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

Product Name: SiSiB® FS5115

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**

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

Label elements

Not applicable

Other hazards

Not a PBT, vPvB substance as per the criteria of the REACH Regulation.

SECTION 3: Composition/information on ingredients**Chemical name:**

Silane, dichlorodimethyl-, reaction products with silica

Substances

Chemical name	CAS-No.	M-Factor:	Notes
Silane, dichlorodimethyl-, reaction products with silica	68611-44-9	No data available.	#

This substance has workplace exposure limit(s).

This substance is listed as SVHC

SECTION 4: First aid measures**Description of first aid measures****If inhaled**

In case product dust is released: Possible discomfort: cough, sneezing Move victims into fresh air.

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In case of skin contact

Wash off with plenty of water and soap.

In case of eye contact

Possible discomfort is due to foreign substance effect. Rinse thoroughly with plenty of water keeping eyelid open. In case of persistent discomfort: Consult an ophthalmologist.

If swallowed

Clean mouth with water and drink afterwards plenty of water. After absorbing large amounts of substance / In case of discomfort: Supply with medical care.

Most important symptoms and effects, both acute and delayed

no data available

Indication of any immediate medical attention and special treatment needed

Hazards: No data available.

Treatment: No hazards which require special first aid measures.

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

Water spray, foam, CO₂, dry powder. Adapt fire-extinguishing measures to surroundings

Unsuitable extinguishing media

Do not use full-force water jet in order to avoid dispersal and spread of the fire.

Special hazards arising from the substance or mixture

May be released in case of fire: carbon monoxide, carbon dioxide, organic products of decomposition.

Advice for firefighters**Special fire fighting procedures:**

Water used to extinguish fire should not enter drainage systems, soil or stretches of water. Ensure there are sufficient retaining facilities for water used to extinguish fire. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for fire-fighters:

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

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

Use personal protective equipment.

For non-emergency personnel:

Avoid dust formation.

For emergency responders:

No data available.

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Environmental precautions:

Do not allow entrance in sewage water, soil stretches of water, groundwater, drainage systems.

Methods and materials for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal.

Reference to other sections

Wear personal protective equipment; see section 8. Disposal considerations; see section 13.

SECTION 7: Handling and storage

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used. If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used. If necessary: Local ventilation.

Conditions for safe storage, including any incompatibilities

Keep in a dry place. Take precautionary measures against static discharges.

Specific end use(s)

Applications; see Section 1. No further information available

SECTION 8: Exposure Controls/Personal Protection

Control parameters

Components with workplace control parameters

Chemical name	Type	Exposure Limit Values	Source
Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9) - Inhalable dust.	TWA	6 mg/m ³	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9) - Respirable dust.	TWA	2.4 mg/m ³	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)

Exposure controls

Appropriate engineering controls

Ensure suitable suction/aeration at the work place and with operational machinery. Local ventilation if necessary. see also section 7.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields If dust occurs: basket-shaped glasses

Hand protection

Additional Information: Wear protective gloves made of the following materials: material, rubber, leather.

Additional Information: The material thickness and rupture time data do not apply to non-solute solids / dusts.

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Skin and Body protection

No special protective equipment required.

Respiratory protection

No special protective equipment required. If dust occurs: Dust mask with P2 particle filter

Hygiene measures

When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work. To ensure ideal skin protection: use super fatted soaps and skin cream for skin care. Wash contaminated clothing before reuse.

Control of environmental exposure

No data available.

