

Silico® MF2020-60000 Silicone Fluid

SAFETY DATA SHEET (SDS)

SECTION 1: Identification of the Substance and of the Company

Product Identifier

Product Name: Silico® MF2020-60000 Silicone Fluid

Chemical Name: Polydimethylsiloxane

CAS Number: 63148-62-9

Relevant Identified Uses of the Substance

- Ultra-high viscosity silicone fluid for industrial applications
- Mechanical damping and vibration control medium
- High-load lubrication and sealing fluid
- Dielectric insulation and thermal management applications

Uses Advised Against

- Not intended for food contact, pharmaceutical, or medical applications unless specifically approved.

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 Regulation (EC) No. 1272/2008 (CLP)

The substance is not classified as hazardous according to GHS / CLP criteria.

Label Elements

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

Other Hazards

- Spilled material may create a slip hazard due to very high viscosity and surface lubricity.

SECTION 3: Composition / Information on Ingredients

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

No hazardous components are present above applicable regulatory thresholds.

SECTION 4: First-Aid Measures

General Information

No special measures required under normal industrial use.

Inhalation

Move person to fresh air. Seek medical attention if symptoms persist.

Skin Contact

Wash with soap and water. Remove contaminated clothing.

Eye Contact

Rinse cautiously with 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

Water mist, carbon dioxide (CO₂), dry chemical powder, alcohol-resistant foam.

Unsuitable Extinguishing Media

High-pressure water jet.

Specific Hazards

Thermal decomposition may produce 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 appropriate protective equipment. Avoid slip hazard.

Environmental Precautions

Prevent release into drains, surface water, or soil.

Methods for Cleaning Up

Absorb with inert materials such as sand or earth. Collect in suitable containers for disposal.

SECTION 7: Handling and Storage

Handling

Avoid contact with eyes and prolonged skin contact. Maintain good industrial hygiene practices.

Storage

Store in original, tightly closed 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 PDMS.

Engineering Controls

General ventilation is sufficient.

Personal Protective Equipment

- 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	Typical Value
Appearance	Clear, colorless, highly viscous liquid
Odor	Odorless
Viscosity (25 °C)	~60,000 cSt
Density (25 °C)	~0.97 g/cm³
Flash Point	> 300 °C
Pour Point	Approx. -50 °C
Solubility	Insoluble in water
Vapor Pressure	Negligible

Values are typical and not intended as product specifications.

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, open flames.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

Silicon oxides and carbon oxides.

SECTION 11: Toxicological Information

Based on available data for PDMS:

- Acute Toxicity: Low
- Skin / Eye Irritation: Not classified as irritating
- Sensitization: Not expected
- Carcinogenicity / Mutagenicity / Reproductive Toxicity: Not classified

SECTION 12: Ecological Information

Ecotoxicity: Low aquatic toxicity

Persistence and Degradability: Not readily biodegradable

Bioaccumulative Potential: Not expected

Mobility in Soil: Insoluble in water; adsorbs to soil particles

SECTION 13: Disposal Considerations

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

SECTION 14: Transport Information

Not classified as dangerous goods under ADR, IMDG, or IATA regulations.

SECTION 15: Regulatory Information

This product complies with major global chemical inventory requirements. Regulatory status should be confirmed according to destination country regulations.

SECTION 16: Other Information

This Safety Data Sheet is intended for professional and industrial users of Silico® MF2020-60000 Silicone Fluid and is based on current technical knowledge.