

SAFETY DATA SHEET

Silico® MF2010-1 cSt Silicone Fluid

SECTION 1: Identification of the Substance and of the Company

1.1 Product Identification

Item	Description
Product Name	1 cSt Silicone Fluid
Chemical Type	Low-viscosity silicone fluid
Synonyms	Silicone Oil 1 cSt, Dimethyl Silicone Fluid
CAS No.	63148-62-9 (Polydimethylsiloxane)
Molecular Formula	$(\text{CH}_3)_3\text{Si-O-[Si}(\text{CH}_3)_2\text{-O}]_n\text{-Si}(\text{CH}_3)_3$
Kinematic Viscosity	1 cSt at 25 °C

1.2 Relevant Identified Uses

Industrial lubricant, release agent, defoaming agent, process fluid.

Uses advised against: Consumer and food-contact applications unless specifically approved.

1.3 Supplier Information

To be completed by manufacturer or distributor.

SECTION 2: Hazards Identification

2.1 Classification under CLP Regulation

This product is **not classified as hazardous** according to Regulation (EC) No. 1272/2008.

2.2 Label Elements

- Signal Word: Not required
- Hazard Pictograms: None
- Hazard Statements: None

2.3 Other Hazards

Spilled material may create slip hazard. Electrostatic charge accumulation is possible during handling.

SECTION 3: Composition / Information on Ingredients

Component	CAS No.	Concentration	Classification
Polydimethylsiloxane (PDMS)	63148-62-9	≥ 99 %	Not classified

SECTION 4: First Aid Measures

Exposure Route	Description
Inhalation	Move to fresh air. Seek medical advice if symptoms persist.
Skin Contact	Wash thoroughly with soap and water.
Eye Contact	Rinse cautiously with clean water for several minutes.
Ingestion	Rinse mouth. Do not induce vomiting. Seek medical attention if necessary.

SECTION 5: Firefighting Measures

Suitable Extinguishing Media: CO₂, dry chemical powder, alcohol-resistant foam

Specific Hazards: Combustion may produce carbon oxides and silicon oxides

Protective Equipment: Self-contained breathing apparatus and full protective gear

SECTION 6: Accidental Release Measures

Personal Precautions: Avoid direct contact, ensure adequate ventilation

Environmental Precautions: Prevent release into drains or waterways

Cleanup Methods: Absorb with inert material and collect for disposal

SECTION 7: Handling and Storage

Handling:

Use good industrial hygiene practices. Avoid aerosol formation. Prevent electrostatic discharge.

Storage:

Store in tightly closed containers in a cool, dry, and well-ventilated area.

SECTION 8: Exposure Controls / Personal Protection

Occupational Exposure Limits

No occupational exposure limits established.

Protection Type	Recommendation
Eye Protection	Safety glasses
Hand Protection	Chemical-resistant gloves
Skin Protection	Protective work clothing
Respiratory Protection	Not normally required

SECTION 9: Physical and Chemical Properties

Property	Value
Appearance	Clear, colorless liquid
Odor	Odorless or faint
Viscosity	1 cSt at 25 °C
Density	~ 0.97 g/cm³ at 25 °C
Flash Point	> 300 °C
Boiling Point	> 300 °C
Water Solubility	Insoluble
Vapor Pressure	Negligible

SECTION 10: Stability and Reactivity

Stable under normal conditions. Avoid extreme heat and strong oxidizing agents.

SECTION 11: Toxicological Information

Endpoint	Result
Acute Oral Toxicity	LD ₅₀ > 5,000 mg/kg
Acute Dermal Toxicity	LD ₅₀ > 2,000 mg/kg
Skin Irritation	Not irritating
Eye Irritation	Not irritating
Sensitization	Not sensitizing

SECTION 12: Ecological Information

Low aquatic toxicity. Not readily biodegradable. Low bioaccumulation potential.

SECTION 13: Disposal Considerations

Dispose of in accordance with local, regional, and national regulations. Incineration in approved facilities is recommended.

SECTION 14: Transport Information

Not regulated as dangerous goods under ADR / IMDG / IATA.

SECTION 15: Regulatory Information

Complies with applicable requirements of REACH and CLP regulations.

SECTION 16: Other Information

The information contained herein is based on current knowledge and is intended to describe the product for safety purposes only.