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

Product Name: SiSiB® PC5880  
 Chemical Name: Trichloro(octadecyl)silane  
 CAS-No.: 112-04-9

**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****Classification according to Regulation (EC) No 1272/2008**

Skin corrosion (Sub-category 1B), H314

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

**Label elements****Labelling according Regulation (EC) No 1272/2008 [CLP]**

Pictogram

Signal word

Danger

Hazard statement(s)

H314

Causes severe skin burns and eye damage.

Precautionary statement(s)

P280

Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301 + P330 + P331

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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Supplemental Hazard Statements none

**Other hazards**

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.

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

Synonyms: Octadecyltrichlorosilane

Formula:  $C_{18}H_{37}Cl_3Si$ 

Molecular Weight: 387.93 g/mol

CAS-No.: 112-04-9

EC-No.: 203-930-7

Component	Classification	Concentration
Trichloro(octadecyl)silane	Skin Corr. 1B; H314	<= 100 %

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**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

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

no data available

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

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

Carbon oxides, Hydrogen chloride gas, silicon oxides

**Advice for firefighters**

Wear self-contained breathing apparatus for fire fighting if necessary.

**Further information**

No data available

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

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas.

For personal protection see section 8.

**Environmental precautions:**

Do not let product enter drains.

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

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

**Reference to other sections**

For disposal see section 13.

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

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

For precautions see section 2.

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

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place. Air sensitive.

**Specific end uses**

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

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

**Control parameters****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**Exposure controls****Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal protective equipment****Eye/face protection**

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

**Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

Do not let product enter drains.

**SECTION 9: Physical and Chemical Properties****Information on basic physical and chemical properties**

- |  |                               |
|--|-------------------------------|
| a) Appearance                              | Form: liquid<br>Color: yellow |
| b) Odor                                    | no data available             |
| c) Odor Threshold                          | no data available             |
| d) pH                                      | no data available             |
| e) Melting point/freezing point            | Melting point: 22 °C          |
| f) Initial boiling point and boiling range | 223 °C at 13 hPa - lit.       |

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g) Flash point	207 °C - closed cup - Regulation (EC) No. 440/2008, Annex, A.9
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	no data available
k) Vapor pressure	no data available
l) Vapor density	no data available
m) Relative density	0.984 g/cm <sup>3</sup> at 25 °C
n) Water solubility	no data available
o) Partition coefficient: n-octanol/water	no data available
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties	no data available
t) Oxidizing properties	no data available
<b>Other safety information</b>	
Surface tension	56.35 mN/m at 20 °C - Surface tension

## SECTION 10: Stability And Reactivity

### Reactivity

no data available

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

no data available

### Conditions to avoid

no data available

### Incompatible materials

Strong oxidizing agents, Strong acids, Reacts violently with water., Strong bases

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Hydrogen chloride gas, silicon oxides

Other decomposition products - No data available

In the event of fire: see section 5

## SECTION 11: Toxicological Information

**Information on toxicological effects****Acute toxicity**

No data available

**Skin corrosion/irritation**

Causes skin burns. (ECHA)

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Respiratory or skin sensitization**

no data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

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: Not available

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Cough, Shortness of breath, Headache, Nausea, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**SECTION 12: Ecological Effects****Toxicity**

no data available

Toxicity to daphnia and other aquatic invertebrates

static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h  
(OECD Test Guideline 202)

Toxicity to algae

static test EC50 - Desmodesmus subspicatus (green algae) - > 31.8 mg/l - 72 h  
(OECD Test Guideline 201)

static test EC50 - Desmodesmus subspicatus (green algae) - > 29.5 mg/l - 72 h  
(OECD Test Guideline 201)

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### Persistence and degradability

Biodegradability

aerobic Theoretical oxygen demand - Exposure time 28 d

Result: 57 % - Inherently biodegradable.

(OECD Test Guideline 301F)

### Bioaccumulative potential

no data available

### Mobility in soil

no data available

### 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.

### Other adverse effects

Biological effects:

Harmful effect due to pH shift. Forms corrosive mixtures with water even if diluted. After hydrolysis acid effect on fish and plankton.

Discharge into the environment must be avoided.

## SECTION 13: Disposal considerations

### Waste treatment methods

#### Product:

Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

#### Contaminated packaging

Dispose of as unused product.

## SECTION 14: Transport Information

### UN number

ADR/RID: 1800

IMDG: 1800

IATA: 1800

### UN proper shipping name

ADR/RID: OCTADECYLTRICHLOROSILANE

IMDG: OCTADECYLTRICHLOROSILANE

IATA: Octadecyltrichlorosilane

Passenger Aircraft: Not permitted for transport

### Transport hazard class(es)

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ADR/RID: 8	IMDG: 8	IATA: 8
<b>Packing group</b>		
ADR/RID: II	IMDG: II	IATA: II
<b>Environmental hazards</b>		
ADR/RID: no	IMDG Marine Pollutant: no	IATA: no
<b>Special precautions for user</b>		
no data available		

## SECTION 15:Regulatory Information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)

### Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

## SECTION 16:Other Information

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

H314 Causes severe skin burns and eye damage.

### 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.