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

### Product Identifier

Product Name: SiSiB® PC5121  
 Chemical Name: Dimethoxy(methyl)silane  
 CAS-No.: 16881-77-9  
 EC-No.: 240-914-9

### 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)[CLP]

Flammable liquids	Category 2	H225
Acute toxicity, Inhalation	Category 1	H330
Serious eye damage	Category 2	H319

### Label elements

#### Labeling as per (EU) 1272/2008)

Statutory basis EU-CLP as per Regulation (EU) No.1272/2008  
 Symbol(s)



Signal word Danger

### Hazard statement

H225 Highly flammable liquid and vapour.  
 H319 Causes serious eye irritation.  
 H330 Fatal if inhaled.

### Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

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P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.

**Other hazards**

Reacts violently with water.

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

Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No.1272/2008

**Methyldimethoxysilane**

CAS-No.	16881-77-9
EC-No.	240-914-9
Formula	C <sub>3</sub> H <sub>10</sub> O <sub>2</sub> Si
Molecular Weight	106.2 g/mol

**SECTION 4: First aid measures****Description of first aid measures**

Take off all contaminated clothing immediately.

**Inhalation:**

If aerosol or mists are formed:

Move victims into fresh air.

**Skin contact:**

Wash off immediately with plenty of water.

Consult a doctor in the event of permanent skin irritation.

**Eye contact:**

With eye held open, thoroughly rinse immediately with plenty of water for at least 10 minutes.

Continue rinsing process with eye rinsing solution.

Protect unharmed eye.

Call ambulance. (Cue: caustic burn of the eyes)

Immediate further treatment in eye clinic/by eye doctor. Continue rinsing eye until arrival at ophthalmic hospital.

**Ingestion:**

Have the mouth rinsed with water.

Only when patient fully conscious:

Have patient drink plenty of water in small sips.

Call a physician immediately.

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

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide.

For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

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

Carbon oxides, Hydrogen chloride gas, silicon oxides

**Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**Special protective equipment for firefighters:**

Water used to extinguish fire should not enter drainage systems, soil or stretches of water.

Ensure there are sufficient retaining facilities for water used to extinguish fire.

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

In case of fire: wear a self-contained respiratory apparatus

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

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

**Environmental precautions:**

Do not allow entrance in sewage water, soil stretches of water, groundwater, and drainage systems.

**Methods and material for containment and cleaning up**

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

**Reference to other sections**

Wear personal protective equipment; see section 8.

Disposal considerations; see section 13.

**SECTION 7: Handling and storage**

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**Precautions for safe handling**

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

Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge.

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

Store in cool place. 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.

Never allow product to get in contact with water during storage.

Recommended storage temperature: 2 - 8 °C

Store under inert gas.

**Specific end use(s)**

No further information available

Applications; see Section 1.

**SECTION 8: Exposure controls/personal protection****Control parameters****Components with workplace control parameters****Exposure controls****Appropriate engineering controls**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

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

Tightly fitting safety goggles. Face shield (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.

**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).

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## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Appearance:

Form	liquid
Color:	colorless
Physical state	liquid
Odor:	no data available
Odor Threshold:	no data available
pH:	10,4 (10 g/l)(20°C)
Melting point/freezing	no data available
Initial boiling point and	61 °C - lit.
Flash point	-9 °C - closed cup
Evaporation rate	no data available
Flammability (solid, gas)	no data available
Upper/lower flammability or explosive limits	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	0.863 g/cm <sup>3</sup> at 20 °C
Water solubility	no data available
Partition coefficient: noctanol/ Water	no data available
Auto ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available

## SECTION 10: Stability and reactivity

### Reactivity

No dangerous reaction known under conditions of normal use.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

Reacts violently with water.

### Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight

### Incompatible materials

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Strong acids, Strong oxidizing agents

**Hazardous decomposition products**

Other decomposition products - no data available

## SECTION 11: Toxicological information

### Information on toxicological effects

Acute toxicity	no data available
Skin irritation	no data available
Eye irritation	no data available.
Sensitization	no data available.
Germ cell mutagenicity	no data available
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

### Carcinogenicity

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

### Potential health effects

<b>Inhalation</b>	May be harmful if inhaled. Causes respiratory tract irritation.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. Causes skin irritation.
<b>Eyes</b>	Causes serious eye irritation.

### Signs and Symptoms of Exposure

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Cough, Shortness of breath, Headache, Nausea

### Additional Information

RTECS: VV3644166

## SECTION 12: Ecological information

### Toxicity

No eco-toxicological data is available for this product.

### Persistence and degradability

Biodegradability No data available

### Bio-accumulative potential

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Bioaccumulation No data available

**Mobility in soil**

Mobility No data available

**Results of PBT and vPvB assessment**

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

**Other adverse effects**

Further Information No data available.

## SECTION 13: Disposal considerations

**Waste treatment methods**

**Product:**

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

**Uncleaned packaging**

Do not reuse empty containers and dispose of in accordance with the regulations issued by the appropriate local authorities.

If there is product residue in the emptied container, follow directions for handling on the container's label. Incorrect disposal or reuse of this container is illegal and can be dangerous.

Other countries: observe the national regulations.

**Waste Key Number**

No waste key number as per the European Waste Types List can be assigned to this product, since such classification is based on the (as yet undetermined) use to which the product is put by the consumer.

The waste key number must be determined as per the European Waste Types List (decision on EU Waste Types List 2000/532/EC) in cooperation with the disposal firm / producing firm / official authority.

## SECTION 14: Transportation information

**UN number:**

ADR/RID: 1992

IMDG: 1992

IATA: 1992

**UN proper shipping name:**

ADR/RID: FLAMMABLE LIQUID, TOXIC, N.O.S. (Methyldimethoxysilane)

IMDG: FLAMMABLE LIQUID, TOXIC, N.O.S. (Methyldimethoxysilane)

IATA: FLAMMABLE LIQUID, TOXIC, N.O.S. (Methyldimethoxysilane)

**Transport hazard class (es):**

ADR/RID: 3(6.1)

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IMDG/IMO: 3(6.1)

ICAO/IATA: 3(6.1)

**Packing Group (PG):**

ADR/RID: II

IMDG: II

IATA: II

**Environmental hazards:**

ADR/RID: no

IMDG Marine Pollutant: no

IATA: no

## SECTION 15: Regulatory information

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

**National legislation**

No data available

**Chemical safety assessment**

No substance-related safety assessment is necessary / has been conducted for this product.

## SECTION 16: Other information

**Relevant H phrases from chapter 3**

H225: Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

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.