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

Product Identifier	
Product Name:	SiSiB® PC9510
Chemical Name:	Diisobutyldimethoxysilane
CAS-No.:	17980-32-4
EC-No.:	404-020-4
Relevant identified uses of the sub	stance 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 according to Regulation (EC) No. 1272/2008 [CLP]

Skin irritation Category 2

Chronic aquatic toxicity Category 2

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Irritating to skin.

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



Signal word Hazard statement(s) H315 H411 Precautionary statement(s) P280 P273 P302+P352 P332+P313

Pictogram

Warning

Causes skin irritation. Toxic to aquatic life with long lasting effects.

Wear protective gloves/protective clothing/eye protection. Avoid release to the environment. IF ON SKIN: Wash with plenty of water/soap. If skin irritation occurs: Get medical advice/ attention.

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P391 P501 Collect spillage.

Dispose of contents/container to waste disposal.

Other hazards - none

Product hydrolyses under formation of methanol (CAS no. 67-56-1). Methanol is toxic by inhalation, in contact with skin and if swallowed. Methanol causes damage to organs. Methanol is highly flammable. Inhalation of aerosol spray may damage health.

SECTION 3: Composition/information on ingredients

Substances	
Synonyms:	Donor DIB
Formula:	$C_{10}H_{20}O_2Si$
Molecular Weight:	204.38 g/mol
CAS-No.:	17980-32-4
EC-No.:	404-020-4

SECTION 4: First aid measures

Description of first aid measures

General advice

Take persons to a safe place. Observe self-protection for first aid. Seek medical advice in the event of contact with this substance.

If inhaled

Keep the patient calm. Protect against loss of body heat. Seek medical advice and clearly identify substance.

In case of skin contact

Remove contaminated or soaked clothing. Wash off with plenty of water or water and soap immediately for 10-15 minutes. In serious cases, use emergency shower immediately. Seek medical advice and clearly identify substance.

In case of eye contact

Rinse immediately with plenty of water for 10-15 minutes. Keep eyelids well open to rinse the whole eye surface and eyelids with water. Seek medical advice and clearly identify substance.

If swallowed

If conscious, give several small portions of water to drink. Do not induce vomiting. Seek medical advice and clearly identify substance.

Most important symptoms and effects, both acute and delayed

Any relevant information can be found in other parts of this section.

Indication of immediate medical attention and special treatment needed

Further toxicology information in section 11 must be observed.



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SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

water mist, extinguishing powder, alcohol-resistant foam, carbon dioxide, sand.

Extinguishing media which must not be used for safety reasons:

water jet.

Special hazards arising from the substance or mixture

No data available

Precautions for fire-fighters

Use respiratory protection independent of recirculated air. Keep unprotected persons away.

Further information

No data available

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment (see section 8). Keep unprotected persons away. Avoid contact with eyes and skin. Avoid inhaling mists and vapours. If material is released indicate risk of slipping.

Environmental precautions

Prevent material from entering surface waters, drains or sewers and soil. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers.

Methods and materials for containment and cleaning up

Do not flush away with water. For small amounts: Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Contain larger amounts and pump up into suitable containers. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Exhaust vapours.

Further information:

Eliminate all sources of ignition.

Reference to other sections

Relevant information in other sections has to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

SECTION 7: Handling and storage

Precautions for safe handling

Ensure adequate ventilation. Keep away from incompatible substances in accordance with section 10. Spilled



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substance increases risk of slipping.

Precautions against fire and explosion:

Product can separate methanol. Flammable vapors may accumulate and form explosive mixtures with air in

containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging.

Cool endangered containers with water.

Conditions for safe storage, including any incompatibilities

Conditions for storage rooms and vessels:

Make sure there is no possibility of entering the ground.

Advice for storage of incompatible materials:

not applicable

Further information for storage:

Protect against moisture. Store in original container only. Keep container tightly closed and store in a cool, well ventilated place.

Specific end uses

No data available

If the annex to this safety data sheet contains exposure scenarios for end uses, the information provided therein has to be observed.

SECTION 8: Exposure Controls/Personal Protection

Control parameters

Components with workplace control parameters

Maximum airborne concentrations at the workplace:

CAS No.	Material	Туре	mg/m ³	ppm	Dust fract.	Fibre/m ³
67-56-1	Methanol	OEL	133,0	100,0		

Derived No-Effect Level (DNEL):

Cyclohexyldimethoxymethylsilane

Area of use	Value
Worker; dermal; systemic (acute) systemic (long term)	13,9 mg/kg/day
Worker; by inhalation; systemic (acute) systemic (long term)	98 mg/m³
Consumer; oral; systemic (long term)	8,33 mg/kg/day

Predicted No Effect Concentration (PNEC):

Cyclohexyldimethoxymethylsilane

Area of use	Value
freshwater	0,013 mg/l



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	marine water		0,	0013 mg/l
	Intermittent release		0,	13 mg/l
	Sediment (freshwater)		5,	22 mg/kg dry mass
ĺ	Sediment (marine water)		0,	52 mg/kg dry mass
ĺ	Soil		1,	04 mg/kg dry mass
ĺ	sewage treatment plant		^	10 mg/l
	Secondary poisoning		33	3,3 mg/kg food

Exposure controls

General protection and hygiene measures

Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Do not eat, drink or smoke when handling.

Personal protection equipment

Respiratory protection

In case of long or strong exposure: gas mask filter ABEK .

Hand protection

Protective gloves made of butyl rubber . Gloves suitable for up to 60 minutes' use. The selection of appropriate gloves not only depends on the material, but also on other quality characteristics, and may vary depending on the manufacturer. Please observe information from your glove supplier in terms of permeability and breakthrough time.

