

Version 5.1R

Page 1 / 12

Revision Date 09.01.2019

SECTION 1: Identification of the substance/mixture and of the company**Product Identifier**

Product Name: SiSiB® SF0203

Relevant identified uses of the substance or mixture and uses advised against

Relevant applications identified For industrial use

Details of the supplier of the safety 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****GHS Classification**

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Precautionary statements

Prevention: P210 Keep away from heat/sparks/open flames/hot surfaces.
No smoking.
P234 Keep only in original container.
P261 Avoid breathing spray.
P271 Use only outdoors or in a well-ventilated area.

Storage: P403 Store in a well-ventilated place.

Other hazards which do not result in classification

May generate flammable hydrogen gas. Avoid contact with water, alcohols, acidic, basic, or oxidizing materials.

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

This product is a substance.

Chemical nature Silicone
Substance name Methylododecyl, methyl(2-phenylpropyl) siloxane
CAS-No. 68037-76-3

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Methyl styrene	98-83-9	< 10

SECTION 4: First aid measures**Description of first aid measures****General advice**

In the case of accident or if you feel unwell, seek medical advice immediately.

When symptoms persist or in all cases of doubt seek medical advice.

If inhaled

If inhaled, remove to fresh air.

Get medical attention.

In case of skin contact

In case of contact, immediately flush skin with soap and plenty of water.

Remove contaminated clothing and shoes.

Get medical attention.

Wash clothing before reuse.

Thoroughly clean shoes before reuse.

In case of eye contact

Flush eyes with water as a precaution.

Get medical attention if irritation develops and persists.

If swallowed

If swallowed, DO NOT induce vomiting.

Get medical attention.

Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and delayed

None known.

Protection of first-aiders

First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.

Notes to physician

Treat symptomatically and supportively.

SECTION 5: Firefighting measures**Extinguishing media****Suitable extinguishing media**

Water spray, Alcohol-resistant foam, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Dry chemical

Specific hazards during firefighting

Exposure to combustion products may be a hazard to health.

Applying foam will release significant amounts of hydrogen gas that can be trapped under the foam blanket.

Hazardous combustion products

Carbon oxides

Silicon oxides

Formaldehyde

Specific extinguishing methods

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Use water spray to cool unopened containers.

Do not allow extinguishing medium to contact container contents.

Most fire extinguishing media will cause hydrogen evolution, and once the fire is put out, may accumulate in poorly ventilated or confined areas and result in flash fire or explosion if ignited.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Remove undamaged containers from fire area if it is safe to do so.

Evacuate area.

Special protective equipment for firefighters:

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

SECTION 6: Accidental release measures**Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment.

Follow safe handling advice and personal protective equipment recommendations.

Environmental precautions:

Discharge into the environment must be avoided.

Prevent further leakage or spillage if safe to do so.

Prevent spreading over a wide area (e.g. by containment or oil barriers).

Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material.

For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.

Clean up remaining materials from spill with suitable absorbent.

Materials in contact with water, moisture, acids or bases have the potential to generate hydrogen gas.

Recovered material should be stored in a vented container.

Local or national regulations may apply to releases and disposal of this material, as well as those

materials and items employed in the cleanup of releases. You will need to determine which regulations are

applicable.

Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

Recovered material should be stored in a vented container.

The vent must prevent the ingress of water as further reaction with spilled materials can take place which could lead to over-pressurization of the container.

SECTION 7: Handling and storage

Technical measures

See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation

Use only with adequate ventilation.

Advice on safe handling

Avoid inhalation of vapor or mist.

Do not swallow.

Avoid contact with eyes.

Avoid prolonged or repeated contact with skin.

Handle in accordance with good industrial hygiene and safety practice.

Keep away from water.

Protect from moisture.

Take care to prevent spills, waste and minimize release to the environment.

Hygiene measures

Ensure that eye flushing systems and safety showers are located close to the working place.

When using do not eat, drink or smoke.

Wash contaminated clothing before re-use.

These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

For further information regarding the use of silicones / organic oils in consumer aerosol applications, please refer to the guidance document regarding the use of these type of materials in consumer aerosol applications that has been developed by the silicone industry.

Conditions for safe storage

Keep in properly labelled containers.

Store in original container.

Store in a closed container.

Store in accordance with the particular national regulations.

Product may evolve minute quantities of flammable hydrogen gas which can accumulate. Adequately ventilate to maintain vapors well below flammability limits and exposure guidelines.

Do not repackage. Clogged container vents may increase pressure build up.

Materials to avoid

Do not store with the following product types: Strong oxidizing agents

Packaging material

Version 5.1R	Page 5 / 12	Revision Date 09.01.2019
--------------	-------------	--------------------------

Unsuitable material: Do not store in or use containers except the original product package.

