

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

**Product Identifier**

Product Name: SiSiB® PC19816

Chemical Name: Silsesquioxanes, phenyl trimethylsilyloxy-terminated

**Relevant identified uses of the substance or mixture and uses advised against**

Relevant applications identified Used for formulation of personal care products. Professional use of personal care products. Uses in cosmetics/personal care products, perfumes and fragrances.

**CASRN:** 70131-69-0

**EC-No.:** 939-487-8

**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**

Acute toxicity - Inhalation Category 2 H330

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

**Label elements**

**Labelling according Regulation (EC) No 1272/2008**



**Hazard pictograms**

**Signal word:** DANGER

**Hazard statements**

H330 Fatal if inhaled.

**Precautionary statements**

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

P271 Use only outdoors or in a well-ventilated area.

P284 In case of inadequate ventilation wear respiratory protection.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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P403 + P233  
 P501

Immediately call a POISON CENTER/doctor.  
 Store in a well-ventilated place. Keep container tightly closed.  
 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**  
 No data available

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

**Substances**  
 This product is a substance.

CASRN EC-No.	Concentration	Component	Classification: REGULATION (EC) No. 1272/2008
CASRN 70131-69-0 EC-No. 939-487-8	100,0%	Silsesquioxanes, phenyl trimethylsilyloxyterminated	Acute Tox. - 2 - H330

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

**SECTION 4: First aid measures**

**Description of first aid measures**

**General advice**

If potential for exposure exists refer to Section 8 for specific personal protective equipment.

**If inhaled**

Move person to fresh air; if effects occur, consult a physician.

**In case of skin contact**

Wash off with plenty of water.

**In case of eye contact**

Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

**If swallowed**

No emergency medical treatment necessary.

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

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms

and effects are described in Section 11: Toxicology Information.

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

**Notes to physician:**

No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

**SECTION 5: Firefighting measures**

**Extinguishing media**

**Suitable extinguishing media**

Water spray Alcohol-resistant foam Carbon dioxide (CO<sub>2</sub>) Dry chemical

**Unsuitable extinguishing media**

None known.

**Special hazards arising from the substance or mixture**

**Hazardous combustion products:**

Silicon oxides Carbon oxides

**Unusual Fire and Explosion Hazards:**

Exposure to combustion products may be a hazard to health.

**Advice for firefighters**

**Fire Fighting Procedures:**

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

**Special protective equipment for firefighters:**

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

**SECTION 6: Accidental release measures**

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

Evacuate personnel to safe areas. Only trained personnel should re-enter the area. Follow safe handling advice and personal protective equipment recommendations.

**Environmental precautions:**

Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so.

Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

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

Soak up with inert absorbent material. Local or national regulations may apply to releases and disposal of

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this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, Clean up remaining materials from spill with suitable absorbent. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

**Reference to other sections**

See sections: 7, 8, 11, 12 and 13.

**SECTION 7: Handling and storage**

**Precautions for safe handling**

Do not breathe vapors or spray mist. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Keep container tightly closed.

Take care to prevent spills, waste and minimize release to the environment. Handle in accordance with good industrial hygiene and safety practice.

Use with local exhaust ventilation. See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

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

Keep in properly labelled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations.

Do not store with the following product types: Strong oxidizing agents. Flammable liquids. Flammable solids. Pyrophoric liquids. Pyrophoric solids. Self-heating substances and mixtures. Substances and mixtures, which in contact with water, emit flammable gases. Explosives. Gases.

**Specific end use(s)**

no data available

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

**Control parameters**

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

**Derived No Effect Level**

Silsesquioxanes, phenyl trimethylsilyloxy-terminated

**Workers**

Acute systemic effects		Acute local effects		Long-term systemic effects		Long-term local effects	
Dermal	Inhalation	Dermal	Inhalation	Dermal	Inhalation	Dermal	Inhalation
10 mg/kg bw/day	71 mg/m3	n.a.	n.a.	10 mg/kg bw/day	71 mg/m3	n.a.	n.a.

