

Silico® MF2020-500000 Silicone Fluid

Safety Data Sheet

Section 1: Identification of the Substance and Company

Product Name:

Silico® MF2020-500000 Silicone Fluid

Chemical Description:

Ultra-High Viscosity Polydimethylsiloxane (PDMS)

Recommended Use:

Industrial lubricant, damping fluid, release agent, specialty coating, and high-load mechanical fluid applications.

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(s) Identification

GHS Classification:

Not classified as hazardous according to GHS criteria.

Label Elements:

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

Other Hazards:

- Spilled material may cause slipping hazard
- High viscosity may complicate mechanical cleanup if released

Section 3: Composition / Information on Ingredients

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

Impurities:

No hazardous impurities present within detection limits.

Section 4: First-Aid Measures

Inhalation:

Move person to fresh air. No special treatment normally required.

Skin Contact:

Wash with soap and water. Remove contaminated clothing if necessary.

Eye Contact:

Rinse cautiously with water for several minutes. Seek medical attention if irritation persists.

Ingestion:

Rinse mouth. Do not induce vomiting unless directed by medical personnel.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media:

Dry chemical powder, foam, carbon dioxide (CO₂).

Specific Hazards:

Thermal decomposition may produce formaldehyde, silicon dioxide, and carbon oxides.

Protective Equipment:

Firefighters should wear self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

Personal Precautions:

Avoid contact with spilled material. Prevent slipping hazards.

Environmental Precautions:

Prevent discharge into drains or watercourses.

Cleanup Methods:

Absorb with inert material (sand, diatomaceous earth). Collect mechanically and dispose according to regulations.

Section 7: Handling and Storage

Handling:

Use good industrial hygiene practices. Avoid prolonged contact.

Storage:

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

Incompatibilities:

Strong oxidizing agents.

Section 8: Exposure Controls / Personal Protection

Exposure Limits:

No occupational exposure limits established.

Engineering Controls:

General ventilation is sufficient.

Personal Protective Equipment:

- Gloves (chemical resistant)
- Safety glasses for splash protection

Section 9: Physical and Chemical Properties

Property	Value
Appearance	Clear, colorless viscous fluid
Odor	Odorless
Viscosity (25 °C)	~500,000 cSt
Density (25 °C)	~0.97 g/cm ³
Flash Point	>300 °C
Solubility	Insoluble in water

Section 10: Stability and Reactivity

Stability:

Stable under normal conditions.

Reactivity:

No hazardous reactions under normal use.

Conditions to Avoid:

Extreme heat and open flame.

Section 11: Toxicological Information

Acute Toxicity:

Low toxicity based on available data.

Skin & Eye Effects:

May cause mild, transient irritation.

Chronic Effects:

No known chronic toxicity.

Section 12: Ecological Information

Ecotoxicity:

Low aquatic toxicity.

Persistence & Degradability:

Not readily biodegradable.

Bioaccumulation:

Low potential.

Section 13: Disposal Considerations

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

Section 14: Transport Information

UN Number: Not regulated

Transport Hazard Class: Not applicable

Environmental Hazard: No

Section 15: Regulatory Information

Complies with applicable chemical inventory regulations including REACH and TSCA (where applicable).

Section 16: Other Information

The information provided is based on current knowledge and is intended for professional industrial users. It does not constitute a guarantee of specific properties.