

Material Safety Data Sheet

Identity: Gadolinium fluoride

Formula: Gd₂F₃

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:

CAS #	OSHA PEL	ACGIH TLV	%	OTHER LIMITS
13765-26-9	N/A	N/A	100	N/A

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Physical States: Solid

Boiling Point: N/D
Melting Point: 2350 °C
Rate: 0
in water: insoluble

Specific Gravity (H₂O-1) 7.407 at 15C
Vapor Density: (Air=1): N/A Evaporation
Vapor Pressure (mmHg): N/A Solubility

Appearance and odor: White powder, no odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

Flash Points " Not applicable

Method Used:

Explosive Limits: LEL: UEL:

Extinguishing Media:

Use dry chemicals, dry sand, dry ground dolomite, class D extinguisher Fire Fighters must wear full face breathing apparatus and clothes to prevent skin contact. Fumes from fire are hazardous. DO NOT USE WATER.

Unusual Fire and Explosion Hazards:

SECTION V - REACTIVITY DATA

Stability:

Conditions to Avoid (stability) :

Incompatibility:

Hazardous Decomposition or Byproducts:

Hazardous Polymerization:

Conditions to avoid (hazardous polymerization):

SECTION VI - HEALTH HAZARD DATA

Routes of entry: Inhalation? Skin? Eyes? Ingestion? Other?

Health Hazards (Acute and Chronic):

Inhalation: May cause irritation

Ingestion: May cause irritation.

Skin: May cause irritation. Eye: May cause irritation

Emergency Procedures: Ingestion:

No Data available

Skin: Remove contaminated clothing, flood skin with large amounts of water.

Eye: Immediately flush eyes. No data.

Target Organ :

Carcinogenicity: NTP? IARC Monographs? OSHA Regulated?

Medical Conditions Aggravated by Exposure:

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: Do not induce vomiting, seek medical attention immediately.

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

Eye: Flush eyes with lukewarm water, lifting upper and lower eyelids for at least 15 minutes and seek medical attention immediately.

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, 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 state, local, and federal regulations.

Hazard Label Information:

Store in cool, dry area and in tightly sealed container. Wash thoroughly after handling. Use with adequate ventilation.

SECTION VIII - CONTROL MEASURES

Protective Equipment Summary (Hazard Label Information):

NIOSH approved respirator, impervious gloves, safety glasses, clothes to prevent contact, goggles or face shield.

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.

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