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

**Product Identifier**

Product Name: SiSiB® WR1689

Chemical Name: Silicone Water Repellent

**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**

**Label elements**

**Hazard pictograms** Not applicable  
**Signal word** Not applicable  
**Hazard statements**  
**Hazard statements** Not applicable  
**Precautionary statements**  
**Prevention** Not applicable  
**Response** Not applicable  
**Storage** Not applicable  
**Disposal** Not applicable  
**Other hazards** Not applicable

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

Component	Cas No.	EC No.	Index No.	Hazard classification according to CLP	Specific Concentration limits, M-Factors, Acute Toxicity Estimates (ATE)	Concentration (weight percent, %)
Poly(dimethylsiloxane)	63148-62-9	-	-	Not Classified		100%

## SECTION 4: First aid measures

### General advice

Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.

### Skin contact

Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.

### Ingestion

Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison Control Center immediately.

### Inhalation

Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.

### Protecting of first-aiders

Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

### Most important symptoms and effects, both acute and delayed

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Symptoms may be delayed.

## SECTION 5: Firefighting measures

### Extinguishing media

#### Suitable extinguishing media

Foam Carbon dioxide (CO<sub>2</sub>) Dry powder.

#### Unsuitable extinguishing media

There is no restriction on the type of extinguisher which may be used.

### Specific hazards arising from the substance or mixture

Containers may explode when heated.

May expansion or decompose explosively when heated or involved in fire.

### Advice for firefighters

As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.

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Fight fire from a safe distance, with adequate cover.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

## **SECTION 6: Accidental release measures**

### **Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Use personal protective equipment. Avoid breathing vapours, mist, gas or dust.

### **Environmental precautions**

Prevent further leakage or spillage if safe to do so.

Discharge into the environment must be avoided.

### **Methods and materials for containment and cleaning up**

Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.

Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

## **SECTION 7: Handling and storage**

### **Protective measures**

Handling is performed in a well-ventilated place.

Wear suitable protective equipment.

Avoid contact with skin and eyes.

### **Measures to prevent fire**

Keep away from heat/sparks/open flames/ hot surfaces.

### **Measures to prevent aerosol and dust generation**

Not applicable.

### **Advice on general occupational hygiene**

Wash hands and face after using of the substances.

Replace the contaminated clothing immediately.

### **Conditions for safe storage, including any incompatibilities**

Keep containers tightly closed.

Keep containers in a dry, cool and well-ventilated place.

Keep away from heat/sparks/open flames/hot surfaces.

Store away from incompatible materials and foodstuff containers.

### **Specific end uses**

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In addition to use mentioned in the first parts, unforeseen other specific end uses.

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

**Control parameters**

**Occupational Exposure limit values**

No information available

**Biological limit values**

No information available

**Monitoring methods**

EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

GBZ/T 160.1~GBZ/T 160.81-2004 Determination of toxic substances in workplace air (Series standard).

Derived No effect level (DNEL)

Component	Route of exposure	DNEL for Workers			
		Acute effects(local)	Acute effects(systemic)	Chronic effects(local)	Chronic effects(systemic)
Poly(dimethyl siloxane) 63148-62-9	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available

**Predicted No Effect Concentration (PNEC)**

No information available

**Engineering controls**

Ensure adequate ventilation, especially in confined areas.

Ensure that eyewash stations and safety showers are close to the workstation location.

Use explosion-proof electrical/ventilating/lighting/equipment.

Set up emergency exit and necessary risk-elimination area.

**Personal protection equipment**

**General requirement**



**Eye protection**

Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US)).

**Hand protection**

Wear protective gloves (such as butyl rubber), passing the tests according to EN 374(EU), US F739 or

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AS/NZS 2161.1 standard.

**Respiratory protection**

If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.

**Skin and body protection**

Wear fire/flame resistant/retardant clothing and antistatic boots.

