# SAFETY DATA SHEET

SiSiB® MF2010-10 SILICONE FLUID

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#### SECTION 1: Identification of the substance/mixture and of the company

Product Identifier	
Product Name:	SiSiB® MF2010-10
Chemical Name:	Polydimethylsiloxane
CAS-No.:	9006-65-9 / 9016-00-6 / 63148-62-9
EC-No.:	618-433-4 / 618-493-1 / 613-156-5
Relevant identified uses of the sub	ostance or mixture and uses advised against
Relevant applications identified	For Industrial Use
Details of the supplier of the safet	y data sheet
Company	Nanjing SiSiB Silicones Co., Ltd.
	Guanghua Sci & Tech Industrial Zone,
	No. 104, Guanghua Road, Nanjing 210007, P.R.China
	Email: SDS@SiSiB.com
Emergency Telephone Number:	+86-25-8468-0091

#### **SECTION 2: Hazardous identification**

Classification of the substance or mixture Classification (GHS): Not a hazardous substance or mixture. Label elements Labelling (GHS): No labeling according to GHS required. Other hazards No data available

#### **SECTION 3: Composition/information on ingredients**

#### Substances

Chemical characteristics Polydimethylsiloxane

#### Information on ingredients:

This material does not contain any ingredients above the permitted limit(s).

Substances listed in the Subsections "HAPS" and "California Proposition 65 Carcinogens / Reproductive Toxins" that are not listed in this section are only present at quantities below 0.1% for California Proposition 65 listed toxins or below 1% for non-carcinogenic HAPS or they are inextricably bound in the product. Specific chemical identities and/or exact percentage (concentration) of the composition may have been withheld as a trade secret.

#### **SECTION 4: First aid measures**

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#### **General advice**

Get medical attention if irritation or other symptoms occur. Before seeking medical attention remove contaminated clothing and shoes. Take a copy of the Safety Data Sheet when going for medical treatment.

#### After inhalation

Material cannot be inhaled under normal conditions. No special treatment required.

#### After contact with the skin

After skin contact wipes off excess material with cloth or paper. Use a waterless hand cleaner to remove as much of the remaining material as possible. Wash with soap and water.

#### After contact with the eyes

If contact with eyes, immediately hold eyelids apart and flush with plenty of water for at least 15 min.

#### After swallowing

No special measures are required after swallowing.

#### **SECTION 5: Firefighting measures**

#### Flammable properties:

Property:	Value:	Method:
Flash point	> 1800 °C (> 356 °F)	(ISO 2592)
Flash point	> 145 °C (> 293 °F)	(EN 2719)
Boiling point / boiling range	390 °C (734 °F) at 1013 hPa	(EU-GL.A.2)
Lower explosion limit (LEL)	not applicable	
Upper explosion limit (UEL)	not applicable	
Ignition temperature	365 °C (689 °F)	(EN 14522)
NFPA Hazard Class (comb. /flam. Liquid)	IIIB	

#### Fire and explosion hazards:

This material does not present any unusual fire or explosion hazards.

#### Recommended extinguishing media:

Water-mist, carbon dioxide, sand, dry chemical or alcohol-resistant foam.

#### Unsuitable extinguishing media:

Water-spray, sharp water jet.

## Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

Hazardous decomposition products: carbon dioxide, carbon monoxide, formaldehyde, silicon dioxide and incompletely burnt hydrocarbons.

#### Firefighting procedures:

Fire fighters should wear full protective clothing including a self-contained breathing apparatus. Cool endangered containers with water.



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#### **SECTION 6: Accidental release measures**

#### **Precautions:**

Secure the area. Wear personal protection equipment (see section 8). Keep unprotected persons away. If material is released indicate risk of slipping. Do not walk through spilled material. HAZWOPER PPE Level: D

#### **Containment:**

Prevent material from entering surface waters, drains or sewers and soil. Close leak if possible without risk. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Inform authorities if substance leaks into surface waters, sewerage or ground.

Spills of material which could reach surface waters must be reported to the United States Coast Guard National Response Center's toll free phone number (800) 424-8802.

