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

Product Name: SiSiB® FS2110

CAS-No.: 68611-44-9

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**

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008[CLP] on classification, labeling and packaging of substances and mixtures.

Label

No label information available. The product is not classified as hazardous under Regulation (EC) No 1272/2008[CLP/GHS]

Route of entry or possible contact

Inhalation. Eyes contact. Skin contact.

Acute health effects

Eye contact: No acute toxic effects are expected. Slight irritation by mechanical effects is possible.

Skin contact: No acute toxic effects are expected. Temporary discomfort like feeling of dryness.

Inhalation: No acute toxic effects are expected. May cause physical discomfort to the respiratory tract.

Not mutagenic in different in-vitro and in-vivo test systems. A long term exposure exceeding TLV can lead to damaging effect as a result of mechanical overloading of the respiratory tract. Chronic respiratory exposure: Changes in respiratory organs observed in animal experiments (inflammatory processes) were reversible; no indication of silicosis. Animal tests have shown no indication to carcinogenic or to reproduction effects.

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

CAS-No. 7631-86-9

Chemical characteristics Pyrogenic micro-dispersed silica surface modified by organosilicon,

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Appearance synthetic X-ray amorphous silicon dioxide (SiO₂)
White solid – powder, odorless

Molecular formula SiO₂

Silica Content \geq 99.8%

This substance is also known as Silica, amorphous, fumed, crystalline free, CAS No. 112945-52-5.

SECTION 4: First aid measures

In all cases of doubt, or when symptoms persist, seek medical attention.

If inhaled

If inhaled, remove to fresh air. Get medical attention if symptoms occur. Show label if possible.

In case of skin contact

Wash skin with plenty of water or with water and soap.

In case of eye contact

Flush eyes with plenty of water immediately, get medical attention if symptoms occurring.

If swallowed

Drink plenty of water. Get medical attention if symptoms occur. Show label if possible.

SECTION 5: Firefighting measures**Combustibility**

Noncombustible material, but the package of the product may cause combustion risk

Fire and explosion hazards

The material is noncombustible substance, while electrostatic charging is possible in using. Ensure all parts of equipment are well earthed. Use inert gas when working with combustible and explosive liquids.

Extinguishing agent

No limitations of extinguishing agents are given. Use extinguishing measures appropriate to the source of fire.

Advice for fire-fighters

Wear full protective clothing including a self-contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures**Precautions**

Avoid dust formation. Do not breathe dust. Cover any spilled material in accordance with regulations to prevent dispersal by wind.

Environmental precautions

Avoid dust formation and release directly. Deal with the dust in accordance with the local related regulatory.

Methods for cleaning up

Clean up promptly by vacuum and fill into containers.

SECTION 7: Handling and storage**Precautions for safe handling**

Do not leave container open. Sufficient ventilation must be guaranteed for refilling, transfer, or open use. Avoid the formation of dust. Avoid contacting with the skin and the eyes.

Precautions for storage

Keep container dry and tightly closed. Avoid dust deposit. Electrostatic discharge possible during transport and processing. Take precautionary measures against electrostatic charging.

Specific end uses

Apart from the uses mentioned in section 1 (use of the product), it may be used in some other field as an additives.

SECTION 8: Exposure Controls/Personal Protection**Occupational exposure limit values**

China MAC(mg/m³) 2mg/m³

The USATVL-TWA 10mg/m³

The USA TLV-STEL 3mg/m³

Exposure controls

Use only with adequate general or local exhaust ventilation to maintain airborne concentration below TLV.

Respiratory protection

A NIOSH approved particulate respirator with a P95 or higher rating.

Eye protection

Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).

Skin protection

Avoid to contact with skin directly. Wear antistatic clothes and boot. Handle with gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Barrier cream may be used to prevent dryness of skin.

Environmental exposure controls

Do not allow material to be released to the environment without the proper governmental permits.

Industry hygiene

General industrial hygiene practice.

SECTION 9: Physical and Chemical Properties

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Information on basic physical and chemical properties

Melting point (°C)	~1700
Boiling point (°C)	~2300
Flash Point	No data available
Flammability	noncombustible
Density(g/cm ³ (20°C))	2.2
Tamped density(g/l)	30~60
Appearance	White solid - powder, odorless
pH-Value	3.7-4.5
Water solubility / miscibility	Virtually insoluble
Enthalpy (kJ/mol)	no data available
Decomposition temperature (°C)	Non decomposable
Explosive properties	no data available
Electrical conductivity	Non conductive

SECTION 10: Stability And Reactivity**Stability**

Stable at room temperature and recommended storage conditions

Reactivity

Soluble in strong alkali. Strong reaction with hydrofluoric acid (HF).

Conditions to avoid

Avoid moisture.

Incompatible materials

Keep away from hydrofluoric acid (HF).

Hazardous decomposition products

Non decomposition products released in fire conditions

SECTION 11: Toxicological Information**Acute toxicity**

LD50 Oral: > 5000mg/kg (rat) by inhalation: > 0.477mg/l/4h (rat)

LC50 None dead rate at technical max. concentration (rabbit)

Mutagenicity

no data available

Teratogenicity

no data available

Irritability

Experience with rabbit: Not irritating to eyes and skin.

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Experience with man: By prolonged contact with the product no damage to health was observed.

Repeated exposure may cause skin drying and cracking.

Carcinogenicity

Not classified

Chronic toxicity

Not mutagenic in different in-vitro and in-vivo test systems. A long term exposure exceeding TLV can lead to damaging effect as a result of mechanical overloading of the respiratory tract. Chronic respiratory exposure: Changes in respiratory organs observed in animal experiments (inflammatory processes) were reversible; no indication of silicosis. Animal tests have shown no indication to carcinogenic or to reproduction effects.

SECTION 12: Ecological Effects**General notification**

Not applicable to Biodegradation No harmful effects to environment. Can be removed mechanically from waste water.

Toxicity

Acute toxicity to fish: no data available

Acute toxicity to daphnia: no data available

Acute toxicity to algae: no data available

Acute toxicity to bacteria: no data available

Persistence and degradability

No data available

Bio accumulative potential

No data available

Mobility in soil

No data available

Result of PBT and vPvB assessment

No data available

Other adverse effects

No data available

SECTION 13: Disposal considerations**Waste disposal****Recommendation**

Waste material can be stored together and disposed in according with local/state regulations by a licensed company.

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SECTION 14:Transport Information

This product is not regulated as a hazardous material or dangerous goods for Land/ Sea/ Air transportation.

SECTION 15:Regulatory Information

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

EU regulation

Authorizations: No information available.

Restrictions on use: No information available.

EINECS: This substance is not listed in the inventory.

DSD (67/548/EEC): This substance is not listed in the Annex I.

Other chemical regulation

TSCA- United States Toxic Substances Control Act Section 8(b) Inventory Complies

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List Complies

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances Complies

IECSC - China Inventory of Existing Chemical Substances Complies

KECL - Korean Existing and Evaluated Chemical Substances Complies

PICCS - Philippines Inventory of Chemicals and Chemical Substances Complies

AICS -Australian Inventory of Chemical Substances Complies

NZIOC - New Zealand Inventory of Chemicals Complies

TCSI - Taiwan Chemical Substance Inventory Complies

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.