

# LTS Research Laboratories, Inc. Safety Data Sheet Lutetium

# 1. Product and Company Identification

Trade Name: Lutetium Chemical Formula: Lu

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: Danger



Hazard Statements: H228: Flammable solid

H260: In contact with water releases flammable gases which may ignite

spontaneously

Precautionary Statements: P210: Keep away from heat/sparks/open flames/hot surfaces – No

smoking

P231+P232: Handle under inert gas. Protect from moisture

P280: Wear protective gloves/protective clothing/eye protection/face

protection

P370+P378: In case of fire: Use special powder for metal fires for

extinction

P402+P404: Store in a dry place. Store in a closed container P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4): Bulk Powder **Pieces** Health: 1 1 1 Flammability: 3 2 1 Physical: 2 1 1

# 3. Composition

Chemical Family: Metal Additional Names: None

Lutetium (Lutetium):

Percentage: 100 wt% CAS #: 7439-94-3 EC #: 231-103-0

4. First Aid Procedures General Treatment: Seek medical attention if symptoms persist. Special Treatment: None **Important Symptoms:** None Remove victim to fresh air. Supply oxygen if breathing is difficult. Inhalation: Seek medical attention Ingestion: Wash affected area with mild soap and water. Remove any Skin: contaminated clothing. Flush eyes with water, blinking often for several minutes. Remove Eyes: contact lenses if present and easy to do. Continue rinsing 5. Firefighting Measures Flammability: Flammable Extinguishing Media: Do not use water for metal fires – use CO<sub>2</sub>, sand, extinguishing powder. Spec. Fire Fighting Procedure: Use full-face, self-contained breathing apparatus with full protective 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. Store in a cool dry place in a tightly sealed container. Store under dry **Storage Conditions:** inert gas. 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. Ventilation: Provide sufficient ventilation to maintain concentration at or below threshold limit. 8. Exposure Controls and Personal Protection Permissible Exposure Limits: N/A Threshold Limit Value: N/A **Special Equipment:** None **Respiratory Protection: Dust Respirator** Protective Gloves: Rubber gloves Eye Protection: Safety glasses or goggles

Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

**Body Protection:** 

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9. P	hysical and Chemical Characteristics		
Color	Grey		
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts		
Odor:	Odorless		
Water Solubility:	Insoluble		
Boiling Point:	3402 °C		
Melting Point:	1663 °C		
Flash Point:	N/A		
Autoignition Temperature:	N/A		
Density:	9.84 g/cc		
Molecular weight:	174.97 g/mol		
	10. Reactivity		
Stability:	Stable under recommended storage conditions		
Reacts With:	Acids, Acid chlorides, Halogens, Oxidizing agents		
Incompatible Conditions:	Air, 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:	<sub>N/A</sub> C Research		
Aggravated Medical Conditions:	N/A		
Median Lethal Dose:	N/A		
Carcinogen:	N/A		
	17/11		
	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: Hazardous as powder:



Hazard Class: 4.1 Flammable solids, self-reactive substances and solid desensitized

explosives

Packing Group:

UN Number: UN3089

Proper Shipping Name: Metal powders, flammable, n.o.s. (Lutetium powder)

Hazardous: Hazardous as pieces:



Hazard Class: 4.1 Flammable solids, self-reactive substances and solid desensitized

explosives

Packing Group:

UN Number: UN3178

Proper Shipping Name: Flammable solid, inorganic, n.o.s. (Lutetium)

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Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: N/A Sec 313 Toxic Chemicals: No

#### 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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