

Silico® MF2020-30000 Silicone Fluid

SAFETY DATA SHEET (SDS)

SECTION 1: Identification of the Substance and the Company

Product Identifier

Product Name: Silico® MF2020-30000 Silicone Fluid

Chemical Name: Polydimethylsiloxane (PDMS)

CAS Number: 63148-62-9

Recommended Uses

- Ultra-high viscosity silicone fluid for precision mechanical damping and motion control
- Heavy-load lubrication and industrial sealing applications
- High-performance dielectric insulation and thermal management fluids
- Mold release agents in manufacturing processes

Uses Not Recommended

- Food, 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 (GHS / CLP):

Not classified as hazardous according to Regulation (EC) No. 1272/2008.

Label Elements:

- Signal Word: None
- Hazard Pictograms: None
- Hazard Statements: None required

Other Hazards:

- Spills may create slip hazards due to high viscosity and lubricity
- No PBT or vPvB properties identified at $\geq 0.1\%$

SECTION 3: Composition / Information on Ingredients

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

Note: Contains no hazardous substances above regulatory thresholds.

SECTION 4: First-Aid Measures

General Advice:

Seek medical attention if symptoms persist. Show this SDS to medical personnel.

Inhalation:

Move to fresh air. Seek medical advice if respiratory irritation occurs.

Skin Contact:

Wash thoroughly with soap and water. Remove contaminated clothing.

Eye Contact:

Rinse immediately with water for several minutes. Obtain medical advice if irritation persists.

Ingestion:

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

SECTION 5: Fire-Fighting Measures

Suitable Extinguishing Media:

- Water mist
- Dry chemical powder
- Alcohol-resistant foam
- Carbon dioxide (CO₂)

Unsuitable Media:

- High-pressure water jet

Hazards During Fire:

- Thermal decomposition may generate carbon oxides and silicon oxides

Firefighter Protection:

- Use self-contained breathing apparatus and protective fire clothing

SECTION 6: Accidental Release Measures

Personal Precautions:

- Wear protective gloves, eyewear, and clothing
- Avoid walking on spilled material (slip hazard)

Environmental Precautions:

- Prevent release to drains, watercourses, or soil

Cleanup Methods:

- Absorb with inert materials (sand, earth)
- Collect in labeled containers for proper disposal

SECTION 7: Handling and Storage

Handling:

- Avoid skin and eye contact
- Maintain good industrial hygiene
- Prevent aerosol formation

Storage:

- Keep in original, tightly sealed containers
- Store in a cool, dry, well-ventilated area
- Maximum recommended storage temperature: 40 °C

SECTION 8: Exposure Controls / Personal Protection

Exposure Limits:

- No established occupational exposure limits for PDMS

Engineering Controls:

General ventilation recommended

Personal Protective Equipment:

- Eyes: Safety goggles
- Hands: Chemical-resistant gloves
- Skin: Protective industrial clothing

- Respiratory: Not required unless mist/aerosol occurs

SECTION 9: Physical and Chemical Properties

Property	Typical Value
Appearance	Clear, colorless viscous liquid
Odor	Odorless
Viscosity (25 °C)	~30,000 cSt
Density (25 °C)	~0.97 g/cm ³
Flash Point	> 300 °C
Pour Point	Approx. -50 °C
Water Solubility	Insoluble
Vapor Pressure	Negligible

Typical values, not a product specification.

SECTION 10: Stability and Reactivity

- Reactivity: Stable under normal industrial use
- Chemical Stability: Stable if stored per recommendations
- Conditions to Avoid: Excessive heat, flames
- Incompatible Materials: Strong oxidizers
- Hazardous Decomposition: Silicon oxides and carbon oxides at high temperatures

SECTION 11: Toxicological Information

- Acute Toxicity: Very low toxicity (based on PDMS data)
- Skin/Eye Irritation: Not classified as irritating
- Sensitization: Not expected
- Chronic Effects: Not classified as carcinogenic, mutagenic, or toxic for reproduction

SECTION 12: Ecological Information

- Ecotoxicity: Low aquatic toxicity
- Persistence and Degradability: Not readily biodegradable

- Bioaccumulation: Not expected
- Mobility: Insoluble in water, adheres to soil particles

SECTION 13: Disposal Considerations

- Dispose of product and packaging per local, regional, and national regulations

SECTION 14: Transport Information

- UN Number: Not regulated
- Transport Hazard Class: Not classified
- Packing Group: Not applicable

SECTION 15: Regulatory Information

- Complies with major chemical inventory regulations (TSCA, REACH, etc.)
- Verify destination-specific regulations prior to use or export

SECTION 16: Other Information

- This SDS is intended for professional and industrial users of Silico® MF2020-30000 Silicone Fluid
- Provides current knowledge on high viscosity PDMS industrial fluids
- Not a warranty of product performance