**Consumers**

Acute systemic effects	Acute local effects	Long-term systemic effects	Long-term local
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						effects			
Dermal	Inhalation	Oral	Dermal	Inhalation	Dermal	Inhalation	Oral	Dermal	Inhalation
n.a.	n.a.	5 mg/kg bw/day	n.a.	n.a.	n.a.	n.a.	5 mg/kg bw/day	n.a.	n.a.

**Predicted No Effect Concentration**

Silsesquioxanes, phenyl trimethylsilyloxy-terminated

Compartment	PNEC
Fresh water	0,0007 mg/l
Marine water	0,00007 mg/l
Fresh water sediment	0,722 mg/kg
Marine sediment	0,0722 mg/kg
Soil	0,062 mg/kg
Sewage treatment plant	100 mg/l

**Exposure controls**

**Engineering controls**

Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

**Individual protection measures**

**Eye/face protection**

Use safety glasses (with side shields). Safety glasses (with side shields) should be consistent with EN 166 or equivalent.

**Skin protection**

**Hand protection**

Chemical protective gloves should not be needed when handling this material. Consistent with general hygienic practice for any material, skin contact should be minimized.

**Other protection:**

No precautions other than clean body-covering clothing should be needed.

**Respiratory protection:**

Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator. Use the following CE approved air-purifying respirator: Organic vapor cartridge with a particulate pre-filter, type AP2.

**Environmental exposure controls**

See SECTION 7: Handling and storage and SECTION 13: Disposal considerations for measures to prevent excessive environmental exposure during use and waste disposal.

## SECTION 9: Physical and Chemical Properties

### Information on basic physical and chemical properties

Physical state	liquid
Color	colorless
Odor	none
Odor Threshold	no data available
pH	no data available
Melting point/range	no data available
Freezing point	no data available
Boiling point (760 mmHg)	> 250 °C
Flash point:	closed cup > 101 °C
Evaporation rate (Butyl Acetate= 1)	no data available
Flammability (solid, gas)	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapor pressure:	no data available
Relative Vapor Density (air = 1)	no data available
Relative density (water = 1)	0.98
Water solubility:	no data available
Partition coefficient: n-octanol/water	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Kinematic Viscosity	20 cSt at 25 °C
Explosive properties	Not explosive
Oxidizing properties	The substance or mixture is not classified as oxidizing.

### Other information

Molecular weight	No data available
Particle size	Not applicable

NOTE: The physical data presented above are typical values and should not be construed as a specification.

## SECTION 10: Stability And Reactivity

### Reactivity

Not classified as a reactivity hazard.

### Chemical stability

Stable under normal conditions.

### Possibility of hazardous reactions

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Can react with strong oxidizing agents.

**Conditions to avoid**

None known.

**Incompatible materials**

Oxidizing agents

**Hazardous decomposition products**

Benzene.

**SECTION 11: Toxicological Information**

**Information on toxicological effects**

**Acute toxicity**

**Acute oral toxicity**

Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.

As product: Single dose oral LD50 has not been determined.

**Acute dermal toxicity**

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

LD50, Rabbit, male and female, > 2 000 mg/kg No deaths occurred at this concentration.

**Acute inhalation toxicity**

If material is heated or sprayed to generate aerosols or mists, concentrations may be attained that are sufficient to cause slight local inflammation of the lungs and other respiratory effects.

LC50, Rat, 4 Hour, dust/mist, 0,467 mg/l

**Skin corrosion/irritation**

Essentially nonirritating to skin.

**Serious eye damage/eye irritation**

May cause slight temporary eye irritation.

Corneal injury is unlikely.

**Sensitization**

Did not cause allergic skin reactions when tested in guinea pigs.

For respiratory sensitization:

No relevant data found.

**Specific Target Organ Systemic Toxicity (Single Exposure)**

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

**Specific Target Organ Systemic Toxicity (Repeated Exposure)**

Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

**Carcinogenicity**

No relevant data found.

**Teratogenicity**

Did not cause birth defects in laboratory animals.

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**Reproductive toxicity**

No relevant data found.

**Mutagenicity**

In vitro genetic toxicity studies were negative.

**Aspiration Hazard**

Based on physical properties, not likely to be an aspiration hazard.

