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**Stanford Advanced Materials** 

We not only sell products, we provide satisfactions. 72 Fairbanks Suite 100, Irvine, CA 92618, USA Tel: (949) 407-8904 Fax: (949) 812-6690

> Current Version: 2.0 Revision Date: Sep 5, 2012

# Material Safety Data Sheet

Identity: Europium

Formula: Eu

SECTION I - GENERAL INFORMATION

Manufacturer: Stanford Advanced Materials (SAM)

The information below is believed to be accurate and represents the best information available to SAM. However, SAM makes no warranty, expressed or implied with respect to such information and assumes no liability resulting from its use.

## SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Molecular weight: 151.965

 CAS #
 OSHA PEL
 ACGIH TLV
 %

 7440-53-1
 N/A
 N/A
 0-100

#### SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

Physical States: Solid

Appearance and odor: Lustrous gray solid, odorless

Boiling Point: 1597 °C @ 760mm Hg Melting Point: 822 °C Rate: N/A Solubility in water: Insoluble Vapor Pressure (vs. air or mmHg): N/A Density: 5.24g/cm<sup>3</sup> at 25 °C Evaporation Flash Point: N/A

# SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

Explosive Limits: LEL: N/A UEL: N/A Extinguishing Media:

Use dry chemical, class D extinguisher, DO NOT USE WATER

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:

Product is flammable when wet and highly oxidizable in air. May spontaneously combust in air in finely divided form. Will immediately react with water, liberating flammable, explosive hydrogen gas

# SECTION V - REACTIVITY DATA

Stability: Stable

*Conditions to Avoid (stability):* moisture, dusting conditions, electric arcs, open flame, sparks *Incompatibility:* moisture, strong acids, strong oxidizing agents, acid chlorides, halogens

Hazardous Decomposition or Byproducts: Hydrogen Hazardous Polymerization: will not occur

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Conditions to avoid (hazardous polymerization): same as above

# SECTION VI - HEALTH HAZARD DATA

Health Hazards (Acute and Chronic): Inhalation: Low acute toxicity, may cause upper respiratory tract irritation Ingestion: Low oral toxicity Skin: Skin absorption not likely, however, may cause redness, itching, and swelling *Eve*: Will react with moisture to cause severe irritation Carcinogenicity: NTP? No IARC Monographs? No Medical Conditions Aggravated by Exposure: Pre-existing respiratory problems

#### Emergency and First Aid Procedures:

Inhalation: Remove victim to fresh air, keep warm and quiet, and give oxygen if breathing is difficult; seek medical attention

Ingestion: Give 1-2 glasses of milk or water seek medical attention. Never induce vomiting or give anything by mouth to an unconscious person

Remove contaminated clothing, brush material off skin, wash affected area with mild soap and water, and seek medical Skin: attention if symptoms persist

Eve: Flush eves with lukewarm water, lifting upper and lower evelids for at least 15 minutes and seek medical attention

# SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled:

Wear appropriate respiratory and protective equipment specified in section VIII. Isolate spill area, provide ventilation and extinguish sources of ignition. Place in a closed container for proper disposal. Take care not to raise dust. DO NOT USE WATER. USE NON-SPARKING TOOLS.

#### Waste disposal method:

Dispose of in accordance with state, local, and federal regulations. DO NOT FLUSH

#### Hazard Label Information:

Store in cool, dry area and in tightly sealed container. Wash thoroughly after handling. Store under mineral oil or under inert gas or vacuum.

# SECTION VIII - CONTROL MEASURES

Protective Equipment Summary (Hazard Label Information):

NIOSH approved respirator, impervious gloves, safety glasses, clothes to prevent contact.

Ventilation:

Local Exhaust: To maintain concentration at low exposure levels. Mechanical (General): Recommended.

### Work/Hygienic/Maintenance Practices:

Implement engineering and work practice controls to reduce and maintain concentration of exposure at low levels. Use good housekeeping and sanitation practices. Do not use tobacco or food in work area. Wash thoroughly before eating or smoking. Do not blow dust off clothing or skin with compressed air.

Notes: Pinholes may occur in thin foils as metal ages.

Please be advised that N/A can either mean Not Applicable or No Data Has Been Established



**OSHA Regulated?** No