

Material Safety Data Sheet

Resist Wool Preservative

SECTION 1: Product Identification

Product name: Resist Wool Preservative
Chemical family: Inorganic Fluoride
Common or trade name: Wool Preservative
Formula: $MgSiF_6 \cdot 6H_2O$
NIOSH Registry Number: VV8575000
Description: White crystalline powder

SECTION 2: Hazardous Rating (NFPA 704 criteria)

Hazard Rating Scale:

		4 = Severe
Health	3	3 = Serious
Fire:	0	2 = Moderate
Reactivity:	0	1 = Slight
Special:	0	0 = Minimal

Harmful if swallowed. Contact with water liberates toxic gas.

SECTION 3: Hazardous Ingredients TLV(TWA) TLV(STEL) Basis

Magnesium Fluorosilicate (18972-56-0)	2.5mg/m ³	2.5mg/m ³	ACGIH
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SECTION 4: Fire and Explosion Data

Flammable Hazards: N/A
Flash point: N/A
Flammable limits: N/A
Extinguishing media: This chemical is not flammable, do not apply water as fumes of fluorine gas maybe liberated. Use CO₂, foam or dry chemical.
Autoignition Temperature: N/A
Firefighting: Wear self contained breathing apparatus and full protective clothing to prevent contact with skin and eyes. Emits toxic fumes under fire conditions.

SECTION 5: Health Hazard Data

Effects of overexposure:

- A. Eye Contact: May cause severe eye injury, including blindness.
 - B. Ingestion: Harmful if swallowed and possibly fatal depending on dosage.
 - C. Inhalation: May experience severe respiratory irritation and burns.
 - D. Skin contact: May cause severe skin injury.
- Carcinogenicity: No chemicals listed as carcinogens or potential carcinogens.

SECTION 6: Emergency First Aid Procedures

- A. Eye Contact: Flush with water for at least 15 minutes. Seek immediate medical attention.
- B. Ingestion: Drink large quantities of water. Do not induce vomiting. Seek immediate medical attention.
- C. Inhalation: Remove to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, administer artificial resuscitation. Seek immediate medical attention.
- D. Skin contact: Flush with water. Wash with soap and water. Remove contaminated clothing. Call a physician if irritation develops.

MATERIAL SAFETY DATA SHEET

Resist Wool Preservative

(Page Two)

Notes to Physician: Fluoride ion can cause fluorosis (brittle bones calcified ligaments and anemia) Administer chewable calcium carbonate tablets, milk of magnesia or milk. An injection or topical application on the damaged skin of either calcium gluconate or calcium lactate may be advised by the poison control center. Exposed person should be observed for 48-72 hours for delayed onset of pulmonary edema.

SECTION 7: Handling Procedures

A. Protective equipment:

- Eyes: Where eye contact is possible, wear chemical splash goggles and/or a face shield.
- Skin: Wear rubber or other impervious gloves, protective clothing (coveralls, boots, etc) should be worn to prevent contact with skin. Protect open wounds.
- Inhalation: Good ventilation is required. A NIOSH approved respirator should be worn. Self-contained breathing apparatus maybe required when chemical is heated over 212°F (100°C).

B. Storage:

Keep away from food and drink. Keep out of reach of children. Store in a cool dry area. Do not heat above 212°F (100°C) as hydrogen fluoride gas maybe released. Avoid mixing with water as hydrofluoric acid will form. Do not store near acids. Use good personal hygiene practices. Wash contaminated clothing and equipment before reuse.

C. Ventilation requirements: Provide ventilation (cross breeze, fans, airmovers, exhaust ducting etc.)

SECTION 8: Spill or Leakage Control Procedures

Keep Unnecessary people away. Before attempting clean-up, refer to Health Hazard Data. Wear all personal protective equipment during clean up. Ventilate area. Contain spilled material. Collect dry material in suitable container. Dispose of container in accordance with federal, state, and local regulations.

SECTION 9: Physical Data

The following data is approximate or typical values and should not be used for precise purposes or product specification.

