

LTS Research Laboratories, Inc. Safety Data Sheet Dysprosium (III) iodide

1. Product and Company Identification

Trade Name: Dysprosium (III) iodide

Chemical Formula: DyI₃

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: H317: May cause an allergic skin reaction

H334: May cause allergy or asthma symptoms or breathing difficulties

if inhaled

H361: Suspected of damaging fertility or the unborn child

Precautionary Statements: P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and

understood.

P261: Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P272: Contaminated work clothing should not be allowed out of the

workplace.

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

protection

P284: Wear respiratory protection

P302+P352: IF ON SKIN: Wash with plenty of soap and water. P308+P313: IF exposed or concerned: Get medical advice/ attention. P333+P313: If skin irritation or rash occurs: Get medical advice/

attention.

P342+P311: If experiencing respiratory symptoms: Call a POISON

CENTER or doctor/physician.

P363: Wash contaminated clothing before reuse.

P405: Store locked up.

P501: Dispose of contents/ container to an approved waste disposal

plant.

HMIS Health Ratings (0-4):

Health: 2 Flammability: 0 Physical: 1

	3. Composition
Chemical Family: Additional Names:	Salt Dysprosium iodide
Dysprosium (III) iodide (DyI ₃): Percentage: CAS #: EC #:	100 wt% 15474-63-2 239-493-4
	4. First Aid Procedures
General Treatment: Special Treatment: Important Symptoms:	Seek medical attention if symptoms persist. None None
Inhalation: Ingestion: Skin: Eyes:	Remove victim to fresh air. Supply oxygen if breathing is difficult. Keep patient warm. Seek immediate medical attention. Seek immediate medical attention. Immediately wash affected area with mild soap and water. Remove any contaminated clothing. Seek immediate medical attention. 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, except as powder
Extinguishing Media: Spec. Fire Fighting Procedure:	No special restrictions—use suitable extinguishing agent for surrounding material and type of fire. 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
If Material Is Released/Spilled: Environmental Precautions:	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. Isolate runoff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions: Storage Conditions: Work/Hygienic Maintenance:	Wash thoroughly after handling. Store in a cool dry place in a tightly sealed container. Store under dry inert gas. Store away from oxidizing agents, water/moisture. This product is hygroscopic. Protect from humidity and water. Store apart from materials and conditions listed in section 10. Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with
Ventilation:	compressed air. 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: Properly operating chemical fume hood designed for hazardous

chemicals and having an average face velocity of at least 100 feet per

minute.

Respiratory Protection:

Protective Gloves:

Rubber gloves

Eye Protection: Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics

Color Green, yellow

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor: N/A
Water Solubility: Soluble
Boiling Point: N/A
Melting Point: 955 °C
Flash Point: N/A
Autoignition Temperature: N/A
Density: N/A

Molecular weight: 543.21 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Oxidizing agents
Incompatible Conditions: Water/moisture

Hazardous Decomposition Products: Metal oxide fume, hydrogen iodide

11. Toxicological Information

Potential Health Effects:

Eyes: Causes eye irritation

Skin: May cause skin irritation or allergic reaction

Ingestion: May cause irritation

Inhalation: May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

Chronic: Prolonged exposure to iodides may produce iodism in sensitive

individuals. Symptoms of exposure include: skin rash, running nose, headache and irritation of the mucous membrane. For severe cases the skin may show pimples, boils, hives, blisters and black and blue spots. Iodides are readily diffused across the placenta. Neonatal deaths from respiratory distress secondary to goiter have been reported. Iodides have been known to cause drug-induced fevers, which are usually of short duration. Lanthanons can cause delayed blood clotting leading to hemorrhages. Exposure may also lead to sensitivity to heat, itching,

increased awareness of odor and taste, and liver damage.

Signs & Symptoms: Burning sensation, cough, wheezing, larvngitis, shortness of breath.

headache, nausea, vomiting, drowsiness, ataxia, irregular breathing.

Aggravated Medical Conditions: N/A

Median Lethal Dose: N/A

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.

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

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

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: N/A

Very Persistent, Very Bioaccumulative:

N/A

Notes:

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

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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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