



1/11

# SAFETY DATA SHEET

Preparation Date: 4/29/2016 Revision Date: 4/29/2016 Revision Number: G1

1. IDENTIFICATION

**Product identifier** 

Product code: L1023

Product Name: LANTHANUM OXIDE, REAGENT

Other means of identification

Synonyms: Dilanthanum oxide

Dilanthanum trioxide

Lanthana

Lanthania (La2O3)
Lanthanum(III) oxide
Lanthanum(3+) oxide
Lanthanum sesquioxide
Lanthanum triovida

Lanthanum trioxide

CAS #: 1312-81-8
RTECS # OE5330000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use:
Uses advised against
No information available.
No information available

Supplier: Spectrum Chemical Mfg. Corp

14422 South San Pedro St. Gardena, CA 90248

(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone number Chemtrec 1-800-424-9300

Contact Person:
Contact Person:
Ibad Tirmiz (East Coast)

## 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Serious eye damage/eye irritation Category 2B

Label elements

Product code: L1023 Product name: LANTHANUM OXIDE,

## Warning

#### Hazard statements

Causes eye irritation

#### Hazards not otherwise classified (HNOC)

Not Applicable

#### Other hazards

Not available

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

#### **Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Lanthanum Oxide	1312-81-8	100
1312-81-8		

## 4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call 1-800-222-

1222.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and

shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention.

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

#### Most important symptoms and effects, both acute and delayed

**Symptoms** Irritating to eyes. Mild eye irritation.

## Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

#### **Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

#### 5. FIRE-FIGHTING MEASURES

Product code: L1023 Product name: LANTHANUM OXIDE, 2/11

#### **5. FIRE-FIGHTING MEASURES**

**Extinguishing Media** 

Suitable Extinguishing Media: The product is not flammable. If it is involved in a fire,

extinguish the fire using an agent suitable for the type of

surrounding fire.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: No information available.

Specific hazards: No information available.

**Special Protective Actions for Firefighters** 

Specific Methods: No information available.

**Special Protective Equipment for Firefighters:** As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

## 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Do not touch

damaged containers or spilled material unless wearing appropriate protective clothing. Avoid

contact with skin, eyes and clothing. Use personal protective equipment.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains. Prevent from entering into soil, ditches, sewers, waterways, and/or ground

water

#### Methods and material for containment and cleaning up

**Methods for containment** Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Avoid creating dust. Clean

contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

#### Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

## Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not ingest. Do not breathe vapors/dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

#### Conditions for safe storage, including any incompatibilities

## **Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Product code: L1023 Product name: LANTHANUM OXIDE, 3 / 11

#### **Incompatible Materials:**

Strong acids. Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Control parameters**

#### National occupational exposure limits

#### **United States**

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
Lanthanum Oxide	None	None	None	None
1312-81-8				

#### Canada

Components	Alberta	British Columbia	Ontario	Quebec
Lanthanum Oxide	None	None	None	None
1312-81-8				

#### **Australia and Mexico**

Components	Australia	Mexico
Lanthanum Oxide	None	None
1312-81-8		

#### Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

#### Individual protection measures, such as personal protective equipment

#### **Personal Protective Equipment**

**Eye protection:** Goggles

**Skin and body protection:** Long sleeved clothing. Chemical resistant apron. Gloves.

**Respiratory protection:** Effective dust mask. or. Wear respirator with dust filter. Use a dust respirator under

conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use

an approved/certified respirator or equivalent. .

**Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product. When using, do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Product code: L1023 Product name: LANTHANUM OXIDE, 4/11

9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Appearance: Color: Solid Amorphous powder. White.

Odor:TasteFormula:None.No information availableLa2O3

Molecular/Formula weight: Flammability: Flashpoint (°C/°F):

No information available No information available.

Flash Point Tested according to: Autoignition Temperature (°C/°F): Lower Explosion Limit (%): Not applicable No information available No information available

Upper Explosion Limit (%):pH:Melting point/range(°C/°F):No information availableNo information available2307 °C/4184.6 °F

To information available 2507 0/4104.0 1

Decomposition temperature(°C/°F): Boiling point/range(°C/°F): Bulk density:

No information available 
No information available 
No information available

Density (g/cm3): Specific gravity: Vapor pressure @ 20°C (kPa):

No information available 6.51 No information available

**Evaporation rate:** Vapor density: VOC content (g/L):
No information available

No information available

Odor threshold (ppm): Partition coefficient Viscosity:

No information available (n-octanol/water): No information available

No information available

Miscibility:Solubility:No information availableInsoluble in water

#### 10. STABILITY AND REACTIVITY

Reactivity

May react with strong oxidizers Reactive with strong acids

**Chemical stability** 

Stability: Stable under recommended storage conditions

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

**Conditions to avoid:** Incompatible materials.

Incompatible Materials: Strong acids. Strong oxidizing agents.

Hazardous decomposition products: No information available

**Other Information** 

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

## 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product code: L1023 Product name: LANTHANUM OXIDE, 5/11

#### **Principal Routes of Exposure:**

Ingestion. Inhalation. Skin.

