

Safety Data Sheet
Fre-Sil 76 Silicone Release Agent

Section 1 Identification

Product identifiers

Product name: Fre-Sil 76 Silicone Release Agent

Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Mold release agent. For industrial use only.

Details of the supplier of the safety data sheet:

Freeman Manufacturing & Supply Company
 1101 Moore Road, Avon, OH 44011-4043 USA
 Telephone: (440) 934-1902
 Email: contactus@freemansupply.com

24-Hour Emergency Number
CHEMTREC: (800) 424-9300

Section 2 Hazards Identification

GHS Classification in accordance with 29 CFR 1910.1200 (OSHA Hazard Communication Standard)

Flammable aerosols – Category 2
 Aerosols – Category 2

Label elements



Warning

Hazard statements

H223 Flammable aerosol.
 H229 Pressurized container: may burst if heated.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P211 Do not spray on an open flame or other ignition source.
 P251 Do not pierce or burn, even after use.
 P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122 °F.

Section 3 Composition/Information on Ingredients

Chemical Name	CAS Number	Concentration (%)
Dimethyl ether	115-10-6	25 - 50
1,1-difluoroethane	75-37-6	25 - 50

Section 4 First Aid Measures

Description of first aid measures

Inhalation: Remove source(s) of contamination and move victim to fresh air. If breathing has stopped, give artificial respiration, then oxygen if needed. Contact physician immediately.

Eye Contact: Flush eyes with plenty of water. If irritation persists, seek medical attention.

Skin Contact: In case of skin contact, wash thoroughly with soap and water.

Ingestion: Do not induce vomiting unless instructed by a physician. Never give anything by mouth to an unconscious person.

After first aid, get appropriate medical support.

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Section 5 Fire-Fighting Measures

Extinguishing media

Use alcohol-resistant foam, dry chemical or carbon dioxide

Special hazards arising from the substance or mixture

None known.

Advice for firefighters

Use water spray to cool fire-exposed surfaces and to protect personnel. Shut off "fuel" to fire. If a leak or spill has not ignited, use water spray to disperse the vapors. Either allow fire to burn under controlled conditions or extinguish with foam or dry chemical. Try to cover liquid spills with foam. Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full-face piece operated in pressure demand or positive-pressure mode.

Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Only properly protected personnel should remain in the spill area; dike and contain spill. Stop or reduce discharge if it can be done safely.

Environmental precautions

Dike ahead of liquid spill. Prevent entry into waterways, sewers, basements or confined areas.

Land Spill: Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do it without risk. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Prevent entry into waterways, sewer, basements or confined areas. A vapor suppressing foam may be used to reduce vapors. Use clean non-sparking tools to collect absorbed material. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Large Spills: Water spray may reduce vapor; but may not prevent ignition in closed spaces.

Water Spill: Stop leak if you can do it without risk. Eliminate sources of ignition. Warn other shipping. If the Flash Point exceeds the Ambient Temperature by 10°C or more, use containment booms and remove from the surface by skimming or with suitable absorbents when conditions permit. If the Flash Point does not exceed the Ambient Air Temperature by at least 10°C, use booms as a barrier to protect shorelines and allow material to evaporate. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

Methods and material for containment and cleaning up

Put on appropriate protective gear including NIOSH/MSHA approved self-contained breathing apparatus, rubber boots and heavy rubber gloves. Dike and contain spill; absorb or scrape up excess into suitable container for disposal; wash area with dilute ammonia solution. Stop or reduce discharge if it can be done safely. Follow applicable OSHA regulations (29 CFR 1910.120) for disposal.

Section 7 Handling and Storage

Precautions for safe handling

Use good general housekeeping procedures. Wash hands after use. Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Use good personal hygiene practices.

Conditions for safe storage, including any incompatibilities

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated place away from heat, direct sunlight, strong oxidizers and any incompatibles. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous. Avoid water contamination.

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Section 7 Handling and Storage

Specific end use(s)

These precautions are for room temperature handling. Other uses including elevated temperatures or aerosol/spray applications may require added precautions.

Section 8 Exposure Controls/Personal Protection

Components with workplace control parameters

None defined

Appropriate engineering controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits.

