

Silico® MF2020-20 cSt Silicone Fluid

Safety Data Sheet (SDS)

SECTION 1: Identification

Product Name: Silico® MF2020-20 Silicone Fluid

Chemical Name: Polydimethylsiloxane (PDMS)

Viscosity: 20 cSt @ 25°C

CAS No.: 63148-62-9

Recommended Use:

Industrial-grade low viscosity silicone fluid used in lubricants, release agents, personal care formulations, textile finishing, defoamers, and surface treatment 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 Identification

GHS Classification:

Not classified as hazardous according to GHS criteria.

Signal Word: Not required

Hazard Statements: Not classified as dangerous under normal industrial handling.

Precautionary Statements:

- Avoid contact with eyes.
- Prevent spills to reduce slip hazards.
- Use appropriate industrial hygiene practices.

Other Hazards:

Spilled material may create extremely slippery surfaces.

SECTION 3: Composition / Information on Ingredients

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

No hazardous additives present.

SECTION 4: First Aid Measures

Inhalation:

Move to fresh air. Seek medical attention if irritation persists.

Skin Contact:

Wash with soap and water.

Eye Contact:

Rinse cautiously with water for several minutes. Remove contact lenses if present.

Ingestion:

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

SECTION 5: Fire-Fighting Measures

Suitable Extinguishing Media:

Foam, dry chemical powder, carbon dioxide (CO₂), water spray.

Specific Hazards:

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

Protective Equipment:

Self-contained breathing apparatus (SCBA) recommended.

SECTION 6: Accidental Release Measures

Personal Precautions:

Avoid slipping hazards. Wear protective gloves if necessary.

Environmental Precautions:

Prevent large quantities from entering waterways.

Cleanup Methods:

Absorb with inert material (sand, diatomaceous earth). Collect mechanically and dispose in accordance with local regulations.

SECTION 7: Handling and Storage

Handling:

Use in well-ventilated areas. Avoid contact with strong oxidizing agents.

Storage:

Store in tightly sealed containers in a cool, dry place.
Recommended storage temperature: 5–30°C.

SECTION 8: Exposure Controls / Personal Protection

Exposure Limits: Not established.

Engineering Controls:

General ventilation recommended.

Personal Protective Equipment (PPE):

- Safety glasses
- Protective gloves
- Standard industrial workwear

SECTION 9: Physical and Chemical Properties

Property	Value
Appearance	Clear, colorless liquid
Odor	Odorless
Viscosity (25°C)	20 cSt
Density (25°C)	~0.95 g/cm³
Flash Point	>300°C
Solubility in Water	Insoluble
Refractive Index	~1.40

SECTION 10: Stability and Reactivity

Chemical Stability: Stable under normal conditions.

Incompatible Materials: Strong oxidizers.

Hazardous Decomposition Products: Silicon oxides, carbon oxides under high heat.

SECTION 11: Toxicological Information

Based on available data for PDMS silicone oil:

- Low acute toxicity
- Not expected to cause skin irritation
- Not classified as carcinogenic
- Prolonged contact may cause mild eye irritation.

SECTION 12: Ecological Information

- Not readily biodegradable
- Low water solubility
- Minimal bioaccumulation potential

Avoid uncontrolled release to the environment.

SECTION 13: Disposal Considerations

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

Incineration in approved facilities is recommended.

SECTION 14: Transport Information

Not regulated as dangerous goods under:

- ADR
- IMDG
- IATA
- DOT

SECTION 15: Regulatory Information

Complies with major international chemical inventory regulations (TSCA, REACH, etc., subject to grade confirmation).

SECTION 16: Other Information

This Safety Data Sheet applies specifically to Silico® MF2020-20 low viscosity silicone fluid, a 20 cSt PDMS oil widely used in industrial lubrication, defoaming, and surface modification systems.

The information provided is based on current knowledge and is intended for industrial safety guidance only.