

# **Silico® MF2020-100 Silicone Fluid**

## **SAFETY DATA SHEET (SDS)**

High-Purity Polydimethylsiloxane (PDMS) Industrial Silicone Fluid – 100 cSt

### **SECTION 1: Product and Company Identification**

#### **1.1 Product Identifier**

Trade Name: Silico® MF2020-100 Silicone Fluid

Chemical Name: Polydimethylsiloxane (PDMS)

CAS No.: 9006-65-9 / 63148-62-9

Description: Clear, high-purity linear silicone polymer, widely used for lubrication, surface treatment, and damping applications

#### **1.2 Recommended Uses**

- Lubrication fluids and damping oils
- Release agents in industrial molds
- Electrical insulation and heat transfer applications
- Surface treatment and coating aids
- General-purpose industrial process fluid

#### **Uses Not Recommended**

- Food, cosmetic, pharmaceutical, or medical applications unless specifically certified

#### **1.3 Supplier Information**

Company: Silico® Silicone / Daiyue Industrial Area, Taian, Shandong, China

Email: [info@silicorex.com](mailto:info@silicorex.com)

Emergency Contact: +86-0538-5071566

Website: [www.silicorex.com](https://silicorex.com)

### **SECTION 2: Hazard Identification**

#### **Classification**

- Not classified as hazardous under CLP/GHS criteria

#### **Label Elements**

- Signal Word: None required
- Hazard Statements: Not applicable
- Precautionary Statements: Follow standard industrial hygiene practices and PPE recommendations

#### **Other Hazards**

- No additional hazards under normal industrial conditions

## SECTION 3: Composition / Information on Ingredients

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

Notes: No other substances are present above regulatory disclosure limits. ([sinosil.com](http://sinosil.com))

## SECTION 4: First Aid Measures

- Inhalation: Move to fresh air. Seek medical attention if symptoms persist
- Skin Contact: Wash thoroughly with soap and water
- Eye Contact: Rinse immediately with water for at least 10 minutes
- Ingestion: Rinse mouth with water. Do not induce vomiting
- Symptoms/Effects: No acute or delayed effects known under normal conditions

## SECTION 5: Firefighting Measures

- Extinguishing Media: Water mist, foam, dry chemical, carbon dioxide
- Unsuitable Media: Water jet
- Special Hazards: Thermal decomposition may release carbon oxides and silicon oxides
- Protection for Firefighters: Wear self-contained breathing apparatus and full protective clothing

## SECTION 6: Accidental Release Measures

- Personal Precautions: Use PPE, avoid contact with skin/eyes
- Environmental Precautions: Prevent release to drains, watercourses, or soil
- Cleanup Methods: Absorb with inert material; dispose of according to local regulations

## SECTION 7: Handling and Storage

- Handling: Avoid mist or aerosol formation; maintain good industrial hygiene
- Storage: Store in sealed containers in a cool, dry, well-ventilated area away from heat and ignition sources

## SECTION 8: Exposure Controls / Personal Protection

- Engineering Controls: Adequate ventilation recommended
- Eye Protection: Safety goggles
- Hand Protection: Chemical-resistant gloves
- Respiratory Protection: Not normally required; use respirator if aerosol forms
- Hygiene: Wash hands after handling; do not eat, drink, or smoke in work areas

## SECTION 9: Physical and Chemical Properties

Property	Typical Value
Appearance	Clear, colorless liquid
Odor	Odorless
pH	≈ 7
Melting/Freezing Point	< -50 °C
Boiling Point	> 200 °C
Flash Point	> 130 °C
Flammability	Not applicable
Vapor Pressure	Negligible
Density (25 °C)	~0.97 g/cm³
Water Solubility	Insoluble
Viscosity (25 °C)	~100 cSt
Autoignition Temp	~350 °C
Decomposition Temp	> 250 °C

High-purity PDMS silicone fluid suitable for industrial lubrication, damping, and surface applications

## SECTION 10: Stability and Reactivity

- Reactivity: Stable under recommended conditions
- Chemical Stability: Stable at normal temperature and pressure
- Conditions to Avoid: Direct sunlight, excessive heat
- Incompatible Materials: Strong oxidizers
- Hazardous Decomposition Products: Carbon oxides, silicon oxides

## SECTION 11: Toxicological Information

- Acute toxicity: Oral LD50 > 5000 mg/kg; Dermal LD50 > 2000 mg/kg (rat, literature)
- Skin/eye irritation: Not irritating
- Respiratory or skin sensitization: Not sensitizing
- Chronic effects: No carcinogenic, mutagenic, or reproductive effects identified

## SECTION 12: Ecological Information

- Aquatic toxicity: Low
- Persistence/Degradability: Not readily biodegradable
- Bioaccumulation: Low potential
- Mobility in soil: Adsorbs to soil and sediment; insoluble in water

## SECTION 13: Disposal Considerations

- Dispose of in compliance with local, regional, and national regulations
- Avoid environmental release

## SECTION 14: Transport Information

Not classified as dangerous goods under ADR, IMDG, IATA, RID

## SECTION 15: Regulatory Information

Compliant with REACH, CLP, and GHS regulations

## SECTION 16: Other Information

This SDS is based on current knowledge and regulatory requirements

Intended for safe handling, storage, and use