



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Dysprosium (III) Bromide Anhydrous**

PRODUCT NO: 1635

CAS NO: 14456-48-5

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Warning

Hazard Statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary Phrases

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash face, hands, and any exposed skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
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.
P362	Tak off contaminated clothing and wash before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

HMIS CLASSIFICATION:

Health: 2

Flammability: 0

Reactivity: 1

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

NFPA RATING:

Health: 2

Fire: 0

Reactivity Hazard: 1

EYE CONTACT: Causes serious eye irritation.**SKIN CONTACT:** Causes skin irritation.**INHALATION:** May be irritating to the respiratory tract.**INGESTION:** May cause irritation.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: DyBr₃

Molecular Weight: 402.23

CHEMICAL NAME	CAS#	%
Dysprosium (III) Bromide	14456-48-5	100

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.**SKIN EXPOSURE:** Wash affected area immediately with plenty of water for at least 15 minutes. Seek medical assistance if irritation or redness persists.**INHALATION:** Remove victim to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.**INGESTION:** Rinse mouth with water and drink plenty of water afterwards. Get medical attention if symptoms occur.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Not applicable**AUTO IGNITION TEMPERATURE:** Not applicable**EXPLOSION LIMITS:** Not applicable**EXTINGUISHING MEDIUM:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.**SPECIAL FIRE FIGHTING PROCEDURES:** If this product is involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing. Use water spray to cool fire-exposed containers and structures.**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Hydrogen bromide and metal oxides.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.**ENVIRONMENTAL PRECAUTIONS:** Should not be released to the environment. Do not allow material to contaminated ground water systems.**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Sweep up and place in well-marked container for disposal.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid ingestion and inhalation. Avoid dust formation. Do not get in eyes, on skin, or on clothing.**CONDITIONS FOR SAFE STORAGE:** Keep container tightly closed. Store under an inert atmosphere. Protect from moisture, incompatible materials, and oxidizing agents.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EYE PROTECTION: Always wear approved safety glasses with side shields, or safety goggles, face shield when handling a chemicals substance in the laboratory.

SKIN PROTECTION: Chemical resistant gloves.

VENTILATION: If possible, handle the material in an efficient fume hood.

RESPIRATOR: If ventilation is not available, a high efficiency dust respirator should be worn. The use of respirators requires a Respirator Protection Program to be in compliance with 29CFR 1910.34

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: White to light grey solid

MELTING POINT: 881° C

BOILING POINT: 1480° C

MOLECULAR WEIGHT: 402.23

ODOR: No data available

SPECIFIC GRAVITY: No data available

VAPOR PRESSURE: No data available

SOLUBILITY IN WATER: No data available

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Hygroscopic

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Exposure to moisture

INCOMPATIBILITY: Oxidizing agents

DECOMPOSITION PRODUCTS: Hydrogen bromide and metal oxides.

SECTION 11 TOXICOLOGICAL DATA

CARCINOGENIC EFFECTS: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.

MUTAGENIC EFFECTS: No data

TETRATOGENIC EFFECTS: No data

RTECS: No data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 ECOLOGICAL DATA

No information available

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state and federal regulations.

SECTION 14 TRANSPORTATION DATA

Non-hazardous material

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA Inventory

SARA 302 COMPONENTS: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA (TITLE 313): Title compound not listed

CALIFORNIA PROP. 65 COMPONENTS: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16 OTHER INFORMATION

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, ProChem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

DATE PREPARED: 10/24

SDS DEPT.