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

Product Name: SiSiB® WR5051

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**

Skin irritation Category 2 H315

For the full text of the H-Statements mentioned in this Section, see Section 16.

Label elements**Labelling according to Regulation (EC) No 1272/2008**

Hazard pictograms

Signal word:

WARNING

Hazard statements

H315 Causes skin irritation.

Precautionary statements

P280 Wear protective gloves.

P262 Do not get in eyes, on skin, or on clothing.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P302 + P350 If on skin: Wash with plenty of soap and water.

Other hazards

None

SECTION 3: Composition/information on ingredients

Chemical nature: Silicone compound

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Mixtures

This product is a mixture.

CASRN / EC-No. /	Concentration	Component	Classification: REGULATION (EC) No 1272/2008
CAS No.: 2943-75-1 EC-No.: 220-941-2	>=25 - <50%	Triethoxy(octyl)silane	Skin Irrit. - 2 - H315
CAS No.: 7631-86-9 EC No.: 231-545-4	>=50 - <75%	Silicon dioxide	None known

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures**General advice**

Remove contaminated clothing.

Description of first aid measures**Inhalation:**

Ensure supply of fresh air.

Skin Contact:

In case of contact with skin wash off with soap and water. Consult a doctor if skin irritation persists.

Eye contact:

In case of contact with eyes rinse thoroughly with plenty of water. If symptoms persist, seek medical advice.

Ingestion:

In the event of symptoms seek medical advice.

Most important symptoms and effects, both acute and delayed:

No information is on file to date regarding acute and/or delayed post-exposure symptoms and effects.

Indication of any immediate medical attention and special treatment needed

Hazards: No data available.

Treatment: Treat symptomatically.

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

Foam, carbon dioxide, dry powder, water spray.

Unsuitable extinguishing media

Full water jet

Special hazards arising from the substance or mixture

In the event of fire the following can be released: - Carbon monoxide, carbon dioxide, silicon dioxide

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Advice for firefighters**Fire Fighting Procedures:**

Keep away from sources of ignition - no smoking. Take action to prevent static discharges.

Special protective equipment for firefighters:

Use self-contained breathing apparatus and wear protective suit

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

Use personal protective equipment. Avoid dust formation.

For non-emergency personnel:

No data available.

For emergency responders:

No data available.

Environmental precautions:

Do not allow to enter drains or waterways Do not discharge into the subsoil/soil.

Methods and materials for containment and cleaning up

Pick up mechanically Dispose of absorbed material in accordance with the regulations.

Reference to other sections

For further information on exposure monitoring and disposal see sections 8 and 13.

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

Avoid contact with skin. Avoid the formation and deposition of dust. Provide good ventilation of working area (local exhaust ventilation if necessary).

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a cool, well-ventilated place.

Specific end use(s)

No further recommendations.

SECTION 8: Exposure Controls/Personal Protection**Control parameters**

Occupational Exposure Limits

Chemical name	Type	Exposure Limit Values	Source
Silicon dioxide, chemically prepared - Inhalable dust.	TWA	6 mg/m ³	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
Silicon dioxide,	TWA	2.4 mg/m ³	UK. EH40 Workplace

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chemically prepared - Respirable dust.		Exposure Limits (WELs) (12 2011)
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DNEL-Values

Remarks: No DNEL/DMEL values on file.

PNEC-Values

Remarks: No PNEC values on file.

Exposure controls

Appropriate Engineering Controls: No data available.

Individual protection measures, such as personal protective equipment

Eye/face protection: goggles with side pieces

Hand Protection: Additional Information: Rubber gloves

Skin and Body Protection: light protective clothing

Respiratory Protection: in case of formation of vapors/dusts: Short term: filter apparatus, Filter P2

Hygiene measures: Remove soiled or soaked clothing immediately. Keep away from foodstuffs and beverages. Wash hands before breaks and immediately after handling the product.

Environmental Controls: The environmental regulations on the control and monitoring of environmental exposures are to be observed.

SECTION 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state:	solid
Form:	powder
Color:	white
Odor:	slight, typical
Odor Threshold:	not measured
pH:	not determined
Melting Point:	not measured
Boiling Point:	>190°C (>374°F) 1013hpa
Flash Point:	>65°C
Evaporation Rate:	not measured
Flammability (solid, gas):	no data available
Flammability Limit - Upper (%):	not measured
Flammability Limit - Lower (%):	not measured
Vapor pressure:	not measured
Vapor density (air=1):	not measured
Density:	0.5-0.65g/ cm ³ (25°C) (77°F)
Relative density:	no data available.

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Solubility in Water:	insoluble
Solubility (other):	not measured
Partition coefficient (n-octanol/water):	not measured
Self-Ignition Temperature:	not measured
Decomposition Temperature:	not measured
Kinematic viscosity:	no data available.
Dynamic viscosity:	not applicable
Bulk density:	not measured
Explosive properties:	not measured
Oxidizing properties:	not measured
Minimum ignition energy:	not measured
Minimum ignition temperature:	not measured
Metal Corrosion:	not measured

SECTION 10: Stability And Reactivity**Reactivity**

See section "Possibility of hazardous reactions"

Chemical stability

The product is stable under normal conditions.

Possibility of hazardous reactions

Unknown

Conditions to avoid

Unknown

Incompatible materials

Unknown

Hazardous decomposition products

None with proper storage and handling.