#### Methods for cleaning up

Take up mechanically and dispose of according to local/state/federal regulations. Do not flush away with water. For small amounts: Absorb with a neutral (non-acidic / non-basic) liquid binding material such as diatomaceous earth and dispose of according to government regulations. For large amounts: Liquids may be recovered using suction devices or pumps. If flammable, only air driven or properly rated electrical equipment should be used. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Silicone fluids are slippery; spills are a safety hazard. Apply sand or other inert granular material to improve traction.

#### **SECTION 7: Handling and storage**

#### Precautions for safe handling

Avoid formation of aerosols. In case of aerosol formation special protective measures are required (exhausting by suction, respiratory protection). Spilled substance increases risk of slipping. Observe information in section 8.

#### Precautions against fire and explosion:

Observe the general rules for fire prevention.

Conditions for storage rooms and vessels:

Observe local/state/federal regulations.

#### Advice for storage of incompatible materials:

Observe local/state/federal regulations.

#### Further information for storage:

Store in a dry and cool place.

Maximum temperature allowed during storage and transportation: 50 °C (122 °F)

#### **SECTION 8: Exposure Controls/Personal Protection**



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Engineering contr	ols	
Ventilation:		
Use with adequate	ventilation.	
Local exhaust:		
Not necessary		
Personal protection	on equipment (PPE)	
Respiratory protect	ction:	
Respiratory protecti	on is not normally required.	
Hand protection:		
Recommendation:	Any liquid-tight rubber or vinyl g	loves.
Eye protection:		
Recommendation: S	Safety glasses with side shields	
Other protective c	lothing or equipment:	
Additional protective	e clothing or equipment is not ne	ormally required. Provide eye bath and safety shower.
General hygiene a	nd protection measures:	
When handling doe	s not eat, drink, smoke or apply	cosmetics. Wash thoroughly after handling.

### **SECTION 9: Physical and Chemical Properties**

#### Information on basic physical and chemical properties

Appearance		
Physical state / form:	liquid	
Color:	colorless, clear	
Odor:	odorless	
Safety parameters		
Property:	Value:	Method:
Melting point / melting range:	-65 °C (-85 °F)	
Boiling point / boiling range:	390 °C (734 °F) at 1013 hPa	(EU-GL.A.2)
Flash point	180°C (> 356 °F)	(ISO 2592)
Flash point	> 145 °C (> 293 °F)	(ISO 2719)
Ignition temperature	365 °C (689 °F)	(EN 14522)
Lower explosion limit (LEL)	not applicable	
Upper explosion limit (UEL)	not applicable	
Vapor pressure:	227 hPa / 274 °C (525 °F)	
Vapor pressure:	21 hPa / 199 °C (390 °F)	
Vapor pressure:	6.3 hPa / 172 °C (341 °F)	
Density:	0.93 g/cm³ at 25 °C (77 °F)	(DIN 51757)
Water solubility / miscibility:	virtually insoluble	
PH-Value:	approx. 7	
Viscosity (dynamic):	10 mPa.s at 25 °C (77 °F)	(DIN 53019)
Viscosity (kinematic):	approx. 10 mm²/s at 25 °C (77 °F)	(DIN 53019)



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no e	lata available	
Dec	Decomposition begins at > 250 °C (> 482 °F)	
And Depativity		
	no c	

#### **General information:**

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

#### Conditions to avoid

None known

#### Materials to avoid

None known

#### Hazardous decomposition products

If stored and handled properly: none known. Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

#### Further information:

Hazardous polymerization cannot occur.

