Shandong Silico Silicone Materials Co., Ltd.
Address: Daiyue Industrial Area, Taian City, Shandong, China
Tel: +86-0538-5071566 ZIP: 271500
Email: info@silicorex.com Website: https://silicorex.com

Silico® MF2020-500 Silicone Fluid

SAFETY DATA SHEET (SDS)

SECTION 1: Identification of the Substance and the Company

1.1 Product Identifier

Trade Name: Silico® MF2020-500 Silicone Fluid
Chemical Name: Polydimethylsiloxane (PDMS)
CAS Number: 9006-65-9 / 63148-62-9
Molecular Type: Linear silicone polymer
Product Category: High-viscosity silicone fluid / industrial silicone oil

1.2 Identified Uses

Industrial applications including, but not limited to:
lubrication, damping fluid, mold release agent, electrical insulation fluid, surface treatment agent, and process aid in chemical and manufacturing industries.

Uses Advised Against

Any application involving food, pharmaceuticals, cosmetics, or medical devices unless specifically approved and certified.

1.3 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

2.1 Classification

This substance is not classified as hazardous according to GHS and Regulation (EC) No. 1272/2008 (CLP).

2.2 Label Elements

- Signal Word: Not required
- Hazard Statements: Not applicable
- Precautionary Statements: Observe good industrial hygiene and safety practices.

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2.3 Other Hazards
No additional hazards identified under normal conditions of use.

SECTION 3: Composition / Information on Ingredients

Substance:
Linear polydimethylsiloxane silicone fluid.

Component	Polydimethylsiloxane
CAS No.	9006-65-9 / 63148-62-9
Concentration	≥ 99%

Contains no hazardous impurities above regulatory disclosure limits.

SECTION 4: First-Aid Measures

General Advice:
Seek medical advice if discomfort persists and show this SDS to medical personnel.

- Inhalation: Move to fresh air.
- Skin Contact: Wash with soap and water.
- Eye Contact: Rinse cautiously with clean water for several minutes.
- Ingestion: Rinse mouth. Do not induce vomiting.

SECTION 5: Fire-Fighting Measures

Suitable Extinguishing Media:
Water mist, foam, dry powder, carbon dioxide (CO_2).

Specific Hazards:
Thermal decomposition may produce carbon oxides and silicon oxides.

Protective Equipment:
Self-contained breathing apparatus and full protective clothing recommended.

SECTION 6: Accidental Release Measures

Personal Precautions:
Avoid contact with eyes and skin. Use appropriate PPE.

Environmental Precautions:
Prevent entry into drains, waterways, and soil.

Cleanup Methods:
Absorb with inert material and dispose of according to regulations.

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SECTION 7: Handling and Storage

Handling:
Avoid aerosol formation. Maintain good ventilation.

Storage:
Store in sealed containers in a cool, dry, and well-ventilated area away from heat sources.

SECTION 8: Exposure Controls / Personal Protection

- Engineering Controls: Adequate ventilation
- Eye Protection: Safety goggles
- Hand Protection: Chemical-resistant gloves
- Respiratory Protection: Not normally required

SECTION 9: Physical and Chemical Properties

Property	Typical Value
Appearance	Clear, colorless liquid
Odor	Odorless
Density (25 °C)	~0.97 g/cm³
Flash Point	>130 °C
Boiling Point	>200 °C
Vapor Pressure	Negligible
Water Solubility	Insoluble
Viscosity (25 °C)	~500 cSt
Solubility	Insoluble in water

Typical values for high-viscosity PDMS silicone fluids.

SECTION 10: Stability and Reactivity

- Chemical Stability: Stable under normal conditions
- Incompatible Materials: Strong oxidizing agents
- Hazardous Decomposition: COx, SiOx at elevated temperatures

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SECTION 11: Toxicological Information

Based on available data for PDMS silicone fluids, acute toxicity is low and no significant health hazards are expected during normal industrial use.

SECTION 12: Ecological Information

- Not readily biodegradable
- Low aquatic toxicity
- Low bioaccumulation potential
- Insoluble in water

SECTION 13: Disposal Considerations

Dispose of product and packaging in accordance with local environmental regulations.

SECTION 14: Transport Information

Not regulated as dangerous goods under ADR, IMDG, IATA, or RID.

SECTION 15: Regulatory Information

This product complies with applicable GHS, CLP, and REACH requirements.

SECTION 16: Other Information

The information contained herein is based on current knowledge and is provided in good faith for safety guidance.