



# International Advanced Materials

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## Material Data Safety Sheet

### Quick Identifier: Magnesium Fluoride

#### I. PRODUCT IDENTIFICATION

<b>Trade Name:</b>	Magnesium Fluoride	<b>Formula:</b>	MgF <sub>2</sub>
<b>Synonyms:</b>		<b>Molecular Weight:</b>	
<b>CAS #:</b>	7783-40-6		

#### II. HAZARDOUS INGREDIENTS

<b><u>Hazardous Components:</u></b>	<b><u>OSHA PEL:</u></b>	<b><u>ACGIH TLV:</u></b>	<b><u>Other Limits:</u></b>
Magnesium Flouride	2500 ug(f)/m <sup>3</sup> (TWA)	N/A	N/A
<b>Sec. 302 (EHS):</b>	No	<b>Sec. 304 RQ:</b>	No
<b>HMIS Ratings (0-4):</b>	N/A	<b>Flammability:</b>	N/A
<b>Health:</b>		<b>Sec. 313:</b>	No
<b>HMIS Protective Equipment:</b>		<b>Reactivity:</b>	N/A

#### III. PHYSICAL DATA

<b>Boiling Point:</b>	2260 C	<b>Melting Point:</b>	1248 C (2248 F)
<b>Specific Gravity (H<sub>2</sub>O=1):</b>	2.9 – 3.2	<b>Vapor Density (Air=1):</b>	N/A
<b>Vapor Pressure (mm Hg):</b>	Not determined	<b>Evaporation Rate:</b>	N/A
<b>% Volatiles by Volume:</b>	N/A	<b>Solubility in H<sub>2</sub>O:</b>	Very soluble in water.

**Appearance and Odor:** Colorless powder or crystals. No odor.

#### IV. FIRE AND EXPLOSION HAZARDS DATA

<b>Flash Point/Method:</b>	Not applicable
<b>Explosive Limits:</b>	<b>LEL:</b> N/A <b>UEL:</b> N/A
<b>Extinguishing Media:</b>	Non-flammable
<b>Special Fire Fighting Procedures:</b>	N/A
<b>Unusual Fire and Explosion Hazards:</b>	None

#### V. HEALTH HAZARD INFORMATION

<b>Routes of Entry:</b>	Inhalation, Skin and Eyes,				
<b>Target Organs:</b>	N/A				
<b>Carcinogenicity: NTP:</b>	No	<b>IARC Monographs:</b>	No	<b>OSHA Regulated:</b>	No
<b>LD50/LC50:</b> No toxicity data recorded.					

**Health Hazards (Acute and Chronic):****Inhalation:**

- Acute:** Inhalation of dust may cause coughing, burning sensation. Large oral dosages produce gastrointestinal disturbances, severe nausea, dehydration and thirst, diarrhea, vomiting and abdominal burning. Other symptoms of acute fluoride poisoning include muscle weakness, lethargy, and central nervous system depression.
- Chronic:** Chronic exposure may cause sclerosis of bones, mottling of teeth and other calcium deficiencies in the body.

**Ingestion:**

- Acute:** N/A
- Chronic:** N/A

**Skin:**

- Acute:** May result in moderate irritation
- Chronic:** N/A

**Eye:**

- Acute:** May cause irritation of eyes and eyelids.
- Chronic:** N/A

**Signs and Symptoms of Exposures:**

- Inhalation:** N/a
- Ingestion:** N/a
- Skin:** N/a
- Eye:** N/a

**Medical Conditions Generally** Persons suffering from asthma.

**Aggravated by Exposure:**

**EMERGENCY AND FIRST AID PROCEDURES:**

- INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.
- INGESTION:** If swallowed, induce vomiting immediately. Call a physician immediately. Never give anything by mouth to an unconscious person.
- SKIN:** Wash exposed area with soap and water. Get medical advice if irritation develops.
- EYE:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician if irritation develops.

**VI. REACTIVITY DATA**

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- Stability:** Stable
- Incompatibility (Material to avoid):** None
- Hazardous Decomposition Products:** May form fluorine fumes when heated to decomposition.
- Hazardous Polymerization:** This substance does not polymerize.
- Conditions to Avoid:** Stable under ordinary conditions of use and storage.

**VII. SPILL OR LEAK PROCEDURES**

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- Steps to Be Taken in Case Material Is Released or Spilled:** Sweep, scoop or pick up spilled material. Collected waste may be transferred to a closed, preferable metal, container and sent to a RCRA approved waste disposal facility.
- Waste Disposal Method:** Ensure compliance with local, state and federal.
- Other Precautions:** MAY BE HARMFUL IF SWALLOWED OR INHALED! Do not breathe dust. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.
- Precautions to Be Taken in Handling and Storing:** Keep in a tightly close container, stored in a cool, dry ventilated area. Protect against physical damage.

**VIII. SPECIAL PROTECTION INFORMATION**

<b>Respiratory Protection:</b>	If TLV is exceeded, a dust/mist respirator with chemical goggles may be worn.
<b>Ventilation: Local Exhaust:</b>	Preferred
<b>Mechanical (General):</b>	N/A
<b>Protective Gloves:</b>	Suggested
<b>Eye Protection:</b>	Chemical safety goggles. Do not wear contact lens when working with this material.
<b>Other Protective Clothing or Equipment:</b>	Lab coat, apron or coveralls.
<b>Work/Hygienic/Maintenance Practices:</b>	Normal hygienic practices. Wash thoroughly after handling.

#### **IX. ADDITIONAL COMMENTS**

Some of the chemicals listed herein are research or experimental substances which may be toxic, as defined by various governmental regulations. In accordance with Environmental Protection Agency regulations and the Toxic Substance Control Act (TSCA), these materials should only be handled by, or under the direct supervision of a "technically qualified individual", as defined in 40 CFR 710.2(aa).

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