



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Lutetium (III) 2,4-pentanedionate Hydrate**

PRODUCT NUMBER: 2428

CAS NUMBER: 86322-74-9

SYNONYMS: Lutetium Acetylacetonate Hydrate

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Not a dangerous substance or mixture according to GHS

HMIS CLASSIFICATION:

Health: 1 Fire: 1 Reactivity Hazard: 1

NFPA RATING:

Health: 1 Flammability: 1 Reactivity Hazard: 1

EYE CONTACT: Causes irritation of the eyes.

SKIN CONTACT: Causes irritation and redness of the eyes.

INHALATION: Causes irritation to nose, throat, and respiratory tract.

INGESTION: No data

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $\text{Lu}(\text{CH}_3\text{COCHCOCH}_3)_3 \cdot \text{XH}_2\text{O}$

Molecular Weight: 472.30 (anhy.)

CHEMICAL NAME	CAS#	%
Lutetium (III) 2,4-pentanedionate	86322-74-9	100

SECTION 4 FIRST AID MEASURES

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

SKIN EXPOSURE: Wash affected area with soap and water. Remove contaminated clothes if necessary. Seek medical assistance if irritation, burns, or redness persist.

SECTION 4 FIRST AID MEASURES (Cont.)

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 attention immediately. Keep the victim calm.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: This product is not flammable

AUTO IGNITION TEMPERATURE: Not available

EXPLOSION LIMITS: This product does not present an explosion hazard.

EXTINGUISHING MEDIUM: Carbon dioxide, extinguishing powder, or water spray. Fight larger fires with water spray or alcohol resistant foam.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Carbon oxides and Lutetium oxides

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.

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

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: 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.

CONDITIONS FOR SAFE STORAGE: Store in cool, dry, and well-ventilated area. Store away from oxidizing agents, acids, water, and moisture.

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: Solid

ODOR: None

MOLECULAR WEIGHT: 472.30 (anhy.)

BOILING POINT: No data available

MELTING POINT: 130-190°C

SPECIFIC GRAVITY: No data available

VAPOR DENSITY: No data available

SOLUBILITY: Insoluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Moisture

INCOMPATIBILITY: Oxidizing agents, acids, water, and moisture

DECOMPOSITION PRODUCTS: Carbon oxides and lutetium oxide

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: Suspected

CHRONIC TOXICITY: Not available

RTECS: No data

Lanthanons can cause delayed blood clotting leading to hemorrhages. Exposure may also lead to sensitivity heat, itching, increased awareness of odor and taste, and liver damage.

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

Not a dangerous good.

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA inventory

SARA 302/304: Not Listed

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.