

## Material Safety Data Sheet

**Triveni Chemicals**  
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### Magnesium fluoride

#### Section 1 - Chemical Product and Company Identification

MSDS Name: Magnesium fluoride  
Synonyms: Magnesium flux; Magnesium difluoride.

#### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
7783-40-6	Magnesium fluoride	>98	231-995-1

#### Section 3 - Hazards Identification

##### EMERGENCY OVERVIEW

**Appearance:** white powder.  
**Warning!:** Causes eye, skin, and respiratory tract irritation.  
**Target Organs:** Respiratory system, eyes, skin.

##### Potential Health Effects

**Eye:** Causes eye irritation.  
**Skin:** Causes skin irritation.  
**Ingestion:** May cause irritation of the digestive tract. Exposure to fluoride compounds can result in systemic toxic effects on the heart, liver, and kidneys. It may also deplete calcium levels in the body leading to hypocalcemia and death. The oral human LDLo for the fluoride ion (CAS= 16984-48-8) is 50 mg/kg. Acute fluoride intoxication produces nausea, vomiting, abdominal pain, diarrhea and tetany, often resulting in death from cardiovascular collapse.  
**Inhalation:** Causes respiratory tract irritation.  
**Chronic:** Chronic inhalation and ingestion may cause chronic fluoride poisoning (fluorosis) characterized by weight loss, weakness, anemia, brittle bones, and stiff joints. Overexposure to fluoride dust over prolonged periods can result in fluoride deposition in bones and cartilage as evidenced by X-ray changes (fluorosis) which may be accompanied by stiffness of joints. (Alcoa)

#### Section 4 - First Aid Measures

**Eyes:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid.

**Skin:** In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.

**Ingestion:** If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:** Treat symptomatically and supportively.

## **Section 5 - Fire Fighting Measures**

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Non-combustible, substance itself does not burn but may decompose upon heating to produce irritating, corrosive and/or toxic fumes.

**Extinguishing Media:** Use extinguishing media most appropriate for the surrounding fire.

**Flash Point:** Not available.

**Autoignition Temperature:** Not available.

**Explosion Limits, Lower:** Not available.

**Upper:** Not available.

**NFPA Rating:** (estimated) Health: 2; Flammability: 0; Instability: 0

## **Section 6 - Accidental Release Measures**

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

## **Section 7 - Handling and Storage**

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid breathing dust.

**Storage:** Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances.

## **Section 8 - Exposure Controls, Personal Protection**

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

**Exposure Limits** Chemical Name ACGIH NIOSH OSHA - Final PELs

Magnesium fluoride 2.5 mg/m<sup>3</sup> TWA (as F) (listed under Fluorides). 2.5 mg/m<sup>3</sup> TWA (inorganic solids, as F) (listed under Fluorides, inorganic). 2.5 mg/m<sup>3</sup> TWA (as F) (listed under Fluorides).2.5 mg/m<sup>3</sup> TWA (as F) (listed under Fluorides).

**OSHA Vacated PELs:** Magnesium fluoride: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## Section 9 - Physical and Chemical Properties / Specification

<b>Physical Appearance:</b>	White Powder
<b>Assay.</b>	98.00%
<b>pH:</b>	Not available.
<b>Boiling Point:</b>	2260 deg C @ 760 mm Hg
<b>Freezing/Melting Point:</b>	1248 deg C
<b>Molecular Formula:</b>	MgF <sub>2</sub>
<b>Molecular Weight:</b>	62.31

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** Dust generation.

**Incompatibilities with Other Materials:** No significant incompatibilities identified with common materials and contaminants..

**Hazardous Decomposition Products:** Fluoride fumes.

**Hazardous Polymerization:** Has not been reported.

## Section 11 - Toxicological Information

RTECS#: CAS# 7783-40-6: OM3325000

LD50/LC50: CAS# 7783-40-6: Oral, rat: LD50 = 2330 mg/kg;

Carcinogenicity: CAS# 7783-40-6: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:** No data available.  
**Teratogenicity:** No data available.  
**Reproductive Effects:** No data available.  
**Mutagenicity:** No data available.  
**Neurotoxicity:** No data available.

## **Section 12 - Ecological Information**

No information available.

## **Section 13 - Disposal Considerations**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed.  
**RCRA U-Series:** None listed.

## **Section 14 - Transport Information**

US DOT                      Canada TDG  
Shipping Name:            Not Regulated Not Regulated  
Hazard Class:  
UN Number:  
Packing Group:

## **Section 15 - Regulatory Information**

US FEDERAL.

TSCA: CAS# 7783-40-6 is listed on the TSCA inventory.

Health & Safety Reporting List: None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules: None of the chemicals in this product are under a Chemical Test Rule.

### **Section 12 B**

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

**Section 313** No chemicals are reportable under Section 313.

**Clean Air Act:**

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

**Clean Water Act:**

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

**OSHA:**

None of the chemicals in this product are considered highly hazardous by OSHA.

**STATE**

CAS# 7783-40-6 can be found on the following state right to know lists: California, (listed as Fluorides), California, (listed as Fluorides, inorganic), Pennsylvania, (listed as Fluorides), Minnesota, (listed as Fluorides), Minnesota, (listed as Fluorides, inorganic).

**California Prop 65**

California No Significant Risk Level: None of the chemicals in this product are listed.

**European/International Regulations**

European Labeling in Accordance with EC Directives

Hazard Symbols:

**XI**

**Risk Phrases:**

R 36/37/38 Irritating to eyes, respiratory system and skin.

**Safety Phrases:**

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 37/39 Wear suitable gloves and eye/face protection.

**WGK (Water Danger/Protection)**

CAS# 7783-40-6: 1

**Canada - DSL/NDSL**

CAS# 7783-40-6 is listed on Canada's DSL List.

**Canada - WHMIS**

This product has a WHMIS classification of D2B.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List.