



# MADRAS FLUORINE PRIVATE LTD

## Material Safety Data Sheet Magnesium Fluoride

### SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Magnesium Fluoride  
**Product Codes** 438 001  
**CAS#** 7783-40-6  
**RTECS** OM3325000  
**TSCA** TSCA 8(b) inventory: Magnesium fluoride  
**Synonym:** Magnesium fluoride powder, magnesium difluoride powder, MgF<sub>2</sub> powder, sellaite, aflun, irtran1, magnesium fluorure, magnesiumfluoride2, magnesiumfluoride3, CAS #7783-40-6,

**Chemical Name** Not available.  
**Chemical Formula** MgF<sub>2</sub>

**Contact Information** **Madras Fluorine Private Ltd**  
New No.71, 4<sup>th</sup> Main Road  
Gandhi Nagar, Adyar  
Chennai 600 020, India  
Fax : 00-91-44-24420654  
E-mail : [exim@mfpflfluorine.com](mailto:exim@mfpflfluorine.com)

**Emergency Telephone No:** +91 44 2442 6830 [OFFICE] +91 44 3290 0358 [FACTORY]  
MON – FRI : 9.30 AM – 6.00 PM SAT – SUN : 9.30 AM – 6.00 PM

### SECTION 2 : COMPOSITION / INFORMATION ON INGREDIENTS

| Composition:<br>Name | CAS #     | % by Weight |
|----------------------|-----------|-------------|
| Magnesium fluoride   | 7783-40-6 | 100         |

**Toxicological Data on Ingredients:** Magnesium fluoride LD50: Not available. LC50: Not available.

### SECTION 3 : HAZARDS IDENTIFICATION

#### Potential Acute Health Effects:

Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator). Corrosive to eyes and skin. The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Inhalation of dust will produce irritation to gastro-intestinal or respiratory tract, characterized by burning, sneezing and coughing. Severe over-exposure can produce lung damage, choking, unconsciousness or death.



Office : No.71, 4th Main Road, GandhiNagar, Adyar, Chennai - 600 020 INDIA

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Email : [exim@mfpflfluorine.com](mailto:exim@mfpflfluorine.com) ; [sales@mfpflfluorine.com](mailto:sales@mfpflfluorine.com)



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**Potential Chronic Health Effects:**

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

Repeated exposure of the eyes to a low level of dust can produce eye irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated inhalation of dust can produce varying degree of respiratory irritation or lung damage.

**SECTION 4 : FIRST AID MEASURES****Eye Contact:**

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

**Skin Contact:**

If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical got on the victim's exposed skin, such as the hands : Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.

**Serious Skin Contact:**

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

**Inhalation:**

Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

**Serious Inhalation:**

Not available.

**Ingestion:**

Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

**Serious Ingestion:** Not available.



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## SECTION 5 : FIRE –FIGHTINGS MEASURES

**Flammability of the Product:** Non-flammable.

**Auto-Ignition Temperature:** Not applicable.

**Flash Points:** Not applicable.

**Flammable Limits:** Not applicable.

**Products of Combustion:** Not available.

**Fire Hazards in Presence of Various Substances:** Not applicable.

**Explosion Hazards in Presence of Various Substances:**

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

**Fire Fighting Media and Instructions:** Not applicable.

**Special Remarks on Fire Hazards:** Not available.

**Special Remarks on Explosion Hazards:** Not available.

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

**Small Spill:**

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

**Large Spill:**

Corrosive solid.

Stop leak if without risk. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

## SECTION 7 : HANDLING AND STORAGE

**Precautions:**

Keep container dry. Do not breathe dust. Never add water to this product. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes.

**Storage:** Corrosive materials should be stored in a separate safety storage cabinet or room.



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## SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

### Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### Personal Protection:

Splash goggles. Lab coat. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

### Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Vapor and dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

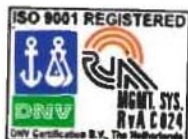
### Exposure Limits:

TWA: 2.5 (mg/m<sup>3</sup>)

Consult local authorities for acceptable exposure limits.

## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

|                               |                                      |
|-------------------------------|--------------------------------------|
| Physical state and appearance | Solid.                               |
| Odor                          | Not available.                       |
| Taste                         | Not available.                       |
| Molecular Weight              | 62.32 g/mole                         |
| Color                         | Not available.                       |
| pH (1% soln/water)            | Not available.                       |
| Boiling Point                 | 2260°C                               |
| Melting Point                 | 1248°C                               |
| Critical Temperature          | Not available.                       |
| Specific Gravity              | 3.148 (Water = 1)                    |
| Vapor Pressure                | Not applicable.                      |
| Vapor Density                 | Not available.                       |
| Volatility                    | Not available.                       |
| Odor Threshold                | Not available.                       |
| Water/Oil Dist. Coeff.        | Not available.                       |
| Ionicity (in Water)           | Not available.                       |
| Dispersion Properties         | Not available.                       |
| Solubility                    | Very slightly soluble in cold water. |



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## SECTION 10 : STABILITY AND REACTIVITY

**Stability:** The product is stable.

**Instability Temperature:** Not available.

**Conditions of Instability:** Not available.

**Incompatibility with various substances:** Not available.

**Corrosivity:** Non-corrosive in presence of glass.

**Special Remarks on Reactivity:** Not available.

**Special Remarks on Corrosivity:** Not available.

**Polymerization:** No.

## SECTION 11 : TOXICOLOGICAL INFORMATION

**Routes of Entry:** Eye contact. Inhalation. Ingestion.

**Toxicity to Animals:**

LD50: Not available.

LC50: Not available.

**Chronic Effects on Humans:** Not available.

**Other Toxic Effects on Humans:**

Very hazardous in case of ingestion.

Hazardous in case of skin contact (irritant), of inhalation.

Slightly hazardous in case of skin contact (permeator).

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:** Not available.

**Special Remarks on other Toxic Effects on Humans:** Not available.



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## SECTION 12 : ECOLOGICAL INFORMATION

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Products of Biodegradation:**

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The products of degradation are more toxic.

**Special Remarks on the Products of Biodegradation:** Not available.

## SECTION 13 : DISPOSAL CONSIDERATIONS

**Waste Disposal:**

## SECTION 14 : TRANSPORT INFORMATION

**DOT Classification:** Not a DOT controlled material (United States).

**Identification:** Not applicable.

**Special Provisions for Transport:** Not applicable.

## SECTION 15 : REGULATORY INFORMATION

**Federal and State Regulations:** TSCA 8(b) inventory: Magnesium fluoride

**Other Regulations:** Not available..

**Other Classifications:**

**WHMIS (Canada):** CLASS E: Corrosive solid.

**DSCL (EEC):** R36/38- Irritating to eyes and skin.

**HMIS (U.S.A.):**



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**Health Hazard:** 3

**Fire Hazard:** 0

**Reactivity:** 0

**National Fire Protection Association (U.S.A.):**

**Health:** 3

**Flammability:** 0

**Reactivity:** 0

**Specific hazard:**

**Protective Equipment:**

Gloves. Lab coat. Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Splash goggles.

## SECTION 16 : OTHER INFORMATION

**References:** Not available.

**Other Special Considerations:** Not available.

**Creation Date :** 18.9.2000

**Revision Date :** 25.7.2006

**Disclaimer:**

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