

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

1. Product and Company Identification

Trade Name: Dysprosium (III) bromide

Chemical Formula: DyBr₃

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: Warning



Hazard Statements: H315: Causes skin irritation

H319: Causes serious eye irritation H335: May cause respiratory irritation

Precautionary Statements: P261 Avoid breathing dust/fume/vapor

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

protection

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest

in a position comfortable for breathing

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do –

continue rinsing P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 1 Flammability: 0 Physical: 1

	3. Composition
Chemical Family:	Nonmetal
Additional Names:	Dysprosium tribromide
Dysprosium (III) bromide (DyBr ₃):	
Percentage:	100 wt%
CAS #:	14456-48-5
EC #:	238-443-9
	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.
Insertions	Keep patient warm. Seek immediate medical attention.
Ingestion: Skin:	Seek immediate medical attention. Wash affected area with mild soap and water. Remove any
SKIII.	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
Extinguishing Madia:	No special restrictions—use suitable extinguishing agent for
Extinguishing Media:	surrounding material and type of fire.
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective
Z	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
Environmental Precautions:	container for disposal. Take care not to raise dust. Isolate runoff to prevent environmental pollution.
Environmental Flecautions.	Isolate fulloff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions:	Handle under dry protective gas. Avoid contact with the eyes and skin.
Storage Conditions:	Wash thoroughly after handling. Store in a cool dry place in a tightly sealed container. Store away from
Storage Conditions.	water/moisture, oxidizing agents. Store under dry inert gas. This
	product is hygroscopic. Protect from humidity and water. 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: 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 White to pale grey

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

Odor: N/A
Water Solubility: Soluble
Boiling Point: 1,480 °C
Melting Point: 881 °C
Flash Point: N/A
Autoignition Temperature: N/A
Density: N/A

Molecular weight: 402.21 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 bromide

11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious eye irritation
Skin: Causes skin irritation
Ingestion: May cause irritation

Inhalation: May cause respiratory irritation

Chronic: N/A

Signs & Symptoms: N/A
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

ACGIH.

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:	N/A
Very Persistent, Very Bioaccumulative:	N/A
Notes:	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
	14. Transportation Data
	Not hazardous for transportation.
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Hazard Class: Packing Group:	Not hazardous for transportation. N/A N/A
Hazard Class: Packing Group: UN Number:	Not hazardous for transportation. N/A N/A N/A
Hazard Class: Packing Group: UN Number:	Not hazardous for transportation. N/A N/A
Hazardous: Hazard Class: Packing Group: UN Number: Proper Shipping Name:	Not hazardous for transportation. N/A N/A N/A
Hazard Class: Packing Group: UN Number:	Not hazardous for transportation. N/A N/A N/A N/A N/A
Hazard Class: Packing Group: UN Number: Proper Shipping Name: Sec 302 Extremely Hazardous: Sec 304 Reportable Quantities:	Not hazardous for transportation. N/A N/A N/A N/A N/A 15. Regulatory Information
Hazard Class: Packing Group: UN Number: Proper Shipping Name: Sec 302 Extremely Hazardous:	Not hazardous for transportation. N/A N/A N/A N/A N/A N/A N/A N/

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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