#### **Acute Toxicity**

## **Component Information**

Lanthanum Oxide - 1312-81-8

LD50/oral/rat = >8500 mg/kg LD50/oral/mouse = 2450 mg/kg

LD50/dermal/rabbit = No information available LD50/dermal/rat = No information available LC50/inhalation/rat = No information available LC50/inhalation/mouse = No infomation available

Other LD50 or LC50information = No information available

#### **Product Information**

LD50/oral/rat =

VALUE- Acute Tox Oral = >8500mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = 2450mg/kg

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available VALUE-Gas = No information available VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

**Symptoms** 

**Skin Contact:** May cause skin irritation.

**Eye Contact:** Mild eye irritation.

**Inhalation** May cause respiratory tract irritation.

**Ingestion** Health injuries are not known or expected under normal use.

Aspiration hazard No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity No information available

Sensitization: No information available

No information available **Mutagenic Effects:** 

Carcinogenic effects: Not considered carcinogenic.

Components	IARC	ACGIH -	NTP	OSHA HCS -	Australia - Notifiable	Australia - Prohibited
-		Carcinogens		Carcinogens	Carcinogenic	Carcinogenic
		_		_	Substances	Substances
Lanthanum Oxide	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

No data is available Reproductive toxicity

**Reproductive Effects:** No information available **Developmental Effects:** No information available **Teratogenic Effects:** No information available

**Specific Target Organ Toxicity** 

STOT - single exposure No information available STOT - repeated exposure **Target Organs:** 

No information available No information available

## 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

**Ecotoxicity effects:** No data available.

Persistence and degradability: No information available No information available Bioaccumulative potential:

**Mobility:** No information available

## 13. DISPOSAL CONSIDERATIONS

## **Disposal Methods**

#### Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

#### Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Lanthanum Oxide	None	None	None	None

## 14. TRANSPORT INFORMATION

Product name: LANTHANUM OXIDE, Product code: L1023 7/11

## 14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

**Proper Shipping Name:** No information available **Hazard Class:** No information available **Subsidiary Risk:** No information available

**Packing Group:** None

**ERG No:** No information available

Marine Pollutant No data available

No information available DOT RQ (lbs): Special Provisions No Information available Symbol(s): No information available

TDG (Canada)

UN-No: Not Regulated

**Proper Shipping Name:** No information available **Hazard Class:** No information available **Subsidiary Risk:** No information available **Packing Group:** No information available Marine Pollutant No Information available

ADR

Not Regulated UN-No:

No information available **Proper Shipping Name: Hazard Class:** No information available No information available **Packing Group:** No information available **Subsidiary Risk:** 

**IMO / IMDG** 

Not Regulated UN-No:

**Proper Shipping Name:** No information available **Hazard Class:** No information available **Subsidiary Risk:** No information available **Packing Group:** No information available **Marine Pollutant** No information available

RID

Not Regulated UN-No:

**Proper Shipping Name:** No information available **Hazard Class:** No information available **Subsidiary Risk:** No information available **Packing Group:** No information available

**ICAO** 

UN-No: Not Regulated

No information available **Proper Shipping Name: Hazard Class:** No information available **Subsidiary Risk:** No information available No information available **Packing Group:** 

**IATA** 

Product code: L1023

UN-No: Not Regulated

No information available **Proper Shipping Name:** No information available **Hazard Class: Subsidiary Risk:** No information available **Packing Group:** No information available

## 14. TRANSPORT INFORMATION

**ERG Code:** No information available **Special Provisions** No information available

## 15. REGULATORY INFORMATION

#### International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Lanthanum Oxide	Present	Present KE- 21836	Present	Present (1)- 757	Present	Present	Present 215-200-5

## **U.S. Regulations**

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

#### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

## Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Lanthanum Oxide	Not Listed	Not Listed	Not Listed	Not Listed

#### **CERCLA/SARA**

Components	CERCLA - Hazardous Substances and their Reportable Quantities	Hazardous	Hazardous	Chemical Category	Section 313 - Reporting de minimis
	Reportable Quantities	Substances and TPQS	Substances and Rus		
Lanthanum Oxide	None	None	None	None	None

## U.S. TSCA

•	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Lanthanum Oxide	Not Applicable	Not Applicable

#### Canada

## WHMIS hazard class:

D2B Toxic materials

## **Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

#### Inventory

Components	Canada (DSL)	Canada (NDSL)
Lanthanum Oxide	Present	Not Listed

Components	CEPA Schedule I - Toxic Substances
Lanthanum Oxide	Not listed

Product code: L1023 Product name: LANTHANUM OXIDE, 9 / 11

Components	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting	
Lanthanum Oxide	Not listed	

## **EU Classification**

R-phrase(s)
R36 - Irritating to eyes.

S-phrase(s)
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Components	Classification	Concentration Limits:	Safety Phrases
Lanthanum Oxide		No information	

## The product is classified in accordance with Annex VI to Directive 67/548/EEC

## Indication of danger:

Xi - Irritant.



# **16. OTHER INFORMATION**

Product code: L1023

Product name: LANTHANUM OXIDE, **REAGENT** 

10/11

## 16. OTHER INFORMATION

Preparation Date:4/29/2016Revision Date:4/29/2016Prepared by:Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet** 

Product name: LANTHANUM OXIDE, REAGENT