



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Lutetium (III) bromide, hydrate**

PRODUCT NO: 2395-1

CAS NO: 29843-94-5

MANUFACTURER:

Prochem, Inc.
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Rockford, IL 61109

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IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC: 1-800-424-9300

SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Not a dangerous substance according to the GHS

HMIS CLASSIFICATION:

Health: 0 Flammability: 0 Reactivity: 0

NFPA RATING:

Health: 0 Fire: 0 Reactivity Hazard: 0

EYE CONTACT: May cause irritation of the eyes.

SKIN CONTACT: May irritate skin.

INHALATION: May cause irritation to nose, throat, and respiratory tract.

INGESTION: May be harmful if swallowed.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $\text{LuBr}_3 \cdot \text{XH}_2\text{O}$

Molecular Weight: 414.68

CHEMICAL NAME	CAS#	%	ACGIH (TWA)	OSHA (PEL)
Lutetium bromide, hydrate	29843-94-5	100	Not determined	Not determined

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water (lukewarm if possible) for several minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get medical attention if redness or irritation persists.

SKIN EXPOSURE: Wash affected area with soap and water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.

INHALATION: Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases, seek immediate medical assistance. Give oxygen if deemed necessary. If not breathing administer CPR. Get emergency care immediately.

INGESTION: Wash out mouth with water, provided person is conscious. Consult a physician.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Not applicable

AUTO IGNITION TEMPERATURE: Not applicable

EXPLOSION LIMITS: Not applicable

EXTINGUISHING MEDIUM: Water spray, Carbon dioxide, and dry chemical powder

SPECIAL FIRE FIGHTING PROCEDURES: No special fire fighting procedures required. Use normal conditions, which include wearing NIOSH/MSHA approved self-contained breathing apparatus, flame and chemical resistant clothing, hats, boots, and gloves.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Hydrogen bromide gas, and lutetium oxide.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear appropriate respiratory and protective equipment to avoid exposure with material.

ENVIRONMENTAL PRECAUTIONS: Do not let product enter drains or be released into the environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Sweep up avoiding raising dust and place in a well-marked container for disposal.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Avoid inhalation. Avoid contact with skin, eyes, and clothing. Avoid prolonged or repeated exposure.

CONDITIONS FOR SAFE STORAGE: Store in a tightly sealed container. Keep in a dry area. Store away from strong oxidizing agents.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

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

SKIN PROTECTION: Chemical resistant gloves.

VENTILATION: Chemical fume hood.

RESPIRATOR: Where adequate ventilation is not available a dust respirator should be worn.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: White powder

MELTING POINT: 1,025° C

BOILING POINT: No data

MOLECULAR WEIGHT: 414.68

ODOR: No data available

SPECIFIC GRAVITY: No data

% VOLATILE BY VOLUME: Non volatile

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES (Cont.)

VAPOR PRESSURE: Not applicable

SOLUBILITY IN WATER: No data

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: None known

INCOMPATIBILITY: Strong oxidizing agents

DECOMPOSITION PRODUCTS: Hydrogen bromide gas and metal oxide fumes.

SECTION 11 TOXICOLOGICAL DATA

RTECS DATA: No 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

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): This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

MASSACHUSETTS RIGHT TO KNOW COMPONENTS: No components are subject to the Massachusetts Right to Know Act.

PENNSYLVANIA RIGHT TO KNOW COMPONENTS: Lutetium (III) bromide hydrate

NEW JERSEY RIGHT TO KNOW COMPONENTS: Lutetium (III) bromide hydrate

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.

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SDS DEPT.