SECTION 11: Toxicological Information

Components: Triethoxyoctyl-Silane

Information on toxicological effects**Acute toxicity**

LD50 Oral - Rat - male and female - \geq 5,110 mg/kg

(OECD Test Guideline 401)

LC50 Inhalation - Rat - male and female - 4 h - $>$ 22 ppm

(OECD Test Guideline 403)

LD50 Dermal - Rabbit - male - 6,730 mg/kg

(OECD Test Guideline 402)

LD50 Dermal - Rabbit - female - > 8,000 mg/kg

(OECD Test Guideline 402)

Skin corrosion/irritation

Skin - Rabbit

Result: Irritating to skin.

(OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes - Rabbit

Result: No eye irritation

(OECD Test Guideline 405)

Respiratory or skin sensitization

Maximization Test - Guinea pig

Result: Not a skin sensitizer.

(OECD Test Guideline 406)

Germ cell mutagenicity

reverse mutation assay

Salmonella typhimurium

Result: negative

Chromosome aberration test in vitro

Chinese hamster ovary cells

Result: negative

In vitro mammalian cell gene mutation test

mouse lymphoma cells

Result: negative

Carcinogenicity

No data available

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

Repeated dose toxicity

Rat - male and female - NOAEL : 300 mg/kg - OECD Test Guideline 422

RTECS: VV6695500

Contact with eyes can cause: Redness, Blurred vision, Provokes tears, Prolonged or repeated contact with skin may cause: defatting, Dermatitis, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Components

Silicon dioxide, chemically prepared

Information on toxicological effects**Acute toxicity**

LD50 Oral - Rat - 3,160 mg/kg

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

Rat

Unscheduled DNA synthesis

Carcinogenicity

Carcinogenicity - Rat - Inhalation

Tumorigenic: Carcinogenic by RTECS criteria. Lungs, Thorax, or Respiration: Tumors.

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS: VV7310000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological Effects

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Toxicity

Acute toxicity

Components

Silicon dioxide, chemically prepared No data available.

Triethoxyoctyl-Silane, Silane,triethoxyoctyl- No data available.

LD50 Oral - Rat - male and female - \geq 10,220 mg/kg

(OECD Test Guideline 401)

LC50 Inhalation - Rat - male and female - 4 h - $>$ 44 ppm

(OECD Test Guideline 403)

LD50 Dermal - Rabbit - male - 13,460 mg/kg

(OECD Test Guideline 402)

LD50 Dermal - Rabbit - female - $>$ 16,000 mg/kg

(OECD Test Guideline 402)

Aquatic Invertebrates

Product: No data available.

Components

Silicon dioxide, chemically prepared No data available.

Triethoxyoctyl-Silane, Silane,triethoxyoctyl- No data available.

Toxicity to Aquatic Plants

Product: No data available.

Components

Silicon dioxide, chemically prepared No data available.

Triethoxyoctyl-Silane, Silane,triethoxyoctyl- No data available.

Toxicity to microorganisms

Product: No data available.

Components

Silicon dioxide, chemically prepared No data available.

Triethoxyoctyl-Silane, Silane,triethoxyoctyl- No data available.

Chronic Toxicity

Fish

Product: No data available.

Components

Silicon dioxide, chemically prepared No data available.

Triethoxyoctyl-Silane, Silane,triethoxyoctyl- No data available.

Aquatic Invertebrates

Product: No data available.

Components

Silicon dioxide, chemically prepared No data available.

Triethoxyoctyl-Silane, Silane,triethoxyoctyl- No data available.

Toxicity to Aquatic Plants

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Product:	No data available.
Components	
Silicon dioxide, chemically prepared	No data available.
Triethoxyoctyl-Silane, Silane,triethoxyoctyl-	No data available.
Persistence and Degradability	
Biodegradation	
Product:	No data available.
BOD/COD Ratio	
Product:	No data available.
Components	
Silicon dioxide, chemically prepared	No data available.
Triethoxyoctyl-Silane, Silane,triethoxyoctyl-	No data available
Bioaccumulative potential	
Product:	No data available.
Mobility in soil:	No data available.
Results of PBT and vPvB assessment:	No data available.
Silicon dioxide, chemically prepared	Non-classified vPvB substance Non-classified PBT substance
Triethoxyoctyl- Silane, Silane,triethoxyoctyl-	Non-classified vPvB substance Non-classified PBT substance

Other adverse effects:

Do not allow to enter soil, waterways or waste water canal. The product is classified as slightly hazardous to waters (according to the German Regulation on the Classification of Substances Hazardous to Waters (WwSV)).

SECTION 13: Disposal considerations

Waste treatment methods

General information: No data available.

Disposal methods: In accordance with local authority regulations, take to special waste incineration plant

Contaminated Packaging: If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.

SECTION 14: Transport Information

UN number

Not regulated as a dangerous good

UN proper shipping name

Not regulated as a dangerous good

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Transport hazard class(es)

Not regulated as a dangerous good

Packing group

Not regulated as a dangerous good

Environmental hazards

Not regulated as a dangerous good

Special precautions for user

Not regulated as a dangerous good

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

Not applicable for product as supplied.

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 chemical safety assessment was carried out for this product.

SECTION 16:Other Information**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008**

Skin Irrit. - 2

H315

Calculation method

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.