

Silico® MF2020-1000000 Silicone Fluid

SAFETY DATA SHEET (SDS)

SECTION 1: Identification of the Substance and of the Company

Product Name: Silico® MF2020-1000000 Silicone Fluid

Chemical Name: Polydimethylsiloxane (Linear PDMS)

Synonyms: Ultra-High Viscosity PDMS Silicone Oil

Recommended Uses:

Industrial silicone fluid for extreme-viscosity damping, heavy-duty lubrication, mechanical energy absorption, dielectric insulation, and thermal stability applications.

Uses Advised Against:

Food contact, pharmaceutical, cosmetic, or medical implant applications unless otherwise specified.

Supplier Information:

Company: Silico® Silicone / Daiyue Industrial Area, Taian, Shandong, China

Email: info@silicorex.com

Emergency Contact: +86-0538-5071566

Website: www.silicorex.com

SECTION 2: Hazard Identification

Classification according to GHS / CLP / OSHA:

Not classified as hazardous.

Label Elements:

- Hazard pictograms: None
- Signal word: None
- Hazard statements: None

Other Hazards:

This product is an extremely high-viscosity fluid. Spilled material may create slip hazards on smooth surfaces. No additional hazards are identified.

SECTION 3: Composition / Information on Ingredients

Component	Polydimethylsiloxane
CAS No.	63148-62-9
Concentration	≥ 99%

Contains no hazardous ingredients above applicable disclosure limits.

SECTION 4: First-Aid Measures

General Advice:

No special measures required. Seek medical attention if symptoms persist.

Inhalation:

Move to fresh air. No adverse effects expected under normal conditions.

Skin Contact:

Wash with soap and water. Remove contaminated clothing.

Eye Contact:

Rinse cautiously with clean water for several minutes. Obtain medical advice if irritation occurs.

Ingestion:

Rinse mouth. Do not induce vomiting. Seek medical attention if discomfort develops.

SECTION 5: Fire-Fighting Measures

Suitable Extinguishing Media:

Carbon dioxide (CO₂), dry chemical powder, alcohol-resistant foam, water mist.

Unsuitable Extinguishing Media:

High-pressure water jet.

Specific Hazards:

Thermal decomposition may release carbon oxides and silicon oxides.

Protective Equipment for Firefighters:

Self-contained breathing apparatus and full protective clothing.

SECTION 6: Accidental Release Measures

Personal Precautions:

Wear suitable protective equipment. Avoid slipping hazards caused by spilled material.

Environmental Precautions:

Prevent release into drains, surface waters, or soil.

Methods for Cleaning Up:

Collect using inert absorbent materials and dispose of according to regulations.

SECTION 7: Handling and Storage

Handling:

Avoid formation of aerosols. Observe standard industrial hygiene practices.

Storage:

Store in tightly closed original containers in a cool, dry, and well-ventilated area.
Recommended maximum storage temperature: 40 °C.

SECTION 8: Exposure Controls / Personal Protection

Exposure Limits:

No occupational exposure limits established for this product.

Engineering Controls:

- General ventilation is sufficient.

Personal Protective Equipment:

- Respiratory protection: Not normally required
- Eye protection: Safety goggles
- Hand protection: Chemical-resistant gloves
- Skin protection: Protective work clothing

SECTION 9: Physical and Chemical Properties

Property	Typical Value
Appearance	Clear, colorless to slightly hazy liquid
Odor	Odorless
Viscosity (25 °C)	~1,000,000 cSt
Density (25 °C)	~0.97–0.98 g/cm³
Flash Point	>300 °C
Pour Point	Approx. -50 °C
Solubility in Water	Insoluble
Vapor Pressure	Negligible

SECTION 10: Stability and Reactivity

Reactivity:

No hazardous reactions under normal conditions.

Chemical Stability:

Stable under recommended storage and handling conditions.

Conditions to Avoid:

Excessive heat and open flames.

Incompatible Materials:

Strong oxidizing agents.

Hazardous Decomposition Products:

Carbon oxides, silicon oxides; trace formaldehyde at elevated temperatures.

SECTION 11: Toxicological Information

Acute Toxicity:

- Oral LD₅₀ (rat): >5000 mg/kg
- Dermal LD₅₀ (rat): >2000 mg/kg

Skin / Eye Effects:

Not irritating.

Sensitization:

Not sensitizing.

Chronic Effects:

No evidence of carcinogenicity, mutagenicity, or reproductive toxicity.

SECTION 12: Ecological Information

Ecotoxicity:

Low toxicity to aquatic organisms.

Persistence and Degradability:

Not readily biodegradable; degrades primarily through abiotic processes.

Bioaccumulation:

Not expected to bioaccumulate.

Mobility:

Low mobility due to water insolubility.

SECTION 13: Disposal Considerations

Dispose of product and packaging in accordance with local, regional, and national regulations.

SECTION 14: Transport Information

UN Number: Not regulated

Transport Hazard Class: Not applicable

Packing Group: Not applicable

Product is not classified as hazardous for transport.

SECTION 15: Regulatory Information

This product complies with major chemical inventory requirements (e.g. TSCA, applicable REACH listings). Regulatory status may vary by region.

SECTION 16: Other Information

The information provided in this Safety Data Sheet is based on current knowledge and is intended for professional users. It does not constitute a product specification or warranty.