

Version 5.1R

Page 1 / 10

Revision Date 18.08.2020

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

Product Name: SiSiB® PC9520  
Chemical Name: Diisopropyldimethoxysilane  
CAS-No.: 18230-61-0  
EC-No.: 421-540-7

**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 liquid, Category 3, H226

Skin irritation, Category 2, H315

Skin sensitization, Category 1, H317

Chronic aquatic toxicity, Category 3, H412

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

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

Pictogram



Symbol(s)

Signal word

Warning

Hazard statement

H226

Flammable liquid and vapor.

H315

Causes skin irritation.

H317

May cause an allergic skin reaction.

H412

Harmful to aquatic life with long lasting effects

Version 5.1R

Page 2 / 10

Revision Date 18.08.2020

## Precautionary statement

## Prevention

P210

Keep away from heat.

P273

Avoid release to the environment.

P280

Wear protective gloves.

## Response

P302 + P352

IF ON SKIN: Wash with plenty of soap and water.

## Other hazards

None known.

## SECTION 3: Composition/information on ingredients

## Substances

Formula:  $C_8H_{20}O_2Si$  (Hill)

Molecular weight: 176.33 g/mol

CAS-No. : 18230-61-0

EC-No. : 421-540-7

## Hazardous components (REGULATION (EC) No 1272/2008)

Component	Classification	Concentration
Diisopropyldimethoxysilane		
CAS-No. 18230-61-0 EC-No. 421-540-7	Flammable liquid, Category 3, H226 Skin irritation, Category 2, H315 Skin sensitization, Category 1, H317 Chronic aquatic toxicity, Category 3, H412	<= 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 immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

## In case of eye contact

Rinse out with plenty of water. Remove contact lenses.

## If swallowed

Version 5.1R

Page 3 / 10

Revision Date 18.08.2020

Immediately make victim drink water (two glasses at most). Consult a physician.

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

Irritant effects, Allergic reactions

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

No data available

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

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

**Unsuitable extinguishing media**

For this substance/mixture no limitations of extinguishing agents are given.

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

Combustible.

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air at elevated temperatures.

Development of hazardous combustion gases or vapors possible in the event of fire.

Fire may cause evolution of: silanes

**Advice for firefighters**

Special protective equipment for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

**Further information**

Remove container from danger zone and cool with water. Suppress (knock down) gases/vapors/mists with a water spray jet. 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**

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

**Environmental precautions:**

Do not let product enter drains. Risk of explosion.

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

Version 5.1R

Page 4 / 10

Revision Date 18.08.2020

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material. Dispose of properly. Clean up affected area.

**Reference to other sections**

For disposal see section 13.

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

Observe label precautions.

**Advice on protection against fire and explosion**

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

**Hygiene measures**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

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

Keep away from heat and sources of ignition. Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature see product label.

**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**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See section 7.

**Personal protective equipment**

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

**Eye/face protection**

Safety glasses.

Version 5.1R

Page 5 / 10

Revision Date 18.08.2020

**Hand protection**

full contact:

Glove material: Nitrile rubber

Glove thickness: 0.40 mm

Break through time: &gt; 480 min

splash contact:

Glove material: natural latex

Glove thickness: 0.6 mm

Break through time: &gt; 240 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 730 Camatril® -Velours (full contact), KCL 706 Lapren® (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet <(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell).

**Other protective equipment**

Flame retardant antistatic protective clothing.

**Respiratory protection**

Required when vapors/aerosols are generated.

Recommended Filter type: Filter A (acc. to DIN 3181) for vapors of organic compounds

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

**Environmental exposure controls**

Do not let product enter drains.

Risk of explosion.

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

- |  |                       |
|--|-----------------------|
| a) Appearance                              | Form: liquid          |
|  | Color: colorless      |
| b) Odor                                    | No strong odor known. |
| c) Odor Threshold                          | no data available     |
| d) pH                                      | no data available     |
| e) Melting point/freezing point            | < -72 °C/-80 °C       |
| f) Initial boiling point and boiling range | 164 °C at 1,013 hPa   |

Version 5.1R	Page 6 / 10	Revision Date 18.08.2020
--------------	-------------	--------------------------

g) Flash point	44 °C - closed cup
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	2.14 hPa at 20 °C
l) Vapor density	no data available
m) Relative density	0.88 g/cm <sup>3</sup> at 20 °C
n) Water solubility	practically insoluble at 20 °C
o) Partition coefficient: n-octanol/water log Pow: 3.8	
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	1.05 mPa.s at 20 °C
s) Explosive properties	Not classified as explosive
t) Oxidizing properties	no data available
<b>Other safety information</b>	
Ignition temperature	240 °C

## SECTION 10: Stability And Reactivity

### Reactivity

Vapor/air-mixtures are explosive at intense warming.

