# **Otto Chemie Pvt Ltd**

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## MATERIAL DATA SAFETY SHEET

Lutetium(iii) oxide, 99.99%

Product Identifier Product Code L 1668 Product Description: Lutetium (III) oxide Synonyms Lutetium oxide

Relevant identified uses of the substance or mixture and uses advised against Recommended Use Laboratory chemicals Uses advised against No Information available

#### 2. HAZARDS IDENTIFICATION Classification of the substance or mixture REGULATION (EC) No 1272/2008

Not hazardous Classification according to EU Directives 67/548/EEC or 1999/45/EC For the full text of the R phrases mentioned in this Section, see Section 16 **R -phrase(s)** none Label Elements Signal Word None Hazard Statements Other Hazards No information available.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

 
 Component
 Lutetium oxide (Lu2O3) 12032-20-1

 EC No.
 EEC No. 234-764-3

 Weight %
 100

 CAS-No
 12032-20-1

 Classification
 GHSCLAS

 REACH Reg. No.
 East

For the full text of the R phrases mentioned in this Section, see Section 16

#### 4. FIRST AID MEASURES

Description of first aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes Obtain medical attention

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes Obtain medical attention

**Ingestion** Do not induce vomiting Never give anything by mouth to an unconscious person Drink plenty of water Clean mouth with water Get medical attention If possible drink milk afterwards

**Inhalation** Remove from exposure, lie down Move to fresh air If breathing is difficult, give oxygen If not breathing, give artificial respiration Obtain medical attention

Notes to Physician Treat symptomatically

#### 5. FIRE-FIGHTING MEASURES

#### Extinguishing media Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment Substance is nonflammable;

use agent most appropriate to extinguish surrounding fire.

Extinguishing media which must not be used for safety reasons

No information available.

Special hazards arising from the substance or mixture

Non-combustible

## Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective

gear Thermal decomposition can lead to release of irritating gases and vapors

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation Environmental precautions Prevent further leakage or spillage if safe to do so Methods and material for containment and cleaning up Sweep up or vacuum up spillage and collect in suitable container for disposal.

#### 7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid contact with skin and eyes Do not breathe dust Do not breathe vapors or spray mist Avoid contact with clothing Remove and

wash contaminated clothing before re-use Do not ingest Wash thoroughly after handling **Conditions for safe storage, including any incompatibilities** Keep in a dry, cool and well-ventilated place Keep container tightly closed Keep under nitrogen

**Specific End Uses** 

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Control parameters**

**Exposure limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration

(PNEC) No information available.

Exposure controls

Engineering Measures Ensure adequate ventilation, especially in confined areas Ventilation systems Personal protective equipment

Eye Protection Safety glasses with side-shields Goggles

Hand Protection Protective gloves

Skin and body protection Wear appropriate protective gloves and clothing to prevent skin exposure Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN

149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice Environmental exposure controls No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES Physical State Appearance odor pH

Powder, Solid White odorless No information available. Vapor Pressure Vapor Density Boiling Point/Range Melting Point/Range Flash Point Water Solubility Specific Gravity Molecular Formula Molecular Weight

**10. STABILITY AND REACTIVITY** 

ReactivityStable under normal conditions. Hygroscopic.Chemical StabilityStable under normal conditions. Hygroscopic.Possibility of Hazardous ReactionsNo information availableHazardous PolymerizationNo information availableHazardous ReactionsNo information availableConditions to AvoidIncompatible products, Exposure to moistureIncompatible MaterialsOxidizing agents, Strong oxidizing agents, Carbon dioxide (CO2)Hazardous Decomposition ProductsThermal decomposition can lead to release of irritating gases andvapors. Carbon monoxide (CO). Carbon dioxide (CO2)

# 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects Acute Toxicity Product Information No acute toxicity information is available for this product Component Information Chronic Toxicity Carcinogenicity There are no known carcinogenic chemicals in this product

**11. TOXICOLOGICAL INFORMATION** 

Sensitization Mutagenic Effects Reproductive Effects Developmental Effects Target Organs Endocrine Disruptor Information No information available No information available No information available No information available. No information available None known

#### **12. ECOLOGICAL INFORMATION**

ToxicityEcotoxicity effects Contains no substances known to be hazardous to the environment or that are not degradablein waste water treatment plantsPersistence and degradabilityBioaccumulative potentialMobility in soilResults of PBT and vPvB assessmentOther adverse effectsNo information available

#### **13. DISPOSAL CONSIDERATIONS**

Waste Disposal Comply with Federal, State, and local regulation. If approved, remove to land disposal area.

#### 14. TRANSPORT INFORMATION

IMDG/IMO	Not regulated
ADR	Not regulated
ΙΑΤΑ	Not regulated

No information available. No information available. No information available No information available No information available. Insoluble 9.420 Lu2 O3 397.94

#### **15. REGULATORY INFORMATION**

# Safety, health and environmental regulations/legislation specific for the substance or mixture International Inventories

Component EINECS ELINCS NLP TSCA DSL NDSL PICCS ENCS CHINA AICS KECL Lutetium oxide (Lu2O3) 234-764-3 - X X - - X - X KE-22646 X Legend TSCA - United States Toxic Substances Control Act Section 8(b) Inventory EINECS/ELINCS - European Inventory Lists DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List PICCS - Philippines Inventory of Chemicals and Chemical Substances ENCS - Japan Existing and New Chemical Substances CHINA - China Inventory of Existing Chemical Substances AICS - Inventory of Chemical Substances KECL - Existing and Evaluated Chemical Substances Chemical Safety Assessment

#### **16. OTHER INFORMATION**

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

OSHA: Occupational Safety & Health