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

### Product Identifier

Product Name: SiSiB® FT0050

Chemical Name: Fumed Titanium Dioxide

### 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

### Emergency overview

Form: white powder.

Dour: odourless.

No physical and chemical hazards.

Special note to doctors: None.

### GHS category

Products that are not classified as having GHS specific hazards.

### Health hazard

No health hazards.

### Environmental hazards

No environmental hazards.

### Label element

The substance or product does not require a hazard warning label.

## SECTION 3: Composition/information on ingredients

### Main ingredients

Titanium dioxide

### Ingredient notes

Non-toxic, no harmful ingredients.

CAS number

13463-67-7

## SECTION 4: First aid measures

### Description of first aid measures

#### General advice

In case of accident or discomfort, seek medical advice.

#### If inhaled

Stay away from the scene and try to give fresh air.

#### In case of skin contact

Wash thoroughly with plenty of water or soapy water. Seek medical attention if visible bruising or other discomfort occurs.

#### In case of eye contact

Rinse immediately with plenty of water. If you continue to feel tingling. Seek medical attention.

#### If swallowed

Wash your mouth with water and then drink a lot of water. In case of excessive absorption or discomfort: provide medical assistance.

#### Tips for First Aiders

Wear dust masks and work clothes to prevent dust when entering the accident site.

## SECTION 5: Firefighting measures

### Combustibility

Does not burn.

### Type of extinguishing agent

Extinguish the fire with measures applicable to the fire source. Waterbase, foam, carbon dioxide, dry powder.

### Not applicable for fire extinguishing agent type

Do not use a solid water stream, Water used to extinguish the fire shall not enter the drain, oil, or water line.

### Protective measures

In case of fire, wear fire mask and respirator.

### Particularly dangerous

Not yet found

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Wear dust masks or dust masks and work clothes to prevent dust during leakage treatment; designate a warning area to evacuate unrelated personnel; Dust is collected by means of cleaning and dust collection and sealed for storage, and the residual powder can be washed with clean water.

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**Environmental precautions:**

Sweep up or vacuum up spillage and collect in suitable container for disposal as solid waste to prevent dust.

**Cleaning/removal method**

Wet the dust and put it into a container to be treated as solid waste.

**SECTION 7: Handling and storage**

**Safe Handling**

Precautions for safe handling: sealed storage, try to take suction operation to prevent dust during use, and pay attention to ventilation in the use place, direct operators and other workers in the same space should wear dust masks; Regular dust removal shall be paid attention in the storage and operation sites. Hygiene requirements and recommendations: prohibit eating, drinking and smoking in the workplace, wash hands after contact, and use skincare oil to protect the skin; Remove contaminated clothing and protective equipment before entering the dining area.

**Storage precautions**

Safe storage conditions: Keep in a dry place. Take precautions to prevent electrostatic discharge. When the production system must be repaired (for example, welding work), it must be confirmed that there is no product in the repaired area.

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

**Occupational exposure limit**

China PC-TWA (mg/m<sup>3</sup>):8mg/m<sup>3</sup>

**Biological limits**

Does not contain substances with biological limits (China)

**Monitoring methods**

GBZ 159 Sampling Specifications for Monitoring of Hazardous Substances in the Air of Workplace

GBZ 160 Determination of Toxic Substances in the Air of the Workplace

**Engineering control**

Use an exhaust system to keep airborne concentrations below occupational exposure limits.

Use in closed systems as much as possible.

The site is equipped with eyewash and safety shower facilities.

**Respiratory protection**

Wear a dust mask and use a respirator approved by the National Institute for Occupational Safety and Health in the event of dust formation.

**Eye protection**

Protective glasses.

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**Body protection**

Preventive protection. No special protective equipment is required.

**Hand protection**

Rubber gloves.

**SECTION 9: Physical and Chemical Properties**

**Information on basic physical and chemical properties**

Physical state	Solid
Form	Powder
Color	White
Odour	Odourless
Melting point(°C)	Approx.1850 °C
Boiling Point/Boiling	
Range (°C)	Not applicable
Density	Approx.4.1g/cm <sup>3</sup> (20°C)
Water solubility	Insoluble
pH value	3.4-4.5 (4% suspension)
Thermal decomposition	
temperature (°C)	>2000°C
Dust explosion characteristics	No dust explosion hazard

**Note:** According to GB/T 16483 and GB/T 17519, most of the inapplicable physical and chemical properties are not listed.

**SECTION 10: Stability And Reactivity**

**Reactivity**

Stable at room temperature and atmospheric pressure

**Dangerous reaction**

Not yet found

**Conditions to avoid contact**

There is no danger under normal use conditions.

**Conditions should be avoided**

Pyrolysis is possible at >2000 °C.

**Forbidden substance**

Unknown

**Hazardous decomposition products**

Not yet found.

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**SECTION 11: Toxicological Information**

**General description**

Epidemiological studies have so far found no evidence of a relationship between exposure to titanium dioxide and the effects of dust on respiratory disease.

**Acute toxicity: (LD50/LC50 values related to classification)**

Mode of exposure	Value/Value Range	Species
Oral	LD50>5000 mg/kg, classification criteria not met	Rats
Skin contact	LD 50>5000 mg/kg	Rabbit
Inhalation	LC 50>6.82 mg/L	Rats

**Special symptoms in animal test: none**

**Acute inhalation: No deaths were observed in animal tests at the technically highest possible concentration.**

**irritant/corrosive effects:**

Mode of exposure	Action	Type/test system
Skin corrosion/irritation	No irritation	Rabbit
Eyes Eye damage/eye		
Irritation	No irritation	Rabbit
Respiratory or skin		
Irritations	No irritation	Mice
Subacute and chronic		
Toxicity	Animal tests have shown no carcinogenic or reproductive effects.	
Practical experience	Long-term contact with the product has no negative impact on health.	

**SECTION 12: Ecological Effects**

**Ecological toxicity:**

Species	Test method	Exposure time	Result	Source
Dumb minnow	Acute	96h	>1000 mg/L(LC50)	Literature
Rainbow trout	Acute	96 h	>100 mg/L(LC50)	Literature

It is estimated to be harmless to aquatic organisms. As far as is known, there is no negative effect on the sewage treatment plant.

**General considerations**

Non-biodegradable. Not harmful to the environment. Can be removed from waste water by mechanical means.

**SECTION 13: Disposal considerations**

**Products**

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Recycle as much as possible. If can't recycle, you must follow the local laws and regulations.

Uncleaned packaging

Suggestion: Empty the container completely (no drips, no powder residue, scrape carefully). The container may be recycled or reused. Observe local laws and regulations.

## SECTION 14: Transport Information

### Mode of transport

Risk assessment

### Highway

Non-dangerous goods

### Railway

Non-dangerous goods

### By sea

Non-dangerous goods

### By air

Non-dangerous goods

## SECTION 15: Regulatory Information

**Not listed in the List of Hazardous Chemicals, it is not precursor or explosive hazardous chemicals.**

**The following laws, regulations, rules and standards provide for the management of the chemical**

Law of the People's Republic of China on Prevention and Control of Occupational Diseases Occupational Exposure Limits for Hazardous Agents in the Workplace Chemical Hazardous Agents (GBZ 2.1)

Safety Data Sheet for Chemicals-Contents and Sequence of items (GB/T 16483)

Guidance on the Compilation of Safety Data Sheet for Chemicals (GB/T 17519)

Rules on the Compilation of Safety Labels for Chemicals (GB 15258)

### Directory status

Listed in China inventory of Existing Chemical Substances (IECSC)

## 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.