

MATERIAL SAFETY DATA SHEET

This form may be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

IDENTITY (As Used on Label and List): **Lutetium metal, pieces**

Product Code: **L-MSDS0085** Reference #: **7439-94-3**

SECTION I - PRODUCT IDENTIFICATION

Lutetium metal, pieces

MANUFACTURER NAME AND ADDRESS:

ProChem, Inc.
826 Roosevelt Rd.
Rockford IL 61109

TELEPHONE NUMBERS:

CHEMTREC	(800)424-9300
ProChem, Inc.	(800) 795-8788
Local Poison/Emrgncy	() - 911

DATES:

Date Created:
03/26/1991
Revision: 01/24/1995
Printed: 01/28/2004

SYNONYMS

Lutetium metal; Cassiopeium

CHEMICAL FAMILY: Metal

DOT HAZARD LABEL: No data.

FORMULA: Lu

MOLECULAR WEIGHT: 174.97

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Lutetium metal, pieces

HAZARDOUS COMPONENTS (CHEMICAL NAME)

<u>NAME:</u>	Lutetium metal	<u>PERCENTAGE:</u>	0.0 -100.0 %
<u>CAS #:</u>	7439-94-3	<u>ACGIH TLV:</u>	NE
<u>OSHA PEL:</u>	NE	<u>SEC.304 RO:</u>	No
<u>OTHER LIMITS:</u>	NE		
<u>SEC.302 (EHS):</u>	No		
<u>SEC.313:</u>	No		

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Lutetium metal, pieces

PHYSICAL STATES:

[] Gas , [] Liquid , [X] Solid

BOILING POINT:

3402.00 C (6155.6 F)

MELTING POINT:

1663.00 C (3025.4 F)

SPECIFIC GRAVITY (WATER = 1):

8.84 gm/cc

DENSITY:

No data.

VAPOR PRESSURE (VS. AIR OR MM HG):

NA

VAPOR DENSITY (VS. AIR = 1):

NA

EVAPORATION RATE (VS BUTYL ACETATE=1): NA
SOLUBILITY IN WATER: NE
PERCENT VOLATILE: N.A.
PH: No data.
APPEARANCE AND ODOR

Silver metallic pieces, no odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA
Lutetium metal, pieces

FLASH PT: N.A. **METHOD USED:** NON-FLAMMABLE
EXPLOSIVE LIMITS: LEL: NA UEL: NA
EXTINGUISHING MEDIA

USE: Not applicable. Use suitable extinguishing agent for surrounding materials and type of fire.

SPECIAL FIRE FIGHTING PROCEDURES

Firefighters must wear full face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. Fumes from fire are hazardous. Isolate runoff to prevent environmental pollution.

UNUSUAL FIRE AND EXPLOSION HAZARDS

When heated to decomposition, lutetium metal may emit toxic fumes.

SECTION V - REACTIVITY DATA
Lutetium metal, pieces

STABILITY: Unstable [] Stable [X]
CONDITIONS TO AVOID - INSTABILITY

None

INCOMPATIBILITY - MATERIALS TO AVOID

Strong acids, strong oxidizing agents and halogens

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

None recorded

HAZARDOUS POLYMERIZATION: Will occur [] Will not occur [X]
CONDITIONS TO AVOID - HAZARDOUS POLYMERIZATION

None

SECTION VI - HEALTH HAZARD DATA
Lutetium metal, pieces

ROUTE(S) OF ENTRY: Inhalation? Yes , Skin? Yes , Eyes? Yes , Ingestion? Yes , Other: N