**SECTION 9: Physical and Chemical Properties**

**Physical and chemical properties**

<b>Physical state</b>	liquid
<b>Color</b>	Colorless hazy
<b>Odor</b>	Slight odor
<b>Odor threshold</b>	No information available
<b>pH</b>	No information available
<b>Melting point/freezing</b>	
<b>Point (°C)</b>	No information available
<b>Initial boiling point and boiling range (°C)</b>	Min.190 °C (1013 mmHg)
<b>Flash point (Closed Cup, °C)</b>	70 °C
<b>Evaporation rate</b>	No information available
<b>Flammability</b>	No information available
<b>Upper/lower explosive limits[% (v/v)] Upper limit:</b>	No information available; Lower limit: No information available
<b>Vapor pressure</b>	Max. 50hPa (20°C)
<b>Vapor density(Air=1)</b>	No information available
<b>Relative density (Water=1)</b>	0.90-0.95
<b>Solubility(mg/L) n-octanol/water</b>	Partly miscible with water (Poly(dimethylsiloxane))
<b>partition coefficient</b>	No information available
<b>Auto-ignition Temperature (°C)</b>	Min. 280°C
<b>Decomposition Temperature (°C)</b>	No information available
<b>Viscosity (mm<sup>2</sup>/s)</b>	20
<b>Explosive properties</b>	No information available
<b>Oxidizing properties</b>	No information available

**SECTION 10: Stability And Reactivity**

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**Reactivity**

Contact with incompatible substances can cause decomposition or other chemical reactions.

**Chemical stability**

Stable under proper operation and storage conditions.

**Possibility of hazardous reactions**

No information available

**Conditions to avoid**

Incompatible materials, heat, flame and spark.

**Incompatible materials**

No information available

**Hazardous decomposition products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**SECTION 11: Toxicological Information**

**Acute toxicity** No information available

**Carcinogenicity**

Cas No.	Component	IARC	NTP
63148-62-9	Poly(dimethylsiloxane)	Not Listed	Not Listed

**Others**

**Silicone water repellent**

**Skin corrosion/irritation** No information available

**Serious eye damage/irritation** No information available

**Skin sensitization** No information available

**Respiratory sensitization** No information available

**Reproductive toxicity** No information available

**STOT-single exposure** No information available

**STOT-repeated exposure** No information available

**Aspiration hazard** No information available

**Germ cell mutagenicity** No information available

**Reproductive toxicity(additional)** No information available

**SECTION 12: Ecological Effects**

**Acute aquatic toxicity** No information available

**Chronic aquatic toxicity** No information available

**Persistence and degradability** No information available

**Bioaccumulative potential** No information available

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**Mobility in soil** No information available

**Results of PBT and vPvB assessment**

Component	Cas No.	Results of PBT and vPvB assessment (according to (EC) No 2015/830)
Poly(dimethylsiloxane)	63148-62-9	not PBT/vPvB

**SECTION 13: Disposal considerations**

**Waste chemicals**

Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal.

**Contaminated packaging**

Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.

**Disposal recommendations**

Refer to section 13.

**SECTION 14: Transport Information**

**Label and Mark**

**Transporting Label** Not applicable

**IMDG-CODE**

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

**CAO/IATA-DGR**

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

**UN-ADR**

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

**SECTION 15: Regulatory Information**

**International chemical inventory**

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
Poly(dimethylsiloxane)	√	√	√	√	√	√	√	√	√

**EINECS**

European Inventory of Existing Commercial Chemical Substances

**TSCA**

United States Toxic Substances Control Act Inventory

**DSL**

Canadian Domestic Substances List

**IECSC**

China Inventory of Existing Chemical Substances

**NZIoC**

New Zealand Inventory of Chemicals

**PICCS**

Philippines Inventory of Chemicals and Chemical Substances

**KECI**

Existing and Evaluated Chemical Substances

**AICS**

Australia Inventory of Chemical Substances

**ENCS**

Existing And New Chemical Substances

**Note**

“√” Indicates that the substance included in the regulations

“×” That no data or included in the regulations

**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.