### Chemical stability

Sensitive to moisture

Sensitive to air.

### Possibility of hazardous reactions

Risk of ignition or formation of inflammable gases or vapors with: alkalines, acids

### Conditions to avoid

Heating.

### Incompatible materials

no information available

### Hazardous decomposition products

In the event of fire: see section 5

## SECTION 11: Toxicological Information

### Information on toxicological effects

#### Acute oral toxicity

LD Rat: >= 2,000 mg/kg

Version 5.1R

Page 7 / 10

Revision Date 18.08.2020

OECD Test Guideline 401

**Acute inhalation toxicity**

This information is not available.

**Acute dermal toxicity**

This information is not available.

**Skin irritation**

Rabbit

Result: slight irritation

OECD Test Guideline 404

Causes skin irritation.

**Eye irritation**

Rabbit

Result: slight irritation

OECD Test Guideline 405

**Sensitization**

Sensitization test: Guinea pig

Result: positive

May cause an allergic skin reaction.

**Germ cell mutagenicity**

Genotoxicity in vitro

Ames test

Salmonella typhimurium

Result: negative

**Carcinogenicity**

This information is not available.

**Reproductive toxicity**

This information is not available.

**Teratogenicity**

This information is not available.

**Specific target organ toxicity - single exposure**

This information is not available.

**Specific target organ toxicity - repeated exposure**

This information is not available.

**Aspiration hazard**

This information is not available.

**Further information**

Handle in accordance with good industrial hygiene and safety practice.

**SECTION 12: Ecological Effects**

Version 5.1R

Page 8 / 10

Revision Date 18.08.2020

**Toxicity**

Toxicity to fish

LC50 Cyprinus carpio (Carp): 29 mg/l; 96 h

OECD Test Guideline 203

**Toxicity to daphnia and other aquatic invertebrates**

EC50 Daphnia magna (Water flea): 16 mg/l; 48 h

Toxicity to algae

IC50 Pseudokirchneriella subcapitata (green algae):  $\geq$  36 mg/l; 72 h

Toxicity to bacteria

EC50 activated sludge: &gt; 100 mg/l

**Persistence and degradability**

Biodegradability 5 %

OECD Test Guideline 301D

Not readily biodegradable.

**Bioaccumulative potential**

Partition coefficient: n-octanol/water

log Pow: 3.8

(experimental)

Bioaccumulation is not expected.

**Mobility in soil**

no data available

**Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

**Other adverse effects**

Additional ecological information

Discharge into the environment must be avoided.

**SECTION 13: Disposal considerations****Waste treatment methods****Notice Directive on waste 2008/98/EC.**

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

**SECTION 14: Transport Information****UN number**

ADR/RID: 1993

IMDG: 1993

IATA: 1993



Version 5.1R	Page 9 / 10	Revision Date 18.08.2020
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## UN proper shipping name

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

IMDG: FLAMMABLE LIQUID, N.O.S. (DIISOPROPYLDIMETHOXYSILANE)

IATA: FLAMMABLE LIQUID, N.O.S. (DIISOPROPYLDIMETHOXYSILANE)

## Transport hazard class(es)

ADR/RID: 3

IMDG: 3

IATA: 3

## Packing group

ADR/RID: III

IMDG: III

IATA: III

## Environmental hazards

ADR/RID: no

IMDG Marine Pollutant: no

IATA: no

## Special precautions for user

ADR/RID: Tunnel restriction code: D/E

IMDG: EmS F-E S-E

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

Not relevant

## SECTION 15:Regulatory Information

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

#### EU regulations

#### Major Accident Hazard Legislation

SEVESO III

FLAMMABLE LIQUIDS

P5c

Quantity 1: 5,000 t

Quantity 2: 50,000 t

#### Occupational restrictions

Take note of Dir 94/33/EC on the protection of young people at work.

#### Regulation (EC) No 1005/2009 on substances that deplete the ozone layer

not regulated

#### Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

not regulated

#### Substances of very high concern (SVHC)

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of  $\geq 0.1\%$  (w/w).

#### National legislation

Storage class: 3

#### 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.**

H226	Flammable liquid and vapor.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

**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.