

Version 5.1R

Page 1 / 9

Revision Date 31.07.2018

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

Product Name: SiSiB® PC12010-0.65

Chemical Name: Hexamethyldisiloxane

CAS-No.: 107-46-0

EC-No.: 203-492-7

**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 &amp; 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[EU-GHS/CLP]**

Flammable liquids Category 2 H225

Acute aquatic toxicity Category 1 H400

Chronic aquatic toxicity Category 1 H410

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**

Signal word

Danger

Hazard statement(s)

H225

Highly flammable liquid and vapor.

H410

Very toxic to aquatic life with long lasting effects.

Precautionary statement(s):

P210

Keep away from heat/sparks/open flames/hot surfaces.

No smoking.

P273

Avoid release to the environment.

Version 5.1R	Page 2 / 9	Revision Date 31.07.2018
--------------	------------	--------------------------

P391	Collect spillage.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/ container to an approved waste disposal plant.
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	HMDSO
Formula	$C_6H_{18}OSi_2$
Molecular Weight	162,38 g/mol
Component	Hexamethyldisiloxane
CAS-No.	107-46-0
EC-No.	203-492-7

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

Component	Classification	Concentration
<b>Hexamethyldisiloxane</b>		
CAS-No. 107-46-0	Flam. Liq. 2; Aquatic Acute 1; Aquatic Chronic 1; H225, H400, H410	<= 100 %
EC-No. 203-492-7	M-Factor - Aquatic Acute: 1 - Aquatic Chronic: 1	

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

Wash off with soap and plenty of water. 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

Version 5.1R

Page 3 / 9

Revision Date 31.07.2018

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

**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, silicon oxides

**Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**Further information**

Use water spray to cool unopened containers.

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

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.

**Methods and materials 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**

For disposal see section 13.

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

Avoid inhalation of vapor or mist.

Version 5.1R	Page 4 / 9	Revision Date 31.07.2018
--------------	------------	--------------------------

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

For precautions see section 2.

### 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.

Store under inert gas, hygroscopic

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

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

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.

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: 0.11 mm

Break through time: 480 min

Material tested: Dermatrill® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Version 5.1R

Page 5 / 9

Revision Date 31.07.2018

Material tested: Dermatrill® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell

test method: EN374

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

Impervious clothing, 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	colorless
Odor	no data available
Odor Threshold	no data available
pH	no data available
Melting point/freezing point	Melting point/range: -59 °C - lit.
Initial boiling point and boiling range	101 °C - lit.
Flash point	0,6 °C - closed cup
Evaporation rate	no data available
Flammability (solid, gas)	no data available
Upper/lower flammability or explosive limits	
Upper explosion limit	21,8 %(V)
Lower explosion limit	0,5 %(V)
Vapor pressure	44 hPa at 20 °C
Vapor density:	5,61 - (Air = 1.0)
Relative density	0.764 g/mL at 20 °C

Version 5.1R	Page 6 / 9	Revision Date 31.07.2018
--------------	------------	--------------------------

Water solubility:	0.00093 g/l at 23 °C - slightly soluble
Partition coefficient: n-octanol/water	log Pow: > 4 at 25 °C
Auto-ignition temperature	340 °C at 1,013 hPa
Decomposition temperature	no data available
Viscosity	no data available
Explosive properties	no data available
Oxidizing properties	no data available
<b>Other safety information</b>	
Relative vapor density	5.61 - (Air = 1.0)

## 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

Heat, flames and sparks.

### Incompatible materials

Strong acids, Strong bases, Strong oxidizing agents, Oxygen

### 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 - > 5,000 mg/kg

LC50 Inhalation - Rat - 4 h - 15956 ppm

(OECD Test Guideline 403)

LD50 Dermal - Rabbit - > 2,000 mg/kg

(OECD Test Guideline 402)

NOAEL Oral - Rat - 160 mg/kg

#### Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation

Version 5.1R	Page 7 / 9	Revision Date 31.07.2018
--------------	------------	--------------------------

(OECD Test Guideline 404)

### Serious eye damage/eye irritation

Eyes - Rabbit

Result: No eye irritation

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

Chromosome aberration test in vitro

Chinese hamster lung cells

Result: negative

OECD Test Guideline 475

Rat - Bone marrow

Result: negative

### Carcinogenicity

No data available

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 toxicity to reproduction

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

No significant adverse effects were reported

Developmental Toxicity - Rat - Inhalation

### 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: JM9237000

Prolonged or repeated exposure to skin causes defatting and dermatitis., Dizziness, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## SECTION 12: Ecological Effects

### Toxicity

Toxicity to fish:

flow-through test LC50 - Oncorhynchus mykiss (rainbow trout) - ca. 0.46 mg/l - 96 h

Toxicity to algae:

EC50 - Pseudokirchneriella subcapitata (green algae) - 0.22 mg/l - 95 h

Version 5.1R

Page 8 / 9

Revision Date 31.07.2018

(OECD Test Guideline 201)

**Persistence and degradability**

Biodegradability

aerobic - Exposure time 28 d

Result: 2 % - Not biodegradable

(OECD Test Guideline 301C)

**Bioaccumulative potential**

No data available

Bioaccumulation:

Cyprinus carpio (Carp) - 70 d at 25 °C

Bioconcentration factor (BCF): 1,100 - 2,400

(OECD Test Guideline 305C)

**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**

Very toxic to aquatic life with long lasting effects.

No data available

**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.

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

ADR/RID: 1993

IMDG: 1993

IATA: 1993

**UN proper shipping name**

ADR/RID:

FLAMMABLE LIQUID, N.O.S. (Hexamethyldisiloxane)

IMDG:

FLAMMABLE LIQUID, N.O.S. (Hexamethyldisiloxane)

IATA:

Flammable liquid, n.o.s. (Hexamethyldisiloxane)

**Transport hazard class(es)**



Version 5.1R	Page 9 / 9	Revision Date 31.07.2018
--------------	------------	--------------------------

ADR/RID: 3

IMDG: 3

IATA: 3

**Packing group**

ADR/RID: II

IMDG: II

IATA: II

**Environmental hazards**

ADR/RID: yes

IMDG Marine Pollutant: yes

IATA: no

**Special precautions for user**

no data available

**SECTION 15:Regulatory Information**

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

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

H225

Highly flammable liquid and vapor.

H400

Very toxic to aquatic life.

H410

Very toxic 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.