



## Material Safety Data Sheet

### Lanthanum Chloride

#### 1. Product Identification

**Synonyms:** LANTHANUM

CHLORIDE; CAS No.: 24614-58-2

**Molecular Weight:** 245.26 **Chemical**

**Formula:** La Cl<sub>3</sub>

#### 2. Composition

Ingredient	CAS No	Percent
Lanthanum Chloride	24614-58-2	100%

#### 3. Hazards Identification

##### Emergency Overview

CAUTION!MAYBEHARMFULIFSWALLOWEDORINHALED.MAYCAUSEEYE IRRITATION.AFFECTS THE BLOOD.

##### Potential Health Effects

LanthanumChloridehasanticoagulanteffects on the blood,resultinginincreased



---

clotting time.

**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.

**Note to Physician:**

Consider determining blood serum hemoglobin values. Values of about 9% would be indicative of overexposure.

---

## 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 facepiece operated in the pressure demand or other positive pressure mode.

---

## 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. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

**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 block. **Odor:**

Odorless.

**Solubility:** Insoluble in water. **Density:**

3.84 g/mL at 25 °C(lit.) **pH:** Alkaline

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

**Point:** 860 °C(lit.)

**Melting Point:** 1812 °C(lit.)

**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.

## 11. Toxicological Information

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

Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
Lanthanum Chloride (24614-58-2)	No	No	None

## 12. Ecological Information

**Environmental Fate:** No information found. **Environmental**

**Toxicity:** No information found.

## 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

## 14. Transport Information

Not regulated.



**15. Regulatory Information**

-----\Chemical Inventory Status - Part 1\-----				
Ingredient	TSCA	EC	Japan	Australia
Lanthanum Chloride (24614-58-2)	Yes	Yes	Yes	Yes

-----\Chemical Inventory Status - Part 2\-----				
Ingredient	--Canada--			
	Korea	DSL	NDSL	Phil.
Lanthanum Chloride (24614-58-2)	Yes	Yes	No	Yes

-----\Federal, State & International Regulations - Part 1\-----				
Ingredient	-SARA 302-		-----SARA 313-----	
	RQ	TPQ	List	Chemical Catg.
Lanthanum Chloride (24614-58-2)	No	No	No	No

-----\Federal, State & International Regulations - Part 2\-----				
Ingredient	CERCLA	-RCRA-	-TSCA-	
		261.33	8(d)	
Lanthanum Chloride (24614-58-2)	No	No		
	No			

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No  
 SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No Reactivity: Yes  
 (Pure / Solid)

**Australian Hazchem Code:** None allocated. **Poison**

**Schedule:** None allocated.

**WHMIS:** This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.



---

## 16. Other Information

**NFPA Ratings:** Health: **1** Flammability: **0** Reactivity: **1** Other: **Water**

**Label Hazard Warning:** CAUTION! MAY BE HARMFUL IF SWALLOWED OR INHALED. MAY CAUSE EYE IRRITATION. AFFECTS THE BLOOD.

**Label Precautions:**

Avoid breathing dust. Keep container closed.

Use with adequate ventilation.

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

**Label First Aid:**

If swallowed, give large amounts of water to drink. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. Get medical attention for any breathing difficulty. In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

**Product Use:** Laboratory Reagent.

**Revision Information:** No Changes.