SECTION 8: Exposure Controls/Personal Protection

Control parameters

Maximum airborne concentrations at the workplace:

CAS No.	Material	Type	mg/m ³	ppm	Dust fract.	Fibre/m ³
	Aerosol - inhalable fraction		10,0			

-

The aerosol limit specified is a recommendation should aerosol be formed during processing.

Exposure controls

Exposure in the work place limited and controlled

General protection and hygiene measures:

Observe standard industrial hygiene practices for the handling of chemical substances. Do not eat, drink or smoke when handling.

Personal protection equipment:

Respiratory protection

No personal respiratory protective equipment normally required.

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. Suitable respiratory equipment: Filtering half-face mask, according to acknowledged standards such as EN 149.

Recommended Filter type: FFP1 or equivalent filter, according to acknowledged standards such as EN 149

Observe the equipment manufacturer's information and wear time limits for respirators.

Eye protection

Recommendation: protective goggles.

Hand protection

Use of protective gloves is recommended when handling the material.

Recommended glove types: Protective gloves made of nitrile rubber

thickness of the material: > 0,1 mm

Breakthrough time: > 480 min

Recommended glove types: Protective gloves made of butyl rubber

thickness of the material: > 0,3 mm

Breakthrough time: > 480 min

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Note that, due to the numerous external influences (such as temperature), a chemically resistant protective glove in daily use may have a service life that is considerably shorter than the measured break through time.

Exposure to the environment limited and controlled

Prevent material from entering surface waters, drains or sewers and soil.

Version 5.1R

Page 6 / 12

Revision Date 09.01.2019

Further information for system design and engineering measures

Observe information in section 7. Observe national regulatory requirements.

SECTION 9: Physical and Chemical Properties**Information on basic physical and chemical properties**

Physical state	liquid
Color	Colorless to pale yellow
Odor	no data available
Odor Threshold	no data available
pH	no data available
Melting point/ freezing point	no data available
Initial boiling point and boiling range	> 65 °C
Flash point:	113.3 °C
	Method: closed cup
Evaporation rate	no data available
Flammability (solid, gas)	no data available
Flammability (liquids)	no data available
Self-ignition	The substance or mixture is not classified as pyrophoric. The substance or mixture is not classified as self heating.
Upper explosion limit / Upper flammability limit	no data available
Lower explosion limit / Lower flammability limit	no data available
Vapor pressure:	no data available
Relative Vapor Density	no data available
Relative Density	0.912
Water solubility:	no data available
Partition coefficient: n-octanol/water	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity, kinematic	1275 cSt (25 °C)
Explosive properties	not explosive
Oxidizing properties	The substance or mixture is not classified as oxidizing.
Molecular weight	no data available
Particle size	no data available

SECTION 10: Stability And Reactivity**Reactivity**

Version 5.1R

Page 7 / 12

Revision Date 09.01.2019

Contact with water liberates highly flammable gases.

Chemical stability

Stable under normal conditions

Possibility of hazardous reactions

Use at elevated temperatures may form highly hazardous compounds.

Can react with strong oxidizing agents.

Product may evolve flammable hydrogen gas on contact with water, alcohols, acidic or basic materials, many metals or metallic compounds and can form explosive mixtures in air.

Hazardous decomposition products will be formed at elevated temperatures.

Conditions to avoid

Exposure to moisture

Incompatible materials

Oxidizing agents

Hazardous decomposition products

Thermal decomposition: Formaldehyde

SECTION 11: Toxicological Information**Exposure routes**

Inhalation

Skin contact

Ingestion

Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity

LD50 (Rat): > 15,000 mg/kg

Assessment: The substance or mixture has no acute oral toxicity

Remarks: On basis of test data.

Components:**Methyl styrene:**

Acute oral toxicity:

LD50 (Rat): 4,900 mg/kg

Acute inhalation toxicity:

LC50 (Rat): 22.85 mg/l

Exposure time: 6 h

Test atmosphere: vapor

Acute dermal toxicity:

LD50 (Rabbit): > 5,000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Product:

Species: Rabbit

Result: No skin irritation

Remarks: On basis of test data.

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Species: Rabbit

Result: No eye irritation

Remarks: On basis of test data.

Components:

Methyl styrene:

Species: Rabbit

Result: Irritation to eyes, reversing within 7 days

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Chronic toxicity

Germ cell mutagenicity

Not classified based on available information.

Components:

Methyl styrene:

Genotoxicity in vitro:

Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Genotoxicity in vivo:

Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)

Species: Mouse

Application Route: Inhalation

Method: OECD Test Guideline 474

Result: negative

Carcinogenicity

Not classified based on available information.

