

LTS Research Laboratories, Inc. Safety Data Sheet Lutetium Oxide

1. Product and Company Identification

Trade Name: Lutetium oxide

Chemical Formula: Lu₂O₃

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:
Hazard Statements:
None
Precautionary Statements:
None

HMIS Health Ratings (0-4):

Health:

Flammability: Physical:

Restarch koratories, inc

3. Composition

Chemical Family: Ceramic Additional Names: None

Lutetium oxide (Lu₂O₃):

Percentage: 0-100 wt% CAS #: 12032-20-1 EC #: 234-764-3

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.

Ingestion: Seek Medical Attention.

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

contaminated clothing.

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

contact lenses if present and easy to do. Continue rinsing

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 Wear appropriate respiratory and protective equipment specified in If Material Is Released/Spilled: special protection information. 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:** Handle under dry protective gas. Wash thoroughly after handling. **Storage Conditions:** Store in a cool dry place in a tightly sealed container. Store under dry inert gas. Store apart from materials and conditions listed in section 10. Do not use tobacco or food in work area. Wash thoroughly before Work/Hygienic Maintenance: eating and smoking. Do not blow dust off clothing or skin with compressed air. Ventilation: Provide sufficient ventilation to maintain concentration at or below threshold limit. - Research 8. Exposure Controls and Personal Protection Permissible Exposure Limits: N/A Threshold Limit Value: N/A None

Special Equipment:

Respiratory Protection: **Dust Respirator** Protective Gloves: Rubber gloves

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: **Odorless** Water Solubility: Insoluble **Boiling Point:** N/A Melting Point: 2487 °C Flash Point: N/A Autoignition Temperature: N/A Density: 9.42 g/cc Molecular weight: 397.94 g/mol

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10. Reactivity Stability: Stable under recommended storage conditions Reacts With: Water, Mineral acids, Oxidizing agents **Incompatible Conditions:** Water/moisture Hazardous Decomposition Products: Metal oxide fume 11. Toxicological Information Potential Health Effects: Eyes: May cause irritation Skin: May cause irritation Ingestion: May cause irritation Inhalation: May cause irritation Chronic: N/A Signs & Symptoms: N/A Aggravated Medical Conditions: N/A Median Lethal Dose: N/A Carcinogen: N/A 12. Ecological Information Aquatic Toxicity: Low Persistent Bioaccumulation Toxicity: No Very Persistent, Very Bioaccumulative: No Notes: N/A 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 15. Regulatory Information No Sec 302 Extremely Hazardous: Sec 304 Reportable Quantities: N/A

No

Sec 313 Toxic Chemicals:

16. Other Information

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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