**COMPONENTS INFLUENCING TOXICOLOGY:**

**Silsesquioxanes, phenyl trimethylsilyloxy-terminated**

**Acute oral toxicity**

Single dose oral LD50 has not been determined.

**SECTION 12: Ecological Effects**

**Toxicity**

**Silsesquioxanes, phenyl trimethylsilyloxy-terminated**

**Acute toxicity to fish**

Material is not classified as dangerous to aquatic organisms (LC50/EC50/IC50/LL50/EL50 greater than 100 mg/L in most sensitive species).

LC50, Danio rerio (zebra fish), 96 Hour, > 500 mg/l

**Persistence and degradability**

**Silsesquioxanes, phenyl trimethylsilyloxy-terminated**

**Biodegradability:**

For similar material(s): Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

<b>10-day Window:</b>	Fail
<b>Biodegradation:</b>	2,2 %
<b>Exposure time:</b>	28 d
<b>Method:</b>	OECD Test Guideline 301F

**Bioaccumulative potential**

**Silsesquioxanes, phenyl trimethylsilyloxy-terminated**

**Bioaccumulation:** For the hydrolysis product(s)

**Partition coefficient: n-octanol/water(log Pow):** Pow: 6 - 9 estimated

**Mobility in soil**

**Silsesquioxanes, phenyl trimethylsilyloxy-terminated**

Expected to be relatively immobile in soil (Koc > 5000).

**Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.



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**Other adverse effects**

**Silsesquioxanes, phenyl trimethylsilyloxy-terminated**

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

**SECTION 13: Disposal considerations**

**Waste treatment methods**

Do not dump into any sewers, on the ground, or into any body of water. This product, when being disposed of in its unused and uncontaminated state should be treated as a hazardous waste according to EC Directive 2008/98/EC. Any disposal practices must be in compliance with all national and provincial laws and any municipal or local by-laws governing hazardous waste. For used, contaminated and residual materials additional evaluations may be required.

The definitive assignment of this material to the appropriate EWC group and thus its proper EWC code will depend on the use that is made of this material. Contact the authorized waste disposal services.

**SECTION 14: Transport Information**

**Classification for ROAD and Rail transport (ADR/RID):**

**UN number**

Not applicable

**UN proper shipping name**

Not regulated for transport

**Transport hazard class(es)**

Not applicable

**Packing group**

Not applicable

**Environmental hazards**

Not considered environmentally hazardous based on available data.

**Special precautions for user**

No data available

**Classification for SEA transport (IMO-IMDG):**

**UN number**

Not applicable

**UN proper shipping name**

Not regulated for transport

**Transport hazard class(es)**

Not applicable

**Packing group**

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Not applicable

**Environmental hazards**

Not considered as marine pollutant based on available data.

**Special precautions for user**

No data available.

**Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code**

Consult IMO regulations before transporting ocean bulk

**Classification for AIR transport (IATA/ICAO):**

**UN number**

Not applicable

**UN proper shipping name**

Not regulated for transport

**Transport hazard class(es)**

Not applicable

**Packing group**

Not applicable

**Environmental hazards**

Not applicable

**Special precautions for user**

No data available.

**Further information:**

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

**SECTION 15:Regulatory Information**

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

**REACH Regulation (EC) No 1907/2006**

Polymers are exempted from registration under REACH. All relevant starting materials and additives have been either pre-registered, registered, or are exempt from registration to Regulation (EC) No.1907/2006 (REACH).,The aforementioned indications of the REACH registration status are provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. It is the buyer's/user's responsibility to ensure that his/her understanding of the regulatory status of this product is correct.

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**Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.**

Listed in Regulation: ACUTE TOXIC

Number in Regulation: H2

50 t

200 t

**Installations classified for the protection of the environment (Environment Code R511-9)**

4120: Acute toxicity category 2 for at least one route of exposure.

**Occupational Illnesses (R-461-3, France):**

(Not applicable)

**Chemical Safety Assessment**

A Chemical Safety Assessment has been carried out for this substance.

## SECTION 16: Other Information

**Full text of H-Statements referred to under sections 2 and 3.**

H330 Fatal if inhaled.

**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.