

## LTS Research Laboratories, Inc. Safety Data Sheet Lutetium chloride

## 1. Product and Company Identification

Trade Name: Lutetium chloride

Chemical Formula: LuCl<sub>3</sub>

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 37 Ramland Road
City: Orangeburg
State: New York
Zip Code: 10962
Country: USA

Tel #: 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

2. Hazards Identification

Signal Word: N/A Hazard Statements: N/A

Precautionary Statements: N/A

HMIS Health Ratings (0-4):

Health: Flammability: Physical: Research
On the top retories, Inc.

3. Composition

Chemical Family: Salt

Additional Names: Lutetium trichloride

Lutetium Chloride (LuCl<sub>3</sub>):

Percentage: 100 wt% CAS #: 10099-66-8 EC #: 233-240-1

4. First Aid Procedures

General Treatment: Seek medical attention if symptoms persist.

Special Treatment: None Important Symptoms: None

Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult.

Keep patient warm. Seek immediate medical attention.

Ingestion: Seek immediate medical attention.

Skin: Immediately wash affected area with mild soap and water. Remove any

contaminated clothing. Seek immediate medical attention.

Eyes: Flush eyes with water, blinking often for several minutes. Remove

contact lenses if present and easy to do. Continue rinsing. Seek

immediate medical attention.

5. Firefighting Measures Flammability: Non-flammable No special restrictions – use suitable extinguishing agent for Extinguishing Media: surrounding material and type of fire. Use full-face, self-contained breathing apparatus with full protective Spec. Fire Fighting Procedure: clothing to prevent contact with skin and eyes. See section 10 for decomposition products. 6. Accidental Release Measures If Material Is Released/Spilled: Wear appropriate respiratory and protective equipment specified in special protection information. Keep unprotected persons away. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust. **Environmental Precautions:** Isolate runoff to prevent environmental pollution. 7. Handling and Storage **Handling Conditions:** Wash thoroughly after handling. **Storage Conditions:** Store in a cool dry place in a tightly sealed container. Store apart from materials and conditions listed in section 10. Work/Hygienic Maintenance: 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. Provide sufficient ventilation to maintain concentration at or below Ventilation: threshold limit. 8. Exposure Controls and Personal Protection Permissible Exposure Limits: N/A Threshold Limit Value: N/A Properly operating chemical fume hood designed for hazardous Special Equipment: chemicals and having an average face velocity of at least 100 feet per minute. **Respiratory Protection: Dust Respirator** Protective Gloves: Nitrile rubber gloves with minimum thickness of 0.11 mm Eve Protection: Safety glasses or goggles Protective work clothing. Wear close-toed shoes and long **Body Protection:** sleeves/pants. 9. Physical and Chemical Characteristics Color White Form: Powder, Granules, Pellets, Sputtering target, Custom parts Odor: N/A Water Solubility: Soluble **Boiling Point:** N/A **Melting Point:** 905 °C Flash Point: N/A Autoignition Temperature: N/A Density: 3.98 g/cc

281.33 g/mol

Molecular weight:

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Oxidizing agents

Incompatible Conditions: None

Hazardous Decomposition Products: Metal oxide fume, hydrogen chloride gas, lutetium oxides

11. Toxicological Information

Potential Health Effects:

Eyes: May cause irritation
Skin: May cause irritation
Ingestion: May cause irritation
Inhalation: May cause irritation

Chronic: Lanthanons may cause delayed blood clotting leading to hemorrhages.

Exposure may also lead to sensitivity to heat, itching, and increased

awareness of odor and taste, and liver damage.

Signs & Symptoms: N/A

Aggravated Medical Conditions: N/A

Median Lethal Dose: 7,074 mg/kg for rat by mouth

Carcinogen: IARC: No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed human

carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by

NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by

OSHA.

12. Ecological Information

Aquatic Toxicity: N/A

Persistent Bioaccumulation Toxicity: Very Persistent, Very Bioaccumulative:

Notes:

N/A N/A

Do not allow material to be released to the environment without proper

governmental permits.

Do not allow undiluted product or large quantities to reach ground

water, water course or sewage system. Avoid transfer into the environment

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Not hazardous for transportation.

Hazard Class: N/A
Packing Group: N/A
UN Number: N/A
Proper Shipping Name: N/A

No	
N/A	
No	
	N/A

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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