Components:

Methyl styrene:

Species: Rat

Application Route: inhalation (vapor)

Exposure time: 105 weeks

Method: OECD Test Guideline 451

Result: positive

Remarks: The mechanism or mode of action may not be relevant in humans.

Species: Mouse

Version 5.1R

Page 9 / 12

Revision Date 09.01.2019

Application Route: inhalation (vapor)

Exposure time: 105 weeks

Method: OECD Test Guideline 451

Result: positive

Remarks: The mechanism or mode of action may not be relevant in humans.

Reproductive toxicity

Not classified based on available information.

Components:**Methyl styrene:**

Effects on fertility:

Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test

Species: Rat

Application Route: Ingestion

Method: OECD Test Guideline 422

Result: negative

Effects on foetal development:

Test Type: Embryo-foetal development

Species: Rat

Application Route: inhalation (vapour)

Result: positive

Remarks: Based on data from similar materials

Reproductive toxicity - Assessment:

Some evidence of adverse effects on development, based on animal experiments.

STOT - single exposure

Not classified based on available information.

Components:**Methyl styrene:**

Assessment: May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:**Methyl styrene:**

Species: Rat

NOAEL: 40 mg/kg

LOAEL: 200 mg/kg

Application Route: Ingestion

Exposure time: 43 Days

Method: OECD Test Guideline 422

Species: Rat

NOAEL: 1.45 mg/l

Application Route: inhalation (vapour)

Version 5.1R

Page 10 / 12

Revision Date 09.01.2019

Exposure time: 90 Days

Method: OECD Test Guideline 413

Aspiration toxicity

Not classified based on available information.

SECTION 12: Ecological Effects**Ecotoxicity****Components:****Methyl styrene:**

Toxicity to fish:	LC50 (Danio rerio (zebra fish)): 2.97 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates:	EC50 (Daphnia magna (Water flea)): 1.645 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae:	EC50 (Desmodesmus subspicatus (green algae)): 4.347 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 NOEC (Desmodesmus subspicatus (green algae)): 2.26 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to fish (Chronic toxicity):	NOEC (Danio rerio (zebra fish)): 2.13 mg/l
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	NOEC (Daphnia magna (Water flea)): 0.401 mg/l Exposure time: 21 d Method: OECD Test Guideline 211
Toxicity to microorganisms:	EC50: > 2,000 mg/l Exposure time: 3 h

Persistence and degradability

No data available

Bioaccumulative potential**Components:****Methyl styrene:**

Bioaccumulation:	Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): 15 - 140 Method: OECD Test Guideline 305C
Partition coefficient: n-octanol/ water:	Pow: 3.48

Mobility in soil

No data available

Version 5.1R

Page 11 / 12

Revision Date 09.01.2019

Other adverse effects

No data available

SECTION 13: Disposal considerations**Disposal methods**

Waste from residues:

Dispose of in accordance with local regulations.

Contaminated packaging:

Empty containers should be taken to an approved waste handling site for recycling or disposal.

If not otherwise specified: Dispose of as unused product.

SECTION 14: Transport Information**International Regulations****UNRTDG**

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

Remarks: VENTED PACKAGES ARE FORBIDDEN FOR AIR TRANSPORT.

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations**ADG**

Not regulated as a dangerous good

SECTION 15: Regulatory Information**Safety, health and environmental regulations/legislation specific for the substance or mixture**

Prohibition/Licensing Requirements:

There is no applicable prohibition or notification/licensing requirements, including for carcinogens under Commonwealth, State or Territory legislation.

The components of this product are reported in the following inventories:

NZIoC:

All ingredients listed or exempt.

REACH:

For purchases from Dow Corning EU legal entities, all ingredients are currently pre/registered or exempt under REACH.

Please refer to section 1 for recommended uses. For purchases from non-EU Dow Corning legal entities with the

Version 5.1R	Page 12 / 12	Revision Date 09.01.2019
--------------	--------------	--------------------------

	intention to export into EEA please contact your DC representative/ local office.
TSCA:	All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.
AICS:	All ingredients listed or exempt.
IECSC:	All ingredients listed or exempt.
ENCS/ISHL:	All components are listed on ENCS/ISHL or exempted from inventory listing.
KECI:	All ingredients listed, exempt or notified.
PICCS:	All ingredients listed or exempt.
DSL:	All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).
TCSI:	All ingredients listed or exempt.

SECTION 16: Other Information

Further information

It must be recognized that the physical and chemical properties of any product may not be fully understood and that new, possibly hazardous products may arise from reactions between chemicals. The information given in this data sheet is based on our present knowledge and shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.