



<a href="#">Magnesium Hexafluorosilicate</a>		<a href="#">Pricing &gt;</a>
<b>Linear Formula</b>	MgSiF <sub>6</sub>	
<b>Pubchem CID</b>	61861	
<b>MDL Number</b>	MFCD00016196	
<b>EC No.</b>	241-022-2	
<b>IUPAC Name</b>	magnesium; hexafluorosilicon(2-)	
<b>Beilstein/Reaxys No.</b>	N/A	
<b>SMILES</b>	F[Si-2](F)(F)(F)(F)F.[Mg+2]	
<b>InChI Identifier</b>	InChI=1S/F6Si.Mg/c1-7(2,3,4,5)6;/q-2;+2	
<b>InChI Key</b>	INWUJAAIUAAHJA-UHFFFAOYSA-N	
<b>Signal Word</b>	Danger	
<b>Hazard Statements</b>	H301-H312-H315-H319-H330-H335	
<b>Hazard Codes</b>	N/A	
<b>Risk Codes</b>	N/A	
<b>Safety Statements</b>	N/A	
<b>Transport Information</b>	UN2853 6.1/PG III	
<b>GHS Pictograms</b>	<p><a href="#">GHS07 Exclamation Point</a></p>  <p><a href="#">GHS06 Skull and Crossbones</a></p> 	

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## SAFETY DATA SHEET

Date Accessed: 10/26/2021

Date Revised: 05/15/2015

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## SECTION 1. IDENTIFICATION

**Product Identifiers:** All applicable American Elements product codes for CAS #16949-65-8

**Relevant identified uses of the substance:**  
Scientific research and development

Supplier details:  
American Elements  
10884 Weyburn Ave.  
Los Angeles, CA 90024  
Tel: +1 310-208-0551  
Fax: +1 310-208-0351

Emergency telephone number:  
Domestic, North America +1 800-424-9300  
International +1 703-527-3887

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## SECTION 2. HAZARDS IDENTIFICATION

Statement of Hazard: Contact with acids liberates very toxic gas, Irritant, Respiratory irritant, Toxic

Acute Health Hazard: Irritant to eyes, skin, mucous membranes and respiratory system.

May be toxic by ingestion, harmful by skin absorption, and fatal by inhalation.

Chronic Health Hazard: Not Available

HMIS Rating: H: 3 F: 0 P: 0

NFPA Rating: H: 3 F: 0 P: 0

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

Pictogram:



Signal Word: Danger

Hazard Statement(s): H301 Toxic if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H335 May cause respiratory irritation.

Precautionary Statement(s): P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P284 Wear respiratory protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P302+P352 IF ON SKIN: wash with plenty of soap and water.  
P304+P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.  
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.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P406 Store in corrosive resistant/ [ ] container with a resistant inner liner.  
P420 Store away from other materials.  
Supplemental Statement(s): EUH032 Contact with acids liberates very toxic gas

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### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name: Magnesium silicofluoride 98%  
CAS Number:  
MDL Number:  
EINECS Number:  
Beilstein Registry Number:  
Molecular Formula:  
Molecular Weight:  
Content: As specified in product name.  
16949-65-8  
MFCD00016196  
241-022-2  
Not Available  
MgSiF6 . 6H2O  
274.41

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### **SECTION 4. FIRST AID MEASURES**

Eye Contact: Flush eyes with large amounts of water

for fifteen minutes. Separate eyelids with fingers. If irritation persists, seek medical attention.

Skin Contact: Wash skin with soap and water. If irritation persists, seek medical attention.

Ingestion: Do not induce vomiting. Seek medical attention.

Inhalation: Move to a fresh air environment. Contact a physician if breathing becomes difficult.

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## **SECTION 5. FIREFIGHTING MEASURES**

Flash Point (°C):

Explosion Limits:

Not Available

Not Available

Auto Ignition

Temperature (°C):

Not Available

Carbon dioxide, dry chemical powder, alcohol-resistant foam, or water spray

Extinguishing Media:

Protective Equipment:

Specific Hazards:

Wear self-contained respirator and fully protective impervious suit.

May emit hazardous fumes under fire conditions.

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## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal Protection: Wear a self-contained breathing apparatus, rubber boots and gloves, and disposable coveralls. Dispose of coveralls after use. Remove from ignition sources if safe to do so. Follow emergency response plan and contact proper authorities if needed.

Keep unprotected persons away.