- Density: 82.4lbs/FT³
- Solubility in water by wt: 59g/100 ML water
- Appearance and Odor: White crystalline powder: pungent odor
- pH: 3.1
- Specific gravity (H₂O =1): 1.788@20°C

MATERIAL SAFETY DATA SHEET

Resist Wool Preservative

(Page Three)

SECTION 10: Reactivity Data

Stability: Stable
Hazardous polymerization: Will not occur
Conditions to avoid: Do not allow water to enter container. Mixing with water will produce hydrofluoric acid. Heat in excess of 212°F (100°C) may release hydrogen fluoride gas.
Incompatibility: Acids
Hazardous decomposition products: Toxic Hydrogen Fluoride gas

Inventories: All components of this product are listed on the EPA's TSCA inventory.

SECTION 11: Toxicological Information

LD 50: 200mg/kg (oral-rat)
Long term exposure will target kidneys and cause bone disorders.

SECTION 12: Ecological Information

Biodegradability: Biodegradable
Mobility: Water Soluble

This product is unlikely to accumulate in the environment. Toxic to some fish and other organisms.

SECTION 13: Disposal Information

Dispose in accord with local, state and federal regulations. Do not mix with other materials. Most regulatory agencies allow triple rinsing of used container with water while wearing proper PPE.

SECTION 14: Transportation Information

Identification: UN2853
Proper Shipping Name: Magnesium Fluorosilicate
Dot-Hazard Class: 6.1 (Poison)
Packing Group: 111
EPA Hazardous Substance: No
Reportable Quantity: N/A

US Domestic Ground Transport: Consumer commodity ORM-D (49 CFR 173.153)
Air Transport: Consumer commodity ORM-D (49 CFR 173.27)
Sea Transport: Consumer commodity ORM-D (49 CFR 173.153)

SECTION 15: Regulatory Information

Listed in the following

International Agency of Research on Cancer Monographs (IARC)	NO
National Toxicology Program's Annual Report on Carcinogens (NTP)	NO
OSHA Subpart Z	NO
Massachusetts "Right to Know" laws	NO
New Jersey "Right to Know" laws	YES
Toxic Substances Control Act Inventory of Toxic Substances (TSCA)	YES

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MATERIAL SAFETY DATA SHEET

Resist Wool Preservative

(Page Four)

Superfund Amendments and Reauthorization Act (SARA)	NO
Comprehensive Env. Response, Compensation & Liability Act (CERCLA)	NO
California's Proposition 65 for carcinogens and toxicants	NO
Resource Conservation and Recovery Act (RCRA)	NO
Workplace Hazardous Materials Information System (WHMIS)	NO

	ILO	T (Toxic)
WHMIS		Toxic
Risk Phrases:		R21 - Harmful in contact with skin R23/25 - Toxic by inhalation and if swallowed R33 - Danger of cumulative effects R35 - Causes severe burns R40 - Possible risks of irreversible effects R41 - Risk of serious damage to eyes R48 - Danger of serious damage to health by prolonged exposure
Safety phrases:		S2 - Keep out of reach of children S13 - Keep away from food, drink and animal feeding stuff S23 - Do not breathe fumes S24/25 - Avoid contact with skin and eyes S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice S27 - Take off immediately all contaminated clothing S36/37/38/39 - Wear suitable protective clothing, gloves and eye/face protection S38 - In case of insufficient ventilation, wear suitable respiratory equipment S51 - Use only in well-ventilated areas S56 - Dispose of this material and its container at hazardous or special waste collection point S62 - If swallowed do not induce vomiting; seek medical advice immediately and show this container or label.

SECTION 16: Other Information

Restrictions on use. Ready to use after label dilution. This product is intended for professional use only.

Magnesium fluorosilicate is listed in the following inventories: USA (TSCA); China (CI); Korea (ECL); Canada (DSL); Philippines (PICCS); Europe (EINECS); Japan (MITI) and Australia (AICS).

The information in this Material Safety Data Sheet is drawn from recognized sources believed to be reliable but is provided without warranty.

The user must determine safe condition and assume liability for and loss, injury, damage, or expense resulting from use of this product.

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