

Silico® MF2020-5000 Silicone Fluid

SAFETY DATA SHEET (SDS)

SECTION 1: Product Identification

Product Name: Silico® MF2020-5000 Silicone Fluid

Synonyms: High-Viscosity Polydimethylsiloxane (PDMS), Industrial Silicone Oil

CAS Number: 9006-65-9 / 63148-62-9 (typical PDMS identifiers)

EC Number: Not assigned

Recommended Uses: Industrial silicone fluid for lubrication, damping, release agent, electrical insulation, and surface treatment.

Uses Advised Against: Not intended for food, pharmaceutical, or medical applications without proper certification.

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

GHS Classification:

Not classified as hazardous under GHS, OSHA HCS 2012, or EU CLP regulations.

Label Elements:

- Signal Word: None
- Hazard Statements: None required
- Precautionary Measures: Follow standard industrial hygiene and handling procedures.

Other Hazards:

- Prolonged or repeated skin contact may cause mild dryness.

SECTION 3: Composition / Information on Ingredients

Component	CAS No.	Content	Hazard Classification
Polydimethylsiloxane (PDMS)	9006-65-9 / 63148-62-9	>99%	Not classified

Notes: This product is a pure high-viscosity Silico silicone fluid and contains no hazardous impurities above regulatory thresholds.

SECTION 4: First Aid Measures

Inhalation: Move to fresh air. Seek medical attention if symptoms persist.

Skin Contact: Wash with soap and water. Remove contaminated clothing.

Eye Contact: Rinse immediately with plenty of water for 10–15 minutes. Seek medical attention if irritation occurs.

Ingestion: Rinse mouth. Do not induce vomiting. Seek medical attention if discomfort occurs.

Note to Physicians: Treat symptomatically. This industrial PDMS silicone oil is of low acute toxicity.

SECTION 5: Firefighting Measures

Suitable Extinguishing Media:

- Water spray, foam, dry chemical, CO₂

Unsuitable Extinguishing Media:

- Direct water jet

Hazardous Combustion Products:

- Carbon oxides, silicon oxides

Firefighting Instructions:

- Wear self-contained breathing apparatus and protective clothing.
- Use standard industrial firefighting procedures.

SECTION 6: Accidental Release Measures

Personal Precautions:

- Avoid inhalation of mist. Use PPE (gloves, goggles, protective clothing).

Environmental Precautions:

- Prevent release into drains, soil, or waterways.

Spill Cleanup Methods:

- Absorb with inert material (sand, earth).
- Collect and dispose of according to local regulations.

SECTION 7: Handling and Storage

Handling:

- Avoid generating aerosols.
- Use good industrial hygiene practices.

Storage:

- Store in tightly closed containers, in a cool, dry, and well-ventilated area.
- Avoid prolonged exposure to high temperatures or open flames.

SECTION 8: Exposure Controls / Personal Protection

Engineering Controls:

- Use local exhaust ventilation if mists are generated.

Personal Protective Equipment (PPE):

- Respiratory: Not required under normal use; if mist/aerosol forms, use appropriate respirator.
- Eye Protection: Safety goggles
- Skin Protection: Nitrile or chemical-resistant gloves

Hygiene Measures:

- Wash hands after handling.
- Do not eat, drink, or smoke in work areas.

SECTION 9: Physical and Chemical Properties

Property	Value
Appearance	Clear, colorless liquid
Odor	Odorless
pH	Neutral (~7)
Melting/Freezing Point	< -50 °C
Boiling Point	> 200 °C
Flash Point	> 130 °C
Density @25 °C	~0.97 g/cm ³
Viscosity @25 °C	~5000 cSt
Solubility	Insoluble in water

Notes: This high-viscosity PDMS silicone oil provides superior lubrication and surface release properties.

SECTION 10: Stability and Reactivity

Stability: Stable under recommended storage and handling conditions.

Conditions to Avoid: High temperatures, open flames

Incompatible Materials: Strong oxidizing agents

Hazardous Decomposition Products: Carbon oxides and silicon oxides during combustion

SECTION 11: Toxicological Information

- Acute Toxicity: Low, not classified
- Skin Irritation: Minimal, non-irritant
- Eye Irritation: Minimal
- Sensitization: Not expected
- Chronic Effects: No known long-term effects for industrial use

SECTION 12: Ecological Information

- Aquatic Toxicity: Not harmful at environmental concentrations
- Persistence/Degradability: Not readily biodegradable
- Bioaccumulation Potential: Low
- Mobility in Soil: Limited; adheres to soil and sediments

SECTION 13: Disposal Considerations

- Dispose of in accordance with local, regional, and national regulations.
- Avoid release to drains and waterways.

SECTION 14: Transport Information

- Not classified as dangerous goods.
- UN Number: None
- Proper Shipping Name: Not applicable
- Transport Hazard Class: None
- Packing Group: None

SECTION 15: Regulatory Information

- Complies with applicable EU, US, and international chemical safety regulations.
- No additional labeling required.

SECTION 16: Other Information

- Disclaimer: The information provided is believed to be accurate and is offered in good faith. Users should verify suitability for their intended application.