SECTION 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Form: solid powder
Color	white
Odor	odorless
Odor Threshold	no data available
pH	3.6 - 5.5 (40 g/l, 20 °C) 1: 1 in suspension
Melting point/freezing point	not applicable Decomposition
Initial boiling point and boiling range	not applicable Decomposition
Flash point:	no data available
Evaporation rate	no data available
Flammability (solid, gas)	not determined
Upper/lower flammability or explosive limits	no data available
Vapor pressure:	no data available
Vapor density:	no data available
Density	approx. 2.2 g/cm ³ (20 °C)
Relative density	No data available.
Solubility in Water	> 1 mg/l
Solubility (other)	No data available.
Partition coefficient: n-octanol/water	no data available
Self-Ignition Temperature	The substance or mixture is not classified as self heating.
Auto-ignition temperature	no data available
Decomposition temperature	> 300 °C
Kinematic viscosity	not applicable solid
Dynamic viscosity	not applicable solid
Other safety information	
Explosive properties	not applicable

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Oxidizing properties	not determined.
Minimum ignition energy	> 10 kJ
Minimum ignition temperature	> 600 °C (VDI 2263)
Dust explosion properties	not dust explosive

SECTION 10: Stability And Reactivity

Reactivity

No dangerous reaction known under conditions of normal use.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

No hazardous reactions are known if properly handled and stored.

Conditions to avoid

Hydrophobic properties disappear at temperatures > 300°C

Incompatible materials

None known.

Hazardous decomposition products

Carbon Monoxide. Carbon Dioxide. organic products of decomposition Stable under normal conditions.

Product will not undergo hazardous polymerization.

SECTION 11: Toxicological Information

General information:

Silicosis or other product specific illnesses of the respiratory tract were not observed in association with the product.

Information on likely routes of exposure

Inhalation:

No data available.

Skin Contact:

No data available.

Eye contact:

No data available.

Ingestion:

No data available.

Information on toxicological effects

Acute toxicity

Oral

Product:

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LD 50 (Rat): > 5,000 mg/kg (analogous OECD method) Based on available data, the classification criteria are not met.

Components:

Silane, dichlorodimethyl-, reaction products with silica

LD 50 (Rat): > 5,000 mg/kg comparable product

Dermal**Product:**

No data available.

Components:

Silane, dichlorodimethyl-, reaction products with silica

No data available.

Inhalation**Product:**

No data available.

Components:

Silane, dichlorodimethyl-, reaction products with silica

LC0 (Rat, 4 h) 0.477 mg/l (maximum concentration attainable in experiments), comparable product

No data available., Dusts, mists and fumes

No data available., Vapor

Repeated dose toxicity**Product:**

No data available.

Components:

Silane, dichlorodimethyl-, reaction products with silica

No data available.

Skin Corrosion/Irritation:

Not irritating

Product:

analogous OECD method (Rabbit): Not irritating Based on available data, the classification criteria are not met.

Components:

Silane, dichlorodimethyl-, reaction products with silica

analogous OECD method (Rabbit): Not irritating comparable product

Serious Eye Damage/Eye Irritation:

Not irritating

Product:

analogous OECD method (Rabbit): Not irritating Based on available data, the classification criteria are not met.

Components:

Silane, dichlorodimethyl-, reaction products with silica

analogous OECD method (Rabbit): Not irritating comparable product

Respiratory or Skin Sensitization:**Product:**

Not known.

Components:

Silane, dichlorodimethyl-, reaction products with silica

No data available.

Germ Cell Mutagenicity**In vitro****Product:**

No data available.

Components:

Silane, dichlorodimethyl-, reaction products with silica

No data available.

In vivo**Product:**

No data available.

Components:

Silane, dichlorodimethyl-, reaction products with silica

No data available.

Carcinogenicity**Product:**

No evidence that cancer may be caused.

Components:

Silane, dichlorodimethyl-, reaction products with silica

No evidence that cancer may be caused.

Reproductive toxicity**Product:**

no evidence of reproductiontoxic properties

Components:

Silane, dichlorodimethyl-, reaction products with silica

no evidence of reproductiontoxic properties

Specific Target Organ Toxicity - Single Exposure**Product:**

no evidence for hazardous properties

Components:

Silane, dichlorodimethyl-, reaction products with silica

no evidence for hazardous properties

Specific Target Organ Toxicity - Repeated Exposure**Product:**

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no evidence for hazardous properties

Components:

Silane, dichlorodimethyl-, reaction products with silica

no evidence for hazardous properties

Aspiration Hazard**Product:**

Not classified

Components:

Silane, dichlorodimethyl-, reaction products with silica

Not applicable

Other adverse effects:

An Expert Judgment stated that no classification is necessary based on present knowledge. No toxicological tests are available on the product.