#### **SECTION 11: Toxicological Information**

#### Information on toxicological effects

#### Acute toxicity

#### Product details:

Route of exposure	Result/Effect	Species/Test system	Source
oral	$LD_{50}$ : > 5000 mg/kg Neither mortality nor clinical signs of toxicity were observed with the given dose.	rat	literature (Polydimethylsiloxane)
dermal	LD <sub>50</sub> : > 2008 mg/kg Neither mortality nor clinical signs of toxicity were observed with the given dose.	rat	literature (Polydimethylsiloxane)

#### Skin corrosion/irritation

#### Product details:

Result/Effect	Species/Test system	Source
not irritating	rabbit	literature
		(Polydimethylsiloxane)

#### Serious eye damage/eye irritation

#### Product details:

Species/Test system	Source	
rabbit	literature	
	(Polydimethylsiloxane)	
		rabbit literature

#### Respiratory or skin sensitization





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#### Product details:

Route of exposure	Result/Effect	Species/Test system	Source
dermal	not sensitizing	guinea-pig; Magnusson-Kligman	literature (Polydimethylsiloxane) OECD 406

#### Germ cell mutagenicity

#### Assessment:

Based on known data a significant mutagenic potential may be excluded.

#### Product details:

Result/Effect	Species/Test system	Source
negative	mutation assay (in vitro) bacterial cells	literature (Polydimethylsiloxane) OECD 471

#### Carcinogenicity

#### Assessment:

Animal tests have not revealed any carcinogenic effects.

#### **Product details:**

Result/Effect	Species/Test system	Source
NOAEL: >= 1000 mg/kg	carcinogenicity study	literature
NOAEL= NOAEL (carcinogenic effects)	rat (F344)	(Polydimethylsiloxane)
	oral(feed)	
	2 a	

#### **Reproductive toxicity**

#### Assessment:

Animal tests have shown no indications of possibility of damage to embryo and impairment of fertility.

#### Product details:

Result/Effect (Examinations of developmental toxicity and teratogenicity)	Species/Test system	Source
NOAEL (developmental): >= 1000 mg/kg NOAEL (maternal): >= 1000 mg/kg Symptoms/Effect: Nothing abnormal detected.	Developmental Toxicity Study rabbit oral (gavage); day 6 - 19 of gestation	literature (Polydimethylsiloxane)

#### Specific target organ toxicity - single exposure

#### Assessment:

For this endpoint no toxicological test data is available for the whole product.

#### Specific target organ toxicity - repeated exposure

#### Assessment:

For this endpoint no toxicological test data is available for the whole product.

#### **Product details:**

Result/Effect	Species/Test system	Source
NOAEL: >= 1000 mg/kg	chronic study	literature
NOAEL = NOAEL (systemic effects)	rat	(Polydimethylsiloxane)
	oral (feed)	
	1 a	
	Follow-up observation	
	period: 1 a	





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#### Aspiration hazard

#### Assessment:

For this endpoint no toxicological test data is available for the whole product.

#### Further toxicological information

No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. No component of this product presents at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Other information: Human patch test: Product displays good compatibility with the skin.

#### SECTION 12: Ecological Effects

#### Toxicity

#### Assessment:

Based on available data no effects on aquatic organisms that are relevant for classification must be expected for the product up to its limits of water solubility. According to current knowledge adverse effects on water purification plants are not expected.

#### **Product details:**

Result/Effect	Species/Test system	Source
> 1000 mg/l (nominal) effect level > maximum achievable concentration	static (water-accommodated fraction) Fish (96 h)	literature
EC <sub>50</sub> : > 0.0001 mg/l (measured) effect level > maximum achievable concentration	static (water-accommodated fraction) Daphnia magna (48 h)	literature
$IC_{50}$ (growth rate): > 100000 mg/l (nominal)	static (water-accommodated fraction) Marine alga (skeleonema costatum) (72 h)	literature
NOEC: > 10000 mg/kg	feeding study rainbow trout (Oncorhynchus mykiss) (28 d)	literature
NOEC (mortality, growth, reproduction): > 500 mg/kg The exposure to treated sediment did not result in effects.	exposure via sediment Daphnia magna (21 d)	literature

#### Persistence and degradability

#### Assessment:

Silicone content: biologically not degradable. Elimination by adsorption to activated sludge.

Polydimethylsiloxanes are degradable to a certain extent in abiotic processes.

#### Bio accumulative potential

#### Assessment:

Polymer component: Bioaccumulation is not expected to occur.

#### Mobility in soil

#### Assessment:

Polymer component: insoluble in water; adsorbs on soil.





