum oxide, CAS No. 1312-81-8
<b>California Proposition 65</b>	This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.
<b>OSHA</b>	Not applicable
<b>CERCLA</b>	Not applicable
<b>CWA (Clean Water Act)</b>	Not applicable
<b>Clean Air Act</b>	Not applicable
<b>US DOT</b>	Reportable Quantity: No Marine Pollutant: No Severe Marine Pollutant: No
<b>US DHS</b>	Product does not contain any DHS chemicals.



TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
UN	United Nations (Number)
VOC	Volatile Organic Compound
vPvB	Very Persistent Very Bioaccumulative Chemical
WGK	Wassergefährdungsklassen (Germany: Water Hazard Classes)
WHMIS	Workplace Hazardous Materials Information System

\*One or more of the above-listed items may not appear in this document.

### **General Disclaimer**

For terms and conditions, including limitation of liability, please refer to the purchase agreement in effect between ISOFLEX USA (or any of its affiliates and subsidiaries) and the purchaser.

### **DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES**

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. ISOFLEX shall not be held liable for any damage resulting from handling or from contact with the above product.



ISOFLEX