

# SAFETY DATA SHEET

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## SECTION 1. IDENTIFICATION

**Product Identifier:** (4N) 99.99% Europium(III) Chloride

**Product Code:** EU3-CL-04

**CAS Number:** 10025-76-0

**Relevant identified uses of the substance:** Scientific research and development

Supplier details:

American Elements  
10884 Weyburn Ave.  
Los Angeles, CA 90024  
Tel: +1 310-208-0551  
Fax: +1 310-208-0351  
Emergency telephone number:  
+1 800-424-9300

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## SECTION 2. HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram None

Signal Word Warning

Hazard Statements

H303 May be harmful if swallowed.

Precautionary Phrases

None

HMIS CLASSIFICATION:

Health: 1 Flammability: 0 Reactivity: 0

NFPA RATING:

Health: 1 Fire: 0 Reactivity Hazard: 0

EYE CONTACT: May be a mild irritant to the eyes.

SKIN CONTACT: May cause slight irritation of the skin.

INHALATION: Inhalation of dust can lead to irritation of the respiratory tract.

INGESTION: May be harmful if swallowed.

ACUTE HEALTH EFFECTS: May be irritating to skin, eyes, and respiratory tract.

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### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Formula:  $\text{EuCl}_3$

Molecular Weight: 258.32

CHEMICAL NAME CAS# % ACGIH (TWA) OSHA (PEL)

Europium chloride, anhydrous 10025-76-0 100 No data No data

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### **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 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.

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

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### **SECTION 5. FIREFIGHTING MEASURES**

**FLASH POINT:** N/A

**Autoignition:** None

**EXPLOSION LIMITS:** None

**EXTINGUISHING MEDIUM:** Material is non-flammable. Use fire fighting measures that suit the surrounding fire.

**SPECIAL FIRE FIGHTING PROCEDURES:** If involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.

**HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:** Hydrogen chloride gas, Europium/europium oxides

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### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS:** Always use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, or gas.

Avoid breathing dust.

**ENVIRONMENTAL PRECAUTIONS:** Do not let product enter drains.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Small spills can be mixed with vermiculite or sodium carbonate and swept up.

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### **SECTION 7. HANDLING AND STORAGE**

**PRECAUTIONS FOR SAFE HANDLING:** Avoid formation of dust and aerosols. Provide appropriate

exhaust ventilation at places  
where dust is formed.

CONDITIONS FOR SAFE STORAGE: Store material in a tightly sealed container away from moisture.

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## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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

SKIN PROTECTION: Chemical resistant gloves.

VENTILATION: If possible, handle the material in an efficient fume hood.

RESPIRATOR: If in form of fine dust and ventilation is not available a respirator should be worn. The use of respirators requires a

Respirator Protection Program to be in compliance with 29 CFR 19-10.134.

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## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

COLOR AND FORM: White to yellow powder

MELTING POINT: 850° C

BOILING POINT: No data

MOLECULAR WEIGHT: 258.32 g/mole

ODOR: No data available

SPECIFIC GRAVITY: 4.89 gm/ml

VAPOR PRESSURE: No data

SOLUBILITY IN WATER: Soluble

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## **SECTION 10. STABILITY AND REACTIVITY**

STABILITY: Stable

HAZARDOUS POLYMERIZATION: No hazardous polymerization

CONDITIONS TO AVOID: None

INCOMPATIBILITY: Active metals and strong oxidizing agents.

DECOMPOSITION PRODUCTS: Hydrogen chloride gas, Europium/europium oxides

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## **SECTION 11. TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY: LD50 Oral – mouse – 3,257 mg/kg

RTECS DATA: Oral (mouse): LD50: 3527 mg/kg. Intraperitoneal (mouse): LD50: 387 mg/kg.

Intraperitoneal (guinea pig):

LD50: 156 mg.

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.

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## SECTION 12. ECOLOGICAL INFORMATION

No data available

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## SECTION 13. DISPOSAL CONSIDERATIONS

Dispose of in according to local, state and federal regulations.

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## SECTION 14. TRANSPORT INFORMATION

Non-hazardous material

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## 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: Europium (III) chloride, anhydrous

NEW JERSEY RIGHT TO KNOW COMPONENTS: Europium (III) chloride, anhydrous

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.

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## 16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2019 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.