

Material Safety Data Sheet

Identity: Samarium Fluoride

Formula: SmF₃

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 we assume no liability resulting from its use.

SECTION II - PRODUCT INFORMATION/HAZARDOUS INGREDIENTS

Samarium Fluoride

Concentration % 100

CAS # 13765-24-7

SECTION III - PHYSICAL/ CHEMICAL CHARACTERISTICS

Boiling Point: 2323°C

Specific Gravity (Water =1) N/A

Melting Point: 1306°C

Vapor Pressure: 0

Evaporation Rate: 0

Vapor Density: NA

Solubility in water: Insoluble

SECTION IV - FIRE AND EXPLOSION DATA

Flash Point: NA

Means of Extinction: Wear protective firefighting clothing and self-contained breathing apparatus. Do not use water. Use carbon dioxide, dry chemical extinguishing agents, dry sand, or dry ground dolomite.

SECTION V - REACTIVITY DATA

Stability: Stable

Conditions to Avoid - Instability: Heat, flame, and incompatible materials.

Incompatibility - Materials to avoid: None.

SECTION VI - HEALTH HAZARD DATA

Mode of entry: Inhalation: No Skin: No

Carcinogenicity: NTP: No IARC: No OSHA: No

Acute Exposure:

Eyes: May cause burning sensation, irritation, redness and watering.

Skin: May cause irritation, itching and dermatitis

Inhalation: May cause sneezing, coughing, difficulty breathing, nausea and irritation of the respiratory tract.

Emergency and First Aid Procedures:

In case of eye contact, flush eyes with lukewarm water for 15 minutes, seek medical attention. In case of skin contact, brush material off skin. Wash affected area with soap and water, and seek medical attention.

In case of inhalation, remove victim to fresh air, administer oxygen if breathing is difficult. Seek medical attention.

In case of ingestion, do induce vomiting. Give large quantities of water or milk if available. Contact a physician.

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-control measures. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for proper disposal.

Take care not to raise dust.

Waste Disposal Method: Dispose of in accordance with local, state and federal regulations.

Hazard Label Information:

Store in cool, dry area - Store in tightly sealed container. Wash thoroughly after handling

Precautions To Be Taken In Handling and Storing: None

SECTION VIII - CONTROL MEASURES

Protective Equipment Summary - Hazard Label Information NIOSH

approved respirator Impervious gloves Safety glasses

Clothes to prevent skin contact

Respiratory Protection (Specify Type):

Ventilation:

Local Exhaust: Local exhaust ventilation may be necessary to control any air contaminants to within their PEL or TLVs during the use of this product. **Special:** None

Mechanical (GEN): Good general ventilation is recommended.

Other Protective Clothing or Equipment: Protective gear suitable to prevent contamination

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 and smoking. Do not blow dust off clothing or skin with compressed air.