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

Product Identifier

Product Name: SiSiB® PC12010-200
Chemical Name: Dimethicone
CAS-No.: 9006-65-9 / 9016-00-6 / 63148-62-9

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

Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008:
Not a hazardous substance or mixture.

Label elements

Labeling according to Regulation (EC) No. 1272/2008:
No labeling according to GHS required.

Other hazards

No data available

SECTION 3: Composition/information on ingredients

Substances

Chemical characteristics Polydimethylsiloxane

Hazardous ingredients

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

Mixtures

Not applicable

SECTION 4: First aid measures

Description of first aid measures

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General advice

In case of accident or if you feel unwell seek medical advice (show label or SDS where possible).

After inhalation

Provide fresh air.

After contact with the skin

Wash with plenty of water or water and soap. In the event of a visible skin change or other complaints, seek medical advice (show label or SDS where possible).

After contact with the eyes

Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.

After swallowing

Give several small portions of water to drink. Do not induce vomiting.

Most important symptoms and effects, both acute and delayed

Any relevant information can be found in other parts of this section.

Indication of any immediate medical attention and special treatment needed

Further toxicology information in section 11 must be observed.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Water mist, extinguishing powder, alcohol-resistant foam, carbon dioxide, sand

Extinguishing media which must not be used for safety reasons:

Water jet

Special hazards arising from the substance or mixture

Risk of hazardous gasses or fumes in the event of fire. Exposure to combustion products may be a health hazard! Hazardous combustion products: carbon oxides, silicon oxides, incompletely burnt hydrocarbons, toxic and very toxic fumes.

Advice for firefighters

Special protective equipment for firefighting:

Use respiratory protection independent of recirculate air. Keep unprotected persons away.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

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.

Environmental precautions:

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

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water/extinguishing water. Dispose of in prescribed marked containers. Inform authorities if substance leaks into surface waters, sewerage or ground.

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.

Reference to other sections

Relevant information in other sections has to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

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

Specific end use(s)

No data available.

SECTION 8: Exposure Controls/Personal Protection

Control parameters

Maximum airborne concentrations at the workplace:

CAS No.	Material	Type	mg/m3	ppm	Dust fact.	Fiber/m3
	Aerosol - inhalable fraction		10,0			

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

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Engineering 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 wears 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.

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

Property:

Value:

Method:

Appearance

Physical state / form:

liquid

Color:

colorless, clear

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Odor

Odor: odorless

Odor limit

Odor limit no data available

PH-Value

PH-Value: approx. 7

Melting point/freezing point

Melting point / melting range: -55 °C

Initial boiling point and boiling range

Boiling point / boiling range: not determinable (EU-GL.A.2)

Flash point

Flash point: > 275 °C (ISO 2592)

Flash point: > 150 °C (EN 22719)

Flash point: 327 °C (JIS K2265-4)

Evaporation rate

Evaporation rate: no data available

Upper/lower flammability or explosive limits

Lower explosion limit (LEL): not applicable

Upper explosion limit (UEL): not applicable

Vapor pressure

Vapor pressure: < 0,1 hPa / 20 °C

Solubility (ies)

Water solubility / miscibility: virtually insoluble

Vapor density

Relative gas/vapor density: no data known

Relative density

Relative density: approx.0, 96 (25 °C) (DIN 51757)
(Water / 4 °C = 1, 00)

Density: approx.0, 96 g/cm³ (25 °C) (DIN 51757)

Partition coefficient: n-octane/water

Partition coefficient: n-octane/water: no data known

Auto-ignition temperature

Ignition temperature: 395 °C (EN 14522)

Decomposition temperature

Thermal decomposition: Decomposition begins at > 250 °C

Viscosity

Viscosity (dynamic): 195 - 205 mPa.s at 25 °C (DIN 53019)

Viscosity (kinematic): approx. 200 mm²/s at 25 °C (DIN 53019)

Molecular mass

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Molecular mass: no data available

Other information

No data available.

SECTION 10: Stability And Reactivity

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.

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 ₅₀ : > 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:

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

Respiratory or skin sensitization

Product details:

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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 NOAEL= NOAEL (carcinogenic effects)	carcinogenicity study rat (F344) oral(feed) 2 a	literature (Polydimethylsiloxane)

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 NOAEL = NOAEL (systemic effects)	chronic study rat oral (feed) 1 a Follow-up observation	literature (Polydimethylsiloxane)

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	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

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 ₅₀ : > 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

Results of PBT and vPvB assessment

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This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

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.

Waste Disposal Legislation Ref.No.(EC)

It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

SECTION 14: Transport Information

Road ADR:

Valuation: Not regulated for transport.

Railway RID:

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.

Environmental hazards

Hazardous to the environment: no

Special precautions for user

Relevant information in other sections has to be considered.

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

Bulk transport in tankers is not intended.

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SECTION 15:Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

National and local regulations must be observed.

Relevant regulations:

SI 2002/1689: CHIP Regulations 2002

SI 2002/2677: COSHH Regulations 2002

SI 1999/3242: Management of Health & Safety at Work Regulations 1999

Health & Safety at Work Act 1974

SI 1993/1643: Environmental Protection Act 1993 & Subsidiary Regulations.

Other national and local measures relating to the workplace, pollution control, environmental protection and waste control.

Other specifications, restrictions and prohibitions:

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable.

Chemical safety assessment

A chemical safety assessment according to (EC) regulation 1907/2006 (REACH) has not been carried out for this product.

Details of international registration status

Relevant information about individual substance inventories, where available, is given below.

South Korea (Republic of Korea):

ECL (Existing Chemicals List): This product is listed in, or complies with, the substance inventory.

Japan:

ENCS (Handbook of Existing and New Chemical Substances): This product is listed in, or complies with, the substance inventory.

Australia:

AICS (Australian Inventory of Chemical Substances): This product is listed in, or complies with, the substance inventory.

People's Republic of China:

IECSC (Inventory of Existing Chemical Substances in China): This product is listed in, or complies with, the substance inventory.

Canada:

DSL (Domestic Substance List): This product is listed in, or complies with, the substance inventory.

Philippines:

PICCS (Philippine Inventory of Chemicals and Chemical Substances): This product is listed in, or complies with, the substance inventory.

United States of America (USA):

TSCA (Toxic Substance Control Act Chemical Substance Inventory): This product is listed in, or complies with, the substance inventory.

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Taiwan (Republic of China):

TCSI (Taiwan Chemical Substance Inventory): This product is listed in, or complies with, the substance inventory. General note: Taiwan REACH requires a phase 1 registration for TCSI-listed or TCSI-compliant substances if imports to Taiwan or manufacturing in Taiwan exceed the trigger quantity of 100 kg/a (for mixtures to be calculated per each ingredient). It is the duty of the importing/manufacturing legal entity to 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

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.