Personal protective equipment (PPE)

Respiratory Protection: Respiratory protection is not normally required when using this product with adequate local exhaust ventilation. Where risk assessment shows air-purifying respirators are appropriate, follow OSHA respirator regulations 29 CFR 1910.134 and European Standards EN 141, 143 and 371; wear an MSHA/NIOSH or European Standards EN 141, 143 and 371 approved respirators equipped with appropriate filter cartridges as a backup to engineering controls.

Hand Protection: Wear any liquid-tight gloves such as butyl rubber, neoprene or PVC.

Eye Protection: Safety glasses with side shields per OSHA eye- and face-protection regulations 29 CFR 1910.133 and European Standard EN166. Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Safety Stations

Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work areas.

General Hygienic Practices

Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. Wash thoroughly after handling.

Section 9 Physical and Chemical Properties

Appearance	Colorless aerosol
Odor	Slight ethereal
Odor Threshold	No data available
pH	Not applicable (non-aqueous)
Melting Point	Not applicable
Boiling Range	Not applicable
Flash Point	>300°F
Evaporation Rate	No data available
Flammability (solid, gas)	Nonflammable aerosol
Upper/lower flammability	No data available
Vapor Pressure	518 mmHg @ 70 °F
Vapor Density (Air = 1)	Approximately 4
Density (g/cm³)	No data available
Water Solubility	Negligible
Coefficient: n-octanol/water	No data available
Viscosity	Not applicable
VOC Content	497 g/l

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Section 10 Stability and Reactivity

Reactivity	No hazardous reactions if stored and handled as prescribed/indicated., No corrosive effect on metal. Not fire propagating.
Chemical stability	These products are stable at room temperature in closed containers under normal storage and handling conditions.
Possibility of hazardous reactions	Hazardous polymerization cannot occur.
Conditions to avoid	None known
Incompatible materials	Strong bases and acids
Hazardous decomposition products	Thermal oxidative decomposition can produce carbon oxides, gasses/vapors, and traces of incompletely burned carbon compounds.

Section 11 Toxicological Information

Acute toxicity	No data available
Skin corrosion / irritation	No data available.
Eye damage / irritation	No data available.
Respiratory or skin sensitization	No data available.
Germ cell mutagenicity	No data available
Carcinogenicity	IARC/NTP/OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.
Reproductive toxicity	No data available.
Specific target organ toxicity	
- single exposure	No data available
- repeated exposure	No data available.
Aspiration hazard	No data available

Section 12 Ecological Information

Ecotoxicity	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT & vPvB assessment	No data available

Section 13 Disposal Considerations

Waste treatment methods: Under Resource Conservation and Recovery Act (RCRA) it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste as defined in 40 CFR Part 261. Waste management should be in full compliance with federal, state and local laws. Empty containers retain product residue which may exhibit hazards of material, therefore to not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

Section 14 Transport Information

DOT / IATA / IMDG
UN Number: UN1950
Shipping Name: Aerosols, flammable
Hazard Class: 2.1
Limited Quantity = 1L
EmS: F-D,S-U

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Section 15 Regulatory Information

REACH: Regulation (EC) No 1907/2006 of The European Parliament and of The Council of December 2006 (including amendments and corrigenda as of July 2021): This product complies with REACH or is not subject to regulation under REACH. The product does not contain an ingredient listed on either the Candidate List or Authorization List for Substances of Very High Concern (SVHC).

TSCA Inventory Status (40 CFR710)

All components of this formulation are listed in the TSCA Inventory. No component of this formulation has been determined to be subject to manufacturing or use restrictions under the Significant New Use Rules (SNURs).

US EPA Superfund Amendments and Reauthorization Act (SARA)

SARA 302: This material does not contain any components with a section 302 EHS TPQ.

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Section 112(r) of the Clean Air Act (CAA) Regulated Chemicals for Accidental Release Prevention

TQ 10,000 lb.: Dimethyl ether (CAS 115-10-6) 25-50%, 1,1-difluoroethane (CAS 75-37-6) 25-50%

California Proposition 65

This product does not contain any chemicals including known to the State of California to cause cancer, birth defects, or any other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

Chemical safety assessment

No chemical safety assessment has been carried out for this substance/mixture by the supplier.

Section 16 Other Information

NFPA



HMIS	
H	2
F	2
R	0

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