



INTATRADE  
**MATERIAL SAFETY DATA SHEET**  
according to 1907/2006/EC, Article 31

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**1. IDENTIFICATION OF SUBSTANCE AND OF THE COMPANY**

Product name: **Lanthanum (III) chloride**  
Product code: EO02385  
Company: INTATRADE Chemicals GmbH  
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**2. HAZARDS IDENTIFICATION**

Hazard designation: Xi Irritant  
Information pertaining to particular dangers for man and environment: R 36/37/38 Irritating to eyes, respiratory system and skin.  
GHS label elements:

**Warning**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
Prevention: P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
Response: P302+ P352 IF ON SKIN: Wash with plenty of soap and water.  
P305+ P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Storage: P321 Specific treatment (see on this label).  
Disposal: P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical characterization  
Designation: Lanthanum(III) chloride  
CAS-No.: 10099-58-8  
EC-No.: 233-237-5

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**4. FIRST AID MEASURES**

After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.  
Seek immediate medical advice.  
After skin contact Instantly wash with water and soap and rinse thoroughly.  
Seek immediate medical advice.  
After eye contact Rinse opened eye for several minutes under running water. Then consult doctor.

After swallowing

Seek medical treatment.

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## 5. FIRE FIGHTING MEASURES

Suitable extinguishing agents: CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet.  
Special hazards caused by the material, its products of combustion or flue gases: Can be released in case of fire:  
Protective equipment: Hydrogen chloride (HCl)  
Wear self-contained breathing apparatus.  
Wear full protective suit.

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## 6. ACCIDENTAL RELEASE MEASURES

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Measures for environmental protection: Do not allow material to be released to the environment without proper governmental permits.  
Measures for cleaning/collecting: Collect mechanically.

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## 7. HANDLING AND STORAGE

Handling  
Information for safe handling: Handle under dry protective gas.  
Keep containers tightly sealed.  
Store in cool, dry place in tightly closed containers.  
No special precautions necessary if used correctly.  
Information about protection against explosions and fires: No special measures required.  
Storage  
Requirements to be met by storerooms and containers: No special requirements.  
Information about storage in one common storage facility: Do not store together with oxidizing and acidic materials.  
Further information about storage conditions: This product is hygroscopic.  
Store under dry inert gas.  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed containers.

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## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.  
Components with critical values that require monitoring at the workplace: Not required.  
Personal protective equipment  
General protective and hygienic measures: The usual precautionary measures should be adhered to in handling the chemicals.  
Keep away from foodstuffs, beverages and food.  
Instantly remove any soiled and impregnated garments.  
Wash hands during breaks and at the end of the work.  
Breathing equipment: Use breathing protection with high concentrations.  
Eye protection: Safety glasses  
Body protection: Protective work clothing.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

EO02385

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## General Information

Form: Powder  
Colour: White  
Smell: Odourless

## Change in condition

Melting point/Melting range: 860°C  
Boiling point/Boiling range: 1000°C  
Sublimation temperature / start: Not determined

Flash point: Not applicable  
Inflammability (solid, gaseous): Product is not inflammable.  
Ignition temperature: Not determined  
Decomposition temperature: Not determined  
Danger of explosion: Product is not explosive.  
Critical values for explosion:  
Lower: Not determined  
Upper: Not determined  
Steam pressure: Not determined  
Density at 20°C: 3.842g/cm<sup>3</sup>  
Solubility in water: Soluble  
pH-value (100 g/l) at 20°C: 5

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## 10. STABILITY AND REACTIVITY

Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.  
Materials to be avoided: Water/moisture, Bases  
Dangerous reactions: No dangerous reactions known  
Dangerous products of decomposition: Hydrogen chloride (HCl), Metal oxide

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## 11. TOXICOLOGICAL INFORMATION

Acute toxicity:  
LD/LC50 values that are relevant for classification: Oral LD50 4184 mg/kg (rat)  
Primary irritant effect:  
on the skin: Irritant for skin and mucous membranes.  
on the eye: Irritant effect.  
Sensitization: No sensitizing effect known.  
Other information: Reproductive effects have been observed on tests with laboratory animals.  
(about experimental toxicology):  
Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.  
No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

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## 12. ECOLOGICAL INFORMATION

Additional ecological information  
General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water.  
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.  
Do not allow material to be released to the environment without proper governmental permits.

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## 13. DISPOSAL CONSIDERATIONS

Product  
Recommendation: Consult state, local or national regulations for proper disposal.  
Hand over to disposers of hazardous waste.  
Must be specially treated under adherence to official regulations.

Uncleaned packagings  
Recommendation: Disposal must be made according to official regulations.  
Recommended cleaning agent: Water, if necessary with cleaning agent.

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#### 14. TRANSPORT INFORMATION

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)  
ADR/RID-GGVS/E Class: None

Maritime transport IMDG/GGVSea:  
IMDG/GGVSea Class: None  
Marine pollutant: No

Air transport ICAO-TI and IATA-DGR:  
ICAO/IATA Class: None

Transport/Additional information: Not dangerous according to the above specifications.

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#### 15. REGULATORY INFORMATION

Designation according to  
EC guidelines: Observe the normal safety regulations when handling chemicals  
Code letter and hazard  
designation of product: Xi Irritant  
Risk phrases: 36/37/38 Irritating to eyes, respiratory system and skin.  
Safety phrases: 26 In case of contact with eyes, rinse immediately with plenty of  
water and seek medical advice.  
37 Wear suitable gloves.

National regulations  
Information about limitation of use: Employment restrictions concerning young persons must be observed.  
For use only by technically qualified individuals.  
Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

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#### 16. OTHER INFORMATION

##### Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Intatrade Chemicals GmbH shall not be held liable for any damage resulting from handling or from contact with the above product.