

## LTS Research Laboratories, Inc. Safety Data Sheet Magnesium Fluoride

#### 1. Product and Company Information

Trade Name: Magnesium fluoride

Chemical Formula: MgF<sub>2</sub>

Recommended Use: Scientific research & development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 37 Ramland Road
City: Orangeburg
State: New York
Zip Code: 10962
Country: USA

Tel #: 855-587-2436 / 855-lts-chem

Emergency Contact 800-424-9300 (US & Canada) (ChemTrec) Tel #: +1-703-527-3887 (International)

#### 2. Hazards Identification

Signal Word: Warning



Hazard Statements: H315: Causes skin irritation

H319: Causes serious eye irritation H335: May cause respiratory irritation

Precautionary Statements: P261: Avoid breathing dust/fume/gas/mist/vapors/spray

P264: Wash face, hands, and any exposed skin thoroughly after

handling

P271: Use only outdoors or in a well-ventilated area

P280: Wear protective gloves/protective clothing/eye protection/face

protection

P362: Take off contaminated clothing and wash before reuse

P302+P350: IF ON SKIN: Gently wash with plenty of soap and water P304+P340+P312: IF INHALED: Remove victim to fresh air and keep

at rest in a position comfortable for breathing. Call a POISON

CENTER/ doctor if you feel unwell

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do -

continue rinsing

P332+P313: If skin irritation occurs: Get medical advice/attention P337+P313: If eye irritation persists get medical advice/attention P403+P233: Store in a well-ventilated place. Keep container tightly

closed

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 1 Flammability: 0 Reactivity: 1

# 3. Composition

Chemical Family: Fluoride salt

Additional Names: Magnesium difluoride

 $\begin{array}{c} \text{Magnesium fluoride (MgF_2):} \\ \text{Percentage:} \\ \text{CAS \#:} \end{array}$ 100 wt% 7783-40-6 EC #: 231-995-1



4. First Aid Procedures General Treatment: Seek medical attention if symptoms persist. **Special Treatment:** None Important Symptoms: None Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult. Give one to two glasses of water and induce vomiting. Never induce Ingestion: vomiting or give anything by mouth to an unconscious person. Skin: Wash affected area with mild soap and water. Remove any contaminated clothing. Flush eyes with water, blinking often for ten minutes. Eyes: 5. Fire and Explosion Hazards Data Flammability: Non-flammable Flash Point: N/A Autoignition Temperature: N/A Extinguishing Media: Use suitable extinguishing agent for surrounding material and type of Spec. Fire Fighting Procedure: Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. 6. Accidental Release Measures If Material Is Released/ Spilled: Wear appropriate respiratory and protective equipment specified in special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust. Isolate runoff to prevent environmental pollution. Environmental precautions: 7. Handling and Storage Handling Conditions: Wash thoroughly after handling. **Storage Conditions:** Store in a cool dry place in a tightly sealed container. Work/Hygienic Maintenance: Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with compressed air. Ventilation: Provide sufficient ventilation to maintain concentration at or below

TLV.

### 8. Exposure Controls / Personal Protection

Permissible Exposure Limits: 2.5 mg/m³ as F, long term value Threshold Limit Value: 2.5 mg/m³ as F, long term value

Special Equipment: None

Respiratory Protection: Dust respirator, NIOSH approved

Protective Gloves: Rubber gloves

Eye Protection: Safety glasses/goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

### 9. Physical and Chemical Characteristics

Color White to off-white

Form: Powder, granules, pellets, sputtering target, custom pieces

Odor: Odorless

Water Solubility: Low (0.076 g/l)

Boiling Point: N/A
Melting Point: 1261 °C
Density: 3.148 g/cc
Molecular Weight: 62.3 g/mol

## 10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Oxidizing agents

Incompatible Conditions:

None Research

Haz. Decomposition Products: Hydrogen fluoride, Metal oxide fume

# 11. Toxicological Information

Potential Health Effects:

Eyes: Causes irritation
Skin: Causes serious irritation
Ingestion: Low toxicity by ingestion

Inhalation: May cause irritation to the respiratory tract

Chronic: N/A

Routes of Entry:

Target Organs:

N/A
Signs and Symptoms of Exposure:

N/A

**Medical Conditions** 

Aggravated by Exposure: N/A

Median Lethal Dose: 2000 mg/kg for rat by mouth

Carcinogen: N/A

	12. Ecological Information
Ecological data is not available.	
	13. Disposal Considerations
Dispose of in accordance with local, s	state and federal regulations.
	14. Transportation Data
Hazardous:	Not hazardous for transportation
Hazard Class:	N/A
Packing Group:	N/A
UN Number:	N/A
Proper Shipping Name:	N/A
	15. Regulatory Information
Sec 302 Extremely Hazardous:	No
Sec 304 Reportable Quantities:	N/A
Sec 313 Toxic Chemicals:	No
	16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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