Environmental Protection: Keep spills out of sewers and bodies of water. Dike and contain the spill with inert material. Absorb on sand, vermiculite or diatomite.

Transfer material to a container for disposal or recovery. Ventilate area and wash spill site after material pickup is complete.

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## **SECTION 7. HANDLING AND STORAGE**

Handling and Storage: Avoid breathing dust, vapor, mist or gas. Avoid contact with skin and eyes. Avoid prolonged or repeated exposure. Use only in a chemical fume hood. Open and handle container with care. Keep ignition sources away.

Store in a tightly closed container in a dry, well-ventilated place.

Sensitivities: Not Available

Storage Temperature (°C):

15 to 30

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## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Engineering Controls: Use product in a well ventilated area or under a fume hood. Use proper lab equipment while handling this product. Keep away from incompatible materials for possible risk of hazardous reaction.

Eye Protection: Wear appropriate protective eyeglass or chemical safety goggles. Make sure that there is an eyewash station in your vicinity.

Skin Protection: Wear impervious gloves and protective clothing.

Respiratory Protection: Use a NIOSH approved respirator when exposure limits are exceeded or if irritation or other symptoms are experienced.

Exposure Limits: Country Source Type Value

USA

USA

USA

ACGIH

OSHA

OSHA

TWA

STEL

PEL

3 mg/m<sup>3</sup>

Not Available

3 mg/m<sup>3</sup>

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## **SECTION 9. PHYSICAL AND CHEMICAL**

## PROPERTIES

Appearance: White crystalline powder  
Odor: Not Available  
Odor Threshold: Not Available  
Flash Point (°C): Not Available  
Autoignition (°C): Not Available  
UEL % by Volume:  
LEL % by Volume:  
Melting Point (°C): 120  
Boiling Point (°C): 212  
Evaporation Rate: Not Available  
pH Value: Not Available  
  
Density (g/cm<sup>3</sup>): 1.788  
Refractive Index (n<sup>20</sup>D): Not Available  
Viscosity: Not Available  
Solubility in Water: Soluble  
Solubility in Other: Not Available  
Vapor Pressure (mmHg): Not Available  
Vapor Density (Air=1): Not Available

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## SECTION 10. STABILITY AND REACTIVITY

Stability: Stable under normal temperatures and pressures.  
Incompatibility: Strong oxidizing agents, Acids, Strong reducing agents  
Reactivity: Product may react with incompatible materials to release other hazardous substances.  
Conditions to Avoid: Heat, flame, sparks, other ignition sources.  
Hazardous Decomposition Products:  
Hydrogen fluoride gas, Magnesium oxides, Silicon oxides

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## SECTION 11. TOXICOLOGICAL INFORMATION

RTECS Reference:  
Target Organs: Not Available  
Not Available  
Toxicity Data: Not Available  
National Toxicology Program (NTP) listed:  
Not Available  
Carcinogenicity:  
International Agency for Research on Cancer (IARC) listed:  
Not Available  
Potential Symptoms: Not Available

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## **SECTION 12. ECOLOGICAL INFORMATION**

Toxicity: Not Available

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## **SECTION 13. DISPOSAL CONSIDERATIONS**

Contact a licensed professional waste disposal service. Dispose in a manner consistent with federal, state and local environmental regulations.

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## **SECTION 14. TRANSPORT INFORMATION**

DOT Shipping Name: Magnesium Fluorosilicate  
DOT UN Number: UN2853  
DOT Hazard Class: Class 6.1  
DOT Packing Group: PGIII  
IMDG: Magnesium Fluorosilicate  
IMDG UN Number: UN2853  
IMDG Hazard Class: Class 6.1  
IMDG Packing Group: PGIII  
Marine Pollutant: No  
IATA: Magnesium Fluorosilicate  
IATA UN Number: UN2853  
IATA Hazard Class: Class 6.1  
IATA Packing Group: PGIII

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## **SECTION 15. REGULATORY INFORMATION**

United States  
Superfund Amendments and Reauthorization Act  
(SARA 313) listed: No  
European Union  
European Inventory of Existing Chemical Substances  
(EINECS): 241-022-2  
Canada  
Canadian Non-Domestic Substances List (NDSL)  
listed: No  
Toxic Substance Control Act (TSCA) listed: Yes  
Superfund Amendments and Reauthorization Act  
(SARA 302) listed: No  
Superfund Amendments and Reauthorization Act  
(SARA 311/312) listed: No  
Canadian Domestic Substances List (DSL) listed: Yes

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## 16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2016 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.

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