SECTION 12: Ecological Effects**Toxicity****Acute toxicity****Fish****Product:**

LC 50 ((Brachydanio rerio), 96 h): > 10,000 mg/l (OECD 203) The reported toxic effects relate to the nominal concentration.

Components

Silane, dichlorodimethyl-, reaction products with silica

LC 50 ((Brachydanio rerio), 96 h): > 10,000 mg/l (OECD 203) The reported toxic effects relate to the nominal concentration.

Aquatic Invertebrates**Product:**

EC 50 (Daphnia magna, 24 h): > 10,000 mg/l (OECD 202) The reported toxic effects relate to the nominal concentration.

Components

Silane, dichlorodimethyl-, reaction products with silica

EC 50 (Daphnia magna, 24 h): > 10,000 mg/l (OECD 202) The reported toxic effects relate to the nominal concentration.

Toxicity to Aquatic Plants**Product:**

No data available.

Components

Silane, dichlorodimethyl-, reaction products with silica

No data available.

Toxicity to microorganisms**Product:**

No data available.

Components

Silane, dichlorodimethyl-, reaction products with silica

No data available.

Chronic Toxicity**Fish****Product:**

No data available.

Components

Silane, dichlorodimethyl-, reaction products with silica

No data available.

Aquatic Invertebrates**Product:**

No data available.

Components

Silane, dichlorodimethyl-, reaction products with silica

No data available.

Toxicity to Aquatic Plants**Product:**

No data available.

Components

Silane, dichlorodimethyl-, reaction products with silica

No data available.

Persistence and degradability**Biodegradation****Product:**

The methods designed to assess persistence and biodegradability are not applicable to this product, in analogy to inorganic substances.

BOD/COD Ratio**Product**

No data available.

Components

Silane, dichlorodimethyl-, reaction products with silica

No data available.

Bioaccumulative potential

Product: Not to be expected.

Mobility in soil

No remarkable mobility in soil is to be expected.

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Results of PBT and vPvB assessment

Not a PBT, vPvB substance as per the criteria of the REACH Regulation.

Silane, dichlorodimethyl-, reaction products with silica

Non-classified vPvB substance Non-classified PBT substance

Other adverse effects

An Expert Judgment stated that no classification is necessary based on present knowledge.

Additional Information

No ecotoxicological data is available for this product.

SECTION 13: Disposal considerations

Waste treatment methods

General information:

No data available.

Disposal methods:

No waste key number as per the European Waste Types List can be assigned to this product, since such classification is based on the (as yet undetermined) use to which the product is put by the consumer. Can be disposed of with domestic refuse in accordance with the necessary technical regulations following consultation with waste disposal expert(s) and the responsible authorities. The waste key number must be determined as per the European Waste Types List (decision on EU Waste Types List 2000/532/EC) in cooperation with the disposal firm / producing firm / official authority.

Contaminated Packaging:

Offer rinsed packaging material to local recycling facilities. Other countries: observe the national regulations.

SECTION 14: Transport Information

UN number

ADR/RID: -

IMDG: -

IATA: -

UN proper shipping name

ADR/RID:

Not dangerous goods

IMDG:

Not dangerous goods

IATA:

Not dangerous goods

Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

Packaging group

ADR/RID: -

IMDG: -

IATA: -

Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

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Special precautions for user

No data available

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

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I: Not applicable

Chemical safety assessment

No exposure or risk assessment is required for this product since it is not classified for health or environmental risks.

International regulations**Montreal protocol**

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

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.