



SAFETY DATA SHEET

ProChemOnline.com



SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Lutetium, Powder**

PRODUCT NUMBER: 2386

CAS NUMBER: 7439-94-3

MANUFACTURER:

Prochem, Inc.
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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

Pictogram



Signal Word

Danger

Hazard Statements

H228	Flammable solid.
H260	In contact with water releases flammable gases which may ignite spontaneously.

Precautionary Phrases

P210	Keep away from heat/sparks/open flames/hot surfaces.
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 dry sand, dry chemical or alcohol-resistant foam for extinction.
P402+P404	Store in a dry place. Store in a closed container.

HMIS CLASSIFICATION:

Health: 1 Fire: 3 Reactivity Hazard: 2

NFPA RATING:

Health: 1 Flammability: 3 Reactivity Hazard: 2 Specific Hazard:

EYE CONTACT: May cause slight to mild irritation of the eyes.

SKIN CONTACT: May cause slight to mild irritation of the skin.

INHALATION: May be irritating to the nasal cavity, mucous membranes, and respiratory tract.

INGESTION: No specific data available.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: Lu

Molecular Weight: 174.97

CHEMICAL NAME	CAS#	%
Lutetium	7439-94-3	100

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes. Assure flushing under eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

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

INHALATION: Remove to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

INGESTION: Seek medical assistance immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Not available

AUTO IGNITION TEMPERATURE: Not available

EXPLOSION LIMITS: Dust may form explosive mixtures with air.

EXTINGUISHING MEDIUM: Special powder for metal fires. Do NOT use water. Contact with water liberate extremely flammable gases.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots. Flammable solid. Burns with intense heat.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Lutetium oxide and carbonate

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear all appropriate equipment when using this material. Ensure adequate ventilation. Avoid the formation of dust. Avoid breathing vapors, mist, gas, or dust. Keep away from ignition sources

ENVIRONMENTAL PRECAUTIONS: Prevent spillage from entering drains or allowing to be released into the environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Cover spill with sodium carbonate or dolomite. Sweep up and place in suitable container for proper disposal.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear appropriate personal protective equipment. Avoid contact with skin and eyes. Use with adequate ventilation. Avoid formation of dusts and aerosols. Handle under dry protective gas. Protect against electrostatic charge.

CONDITIONS FOR SAFE STORAGE: Store in cool, dry, and well-ventilated area. Store away from oxidizing agents, water, moisture, halogens, acid chlorides, and acids. Store under dry inert gas. This product is moisture and air sensitive – protect from humidity and water.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE CONTROLS: Contains no substances with occupational exposure limit values.

EYE PROTECTION: Wear chemical safety glasses or goggles and face shield.

SKIN PROTECTION: Wear nitrile or rubber gloves, and a complete suit protecting against chemicals.

VENTILATION: Provide local exhaust, preferably mechanical.

RESPIRATOR: Use an approved respirator.

ADDITIONAL PROTECTION: Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Silver to gray powder

ODOR: None

MOLECULAR WEIGHT: 174.97

BOILING POINT: 3327°C

MELTING POINT: 1663°C

SPECIFIC GRAVITY: 9.842 gm/ml

VAPOR DENSITY: No data available

SOLUBILITY: Insoluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Contact with water releases flammable gases that may ignite spontaneously

HAZARDOUS POLYMERIZATION: Reacts with strong oxidizing agents. Contact with water releases flammable gases.

CONDITIONS TO AVOID: Contact with hot water. Mixtures of fine dust with air.

INCOMPATIBILITY: Acids, water, alcohols, oxidizing agents, oxygen, halocarbons, mineral acids, and air.

DECOMPOSITION PRODUCTS: Lutetium oxide and carbonate

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: Not available

CARCINOGENIC EFFECTS: No components of this product present at levels greater than or equal to 0.1% is identified a carcinogen.

MUTAGENIC EFFECTS: Not available

TETRATOGENIC EFFECTS: Not available

CHRONIC TOXICITY: Not available

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

DOT: UN3089

Metal powders, flammable, n.o.s.

(ILutetium)

CLASS 4.1

PG II

IATA: UN3089

Metal powder, flammable, n.o.s.

(ILutetium)

CLASS 4.1

PG II

Marine Pollutant: No

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA inventory

SARA 302/304: Not Listed

SECTION 15 REGULATORY INFORMATION (Cont.)

SARA 311/312: Not Listed

SARA (TITLE 313): Not Listed

CALIFORNIA PROP. 65: Not Listed

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

NEW JERSEY RIGHT TO KNOW COMPONENTS: No components are subject to the New Jersey Right to Know Act.

PENNSYLVANIA RIGHT TO KNOW COMPONENTS: No components are subject to the Pennsylvania Right to Know Act.

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: 05/15

SDS DEPT.