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### Other adverse effects

None known

#### **SECTION 13:Disposal considerations**

#### **Product disposal**

#### Recommendation:

Material that cannot be used, reprocessed or recycled should be disposed of in accordance with Federal, State, and local regulations at an approved facility. Depending on the regulations, waste treatment methods may include e.g., landfill or incineration.

#### Packaging disposal

Recommendation:

Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations. Uncleaned packaging should be treated with the same precautions as the material.

#### **SECTION 14:**Transport Information

#### **US DOT & CANADA TDG SURFACE**

Valuation: Not regulated for transport. **Transport by sea IMDG-Code** 

Valuation: Not regulated for transport.

#### Air transport ICAO-TI/IATA-DGR

Valuation: Not regulated for transport.

#### **SECTION 15:Regulatory Information**

#### **U.S. Federal regulations**

#### TSCA inventory status and TSCA information:

This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

#### TSCA 12(b) Export Notification:

This material does not contain reportable amounts of any TSCA 12(b) listed chemicals.

#### CERCLA Regulated Chemicals:

This material does not contain any CERCLA regulated chemicals.

#### SARA 302 Components

This material does not contain any SARA extremely hazardous substances.

#### SARA 311/312 Hazards

This product does not present any SARA 311/312 hazards.

#### SARA 313 Chemicals:



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This material does	not contain any SARA 313 chen	nicals above de minimums levels.
HAPS (Hazardous	•	
•	not contain any hazardous air p	ollutants.
U.S. State regulati		
-	ition 65 Carcinogens:	
-	-	n to the State of California to cause cancer.
	ition 65 Reproductive Toxins:	
	•	n to the State of California to cause reproductive
effects.		
Massachusetts Su	ubstance List:	
This material conta	ins no listed components.	
	-to-Know Hazardous Substand	ce List:
	ins no listed components.	
Pennsylvania Rigl	ht-to-Know Hazardous Substa	nce List:
This material conta	ins no listed components.	
	ional registration status	
	-	ventories, where available, is given below.
South Korea (Rep	ublic of Korea):	-
		d in, or complies with, the substance inventory.
Japan:	<i>,</i> ,	
ENCS (Handbook of	of Existing and New Chemical S	ubstances): This product is listed in, or complies with,
the substance inve	•	, , , , , , , , , , , , , , , , , , , ,
Australia:	-	
AICS (Australian In	ventory of Chemical Substances	s): This product is listed in, or complies with, the
substance inventor	y.	
People's Republic	of China:	
IECSC (Inventory of	of Existing Chemical Substances	in China): This product is listed in, or complies with,
the substance inve	ntory.	
Canada:	-	
DSL (Domestic Sul	ostance List): This product is list	ed in, or complies with, the substance inventory.
Philippines:		
PICCS (Philippine	Inventory of Chemicals and Che	mical Substances): This product is listed in, or
complies with, the	substance inventory.	
United States of A	merica (USA):	
TSCA (Toxic Subst	ance Control Act Chemical Sub	stance Inventory): This product is listed in, or complies
with, the substance	inventory.	
Taiwan (Republic	of China):	
TCSI (Taiwan Cher	mical Substance Inventory): This	s product is listed in, or complies with, the substance
inventory. General	note: Taiwan REACH requires a	a phase 1 registration for TCSI-listed or TCSI-compliar
substances if impor	rts to Taiwan or manufacturing ir	n Taiwan exceed the trigger quantity of 100 kg/a (for
mixtures to be calc	ulated per each ingredient). It is	the duty of the importing/manufacturing legal entity to

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#### take care of this obligation.

#### European Economic Area (EEA):

**REACH** (Regulation (EC) No 1907/2006): General note: the registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported into the EEA by customers or other downstream users must be fulfilled by the latter.

#### **SECTION 16:Other Information**

#### Additional information:

This Safety Data Sheet (SDS) meets the requirements of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200). This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee expressed or implied, is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license under valid patents. This SDS provides selected regulatory information on this product, including its components. This is not intended to include all regulations. It is the responsibility of the user to know and comply with all applicable rules, regulations and laws relating to the product being used.

