

# 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](mailto:info@silicorex.com)

Emergency Contact: +86-0538-5071566

Website: [www.silicorex.com](http://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 (CO<sub>2</sub>), 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/cm <sup>3</sup>
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 LD<sub>50</sub> (rat): >5000 mg/kg
- Dermal LD<sub>50</sub> (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.