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Material Safety Data Sheet

Identity: Lithium Fluoride Pieces

Formula: LiF

SECTION I - GENERAL INFORMATION

Manufacturer: Advanced Engineering Materials Limited (AEM)

The information below is believed to be accurate and represents the best information available to AEM. However, AEM 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: 25.94

CAS #	OSHA PEL	ACGIH TLV	%
7789-24-4	2.5mg(F)/m ³	2.5mg(F)/m ³	0-100

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Physical States: Solid

Boiling Point: 1676°C
1047°C Melting Point: 845°C
Solubility in water: Slightly

Vapor Pressure (vs. air or mmHg): 1 mm at
Specific gravity (water=1): 2.64gm/cc at 20°C
Flash Point: N/A

Appearance and odor: White powder and pieces, no odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

Method Used: Non-flammable *Explosive Limits:* LEL: N/A UEL: N/A
Extinguishing Media: Use suitable extinguishing agent for surrounding material and type of fire

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: When heated to decomposition, may emit, toxic fumes of fluorine. Does not react with water at red hot heat

SECTION V - REACTIVITY DATA

Stability: Stable
Conditions to Avoid (stability): None
Incompatibility: Acids and acid fumes

Hazardous Decomposition or Byproducts: Fumes of fluorine
Hazardous Polymerization: Will not occur
Conditions to avoid (hazardous polymerization): None

SECTION VI - HEALTH HAZARD DATA

Routes of entry: Inhalation? Yes Skin? Yes Eyes? Yes Ingestion? Yes Other? No

Signs and Symptoms of Overexposure:

Inhalation: May cause tremors of hands, nausea, slurred speech lethargy, vertigo, thirst, increased volume of urine, anorexia, muscular weakness, changes in ECG, edema, hypothyroidism, memory impairment, seizures, kidney damage, shock, hypotension, mottle teeth, sclerosis of bones, calcification of ligaments, wasting, cachia and anemia

Ingestion: May cause nausea, vomiting, diarrhea, abdominal distress, stupor, weakness, tremors, convulsions, collapse, dyspnea, respiratory and cardiac failure

Skin: May cause redness, itching, inflammation and burning

Eye: May cause redness, itching, watering and burning

Health Hazards (Acute and Chronic):