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

Product Name: SiSiB® PC9210  
Chemical Name: Hexamethyldisilazane  
CAS-No.: 999-97-3  
EC-No.: 213-668-5

**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, Oral	Category 4	H302
Acute toxicity, Inhalation	Category 4	H332
Acute toxicity, Dermal	Category 3	H311
Skin corrosion	Category 1B	H314
Chronic aquatic toxicity	Category 3	H412

**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 vapor.
H302 + H332	Harmful if swallowed or if inhaled
H311	Toxic in contact with skin.

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H314	Causes severe skin burns and eye damage.
H412	Harmful to aquatic life with long lasting effects.
Precautionary statement (s):	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302 + P352 + P312	IF ON SKIN: Wash with plenty of water. Call a POISON CENTER or doctor/ physician if you feel unwell.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
Supplemental Hazard Statements:	none

**Other hazards**

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

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

Synonyms:	HMDS
Formula:	C <sub>6</sub> H <sub>19</sub> NSi <sub>2</sub>
Molecular weight:	161.39 g/mol
CAS-No.	999-97-3
EC-No.	213-668-5

**Hazardous ingredients according to Regulation (EC) No 1272/2008**

Component	Classification	Concentration
1,1,1,3,3,3-Hexamethyldisilazane		
CAS-No. 999-97-3	Flam. Liq. 2; Acute Tox. 4;	<= 100 %
EC-No. 213-668-5	Acute Tox. 3; Aquatic Chronic.3; H225, H302, H332, H311, H412	

Texts of H phrases see in Chapter 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.

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**If inhaled**

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

**In case of skin contact**

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

**In case of eye contact**

Flush eyes with water as a precaution.

**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 labeling (see section 2) and/or in section 11.

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

No data available

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

Suitable extinguishing media:

- Water spray
- Foam
- Carbon dioxide (CO<sub>2</sub>)
- Dry chemical

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

Carbon oxides, Nitrogen oxides (NO<sub>x</sub>), silicon oxides

**Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**Special protective equipment for firefighters:**

Use water spray to cool unopened containers.

**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 vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

For personal protection see section 8.

**Environmental precautions:**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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## 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).

## Reference to other sections

Disposal considerations; see section 13

## SECTION 7: Handling and storage

### Precautions for safe handling

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

Flash back possible over considerable distance. Container explosion may occur under fire conditions.

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

### Conditions for safe storage, including any incompatibilities

Handle under nitrogen, protect from moisture. Store under nitrogen. 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.

Hydrolyses readily.

Storage class (TRGS 510): Flammable liquids

### Specific end use(s)

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

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

### Personal protective equipment

#### Eye/face protection

Face shield and safety glasses 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.

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The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.4 mm

Break through time: 480 min

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 30 min

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing. 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

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance

Form: liquid

Color: Clear colorless

Odor: No data available

Odor Threshold: No data available

PH: > 7.0

Melting point/freezing point

Melting point/range: -76.19 °C at 1,013 hPa

Initial boiling point and boiling range: 125 °C

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Flash point:	11.4 °C - closed cup
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits	
Upper explosion limit:	16.3 % (V)
Lower explosion limit:	0.8 % (V)
Vapor pressure:	19 hPa at 20 °C
Vapor density:	No data available
Relative density:	0.774 g/mL at 25 °C
Water solubility:	insoluble
Partition coefficient: nocturnal/ water:	log Pow: 2.62
Auto-ignition temperature:	380.0 °C
Decomposition temperature:	No data available
Viscosity:	0.9 mm <sup>2</sup> /s at 20 °C -
Explosive properties:	No data available
Oxidizing properties:	No data available

**Other information**

No data available

**SECTION 10: Stability and reactivity****Reactivity**

No data available.

**Chemical stability**

Hydrolyses readily.

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

No data available.

**Conditions to avoid**

Ammonia is formed upon contact with water or humid air.

Heat, flames and sparks.

**Incompatible materials**

Strong oxidizing agents, Strong acids

**Hazardous decomposition products**

Other decomposition products: No data available

In the event of fire: see section 5

**SECTION 11: Toxicological information**

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

LD50 Oral - Rat - male and female - 851 mg/kg

(OECD Test Guideline 401)

LC50 Inhalation - Rat - male and female - 6 h - 10 mg/l

(OECD Test Guideline 403)

LD50 Dermal - Rabbit - male and female - 547 - 589 mg/kg

(OECD Test Guideline 402)

**Skin corrosion/irritation**

Skin - Rabbit

Result: No skin irritation - 4 h

(OECD Test Guideline 404)

**Serious eye damage/eye irritation**

Eyes - Rabbit

Result: No eye irritation

(OECD Test Guideline 405)

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

Ames test: S. typhimurium

Result: negative

**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.

**Reproductive toxicity**

Reproductive toxicity - Rat - male and female - inhalation (vapor)

No adverse effect has been observed in chronic toxicity tests.

**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**

Repeated dose

Rat - male and female - inhalation (vapor) - NOAEL: 2,640 mg/m<sup>3</sup> - OECD Test

Toxicity: Guideline 413

RTECS: JM9230000

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi,

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pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

## SECTION 12: Ecological information

### Toxicity

Toxicity to fish

Semi-static test LC50 - Danio rerio (zebra fish) - 88 mg/l - 96 h

(Directive 67/548/EEC, Annex V, C.1.)

Toxicity to daphnia and other aquatic invertebrates

Static test EC50 - Daphnia magna (Water flea) - 80 mg/l - 48 h

(Directive 67/548/EEC, Annex V, C.2.)

Toxicity to algae

EC50 - Desmodesmus subspicatus (green algae) - 19.00 mg/l - 72 h

### Persistence and degradability

Aerobic - Exposure time 28 d

Result: 15.3 % - Not readily biodegradable.

(Directive 67/548/EEC Annex V, C.4.E.)

### Bio-accumulative 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, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

### Other adverse effects

Harmful to aquatic life with long lasting effects.

## SECTION 13: Disposal considerations

### Waste treatment methods

#### Product:

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

#### Contaminated packaging

Dispose of as unused product.

#### Waste Key Number

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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: 3286

IMDG: 3286

IATA: 3286

**UN proper shipping name**

ADR/RID:

FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.

IMDG:

FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.

IATA:

FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.

**Transport hazard class (es)**

ADR/RID: 3 (6.1,8)

IMDG: 3 (6.1,8)

IATA: 3 (6.1,8)

**Packaging group**

ADR/RID: II

IMDG: II

IATA: II

**Environmental hazards**

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

**Special precautions for user**

No data available

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

For transport approval see regulatory information

**SECTION 15: Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

**Chemical safety assessment**

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

**SECTION 16: Other information****Full text of H-Statements referred to under sections 2 and 3.**

H225

Highly flammable liquid and vapor.

H302

Harmful if swallowed.

H302 + H332

Harmful if swallowed or if inhaled

H311

Toxic in contact with skin.

H314

Causes severe skin burns and eye damage.

H332

Harmful if inhaled.

H412

Harmful to aquatic life with long lasting effects..

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**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.