Eye protection

tight fitting protective goggles .

Skin protection

protective clothing.

Exposure to the environment limited and controlled

Prevent material from entering surface waters, drains or sewers and soil. Do not introduce large amounts into purification plants.

Further information for system design and engineering measures

Observe information in section 7.

SECTION 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Form: liquid
Color	colourless
Odor	Slight
Odor Threshold	no data available
Refractive index	no data available
рН	no data available
Melting/freezing point	
Melting point/range	no data available



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Initial boiling point and		
boiling range	188 °C at 10)13 h Pa.
Flash point:	68°C - close	ed cup
Sustained combustibility	no data avai	ilable
ignition temperature	no data avai	ilable
Upper/lower flammability		
or explosive limits	no data avai	ilable
Vapour pressure	<1mm at 25	5 °C
Vapour density	no data avai	lable
Relative density	0.86 g/cm ³ a	at 25 °C
Water solubility	no data avai	lable
Solubility in organic solvent	totally miscil	ole with common organic sol vents
Viscosity (dynamic)	no data avai	lable
Viscosity (kinematic)	no data avai	lable
Other information		
no data available		

SECTION 10: Stability And Reactivity

Reactivity; Chemical stability; Possibility of hazardous reactions

If stored and handled in accordance with standard industrial practices no hazardous reactions are known. Relevant information can possibly be found in other parts of this section.

Conditions to avoid

Avoid moisture.

Incompatible materials

Reacts with: water, basic substances and acids. Reaction causes the formation of: methanol.

Hazardous decomposition products

If stored and handled properly: none known . By hydrolysis: methanol .

SECTION 11: Toxicological Information

Information on toxicological effects

Acute toxicity

Product details:

Route of exposure	Result/Effect	Species/Test system	Source
oral	LD50: 2762 mg/kg	rat (female)	test report OECD 401
dermal	LD50: > 2000 mg/kg No mortality with the given dose.	rat	test report OECD 402



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by inhalation LC3 (spray) No give	50: > 5,53 mg/l; 4 h mortality with the en dose.	rat		test report OECD 403	

Skin corrosion/irritation

Product details:

Result/Effect	Species/Test system	Source
irritating	rabbit	test report
		OECD 404

Serious eye damage / eye irritation

Product details:

Result/Effect	Species/Test system	Source
not irritating	rabbit	test report
		OECD 405

Respiratory or skin sensitization

Product details:

Result/Effect	Species/Test system	Source
irritating	rabbit	test report
		OECD 404

Germ cell mutagenicity

Assessment:

Based on the available data the criteria for classification as germ cell mutagen are not fulfilled.

Route of exposure	Result/Effect	Species/Test system	Source
dermal	not sensitizing	guinea-pig; Magnusson-Kligman	test report OECD 406

Product details:

Result/Effect	Species/Test system	Source
negative	mutation assay (in vitro)	test report
	bacterial cells	OECD 471
negative	chromosome aberration assay (in	test report
	vitro)	OECD 473
	mammalian cells	
positive	micro nucleus assay (in vivo)	test report
The result for the other sex	mouse (, male)	OECD 474
was negative	oral; 48 h; erythrocytes	
negative	Rodent Dominant Lethal Test	test report
	mouse (, both sexes)	-
	oral; germ cells	

Carcinogenicity

Assessment:

No data known.



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Reproductive toxicity

Assessment:

No data available

Specific target organ toxicity (single exposure)

Assessment:

No data available

Specific target organ toxicity (repeated exposure)

Assessment:

Based on the available data the criteria for classification as toxic after repeated exposure are not fulfilled.

Product details:

Result/Effect	Species/Test system	Source
NOAEL: 200 mg/kg	Subchronic study rat	literature (read- across
LOAEL: 1000 mg/kg	oral (gavage)	substance)
Target organs: liver	90 d; 7 d/w	OECD 408
Animal tests have shown no		
indications of impairment of		
fertility.		
NOAEL: >= 1000 mg/kg	Subacute study rat	test report
	28 d	OECD 407

Aspiration hazard

Assessment:

No data available

Further toxicological information

Hydrolysis product / impurity: Methanol (CAS 67-56-1) is readily and rapidly absorbed at all exposure routes and is toxic by all routes. Methanol may cause irritation of the mucosa, as well as nausea, vomiting, headaches, vertigo and visual disorders, including blindness (irreversible damage to the optic nerve), acidosis, spasms, narcosis and coma. There may be a delay in the onset of these effects after exposure.

SECTION 12: Ecological Effects

Toxicity

Product details:

Result/Effect	Species/Test system	Source
LC50: 35 mg/l	semistatic rainbow trout (Oncorhynchus mykiss) (96 h)	test report OECD 203
EC50: 13 mg/l (measured)	Static Daphnia magna (48 h)	test report OECD 202
EC50: 2,3 - 48 mg/l (measured)	Static Daphnia	literature
IC50 (growth rate): 35 mg/l	Static Desmodesmus subspicatus (72 h)	test report OECD 201



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EC50 (respiratory inhibition): > 20000 mg/l	sludge (3 h)	test report (read- across substance) OECD 209

Persistence and degradability

Assessment:

Contact with water liberates methanol and silanol- and/or siloxanol-compounds. Silanol- and/or siloxanol-compounds: Biologically not degradable. Methanol biodegrades easily.

Product details:

Biodegradation:

Result	Test system/Method	Source
17 % / 28 d	biological oxygen demand	test report
Not readily biodegradable. Rapid biological degradation of the organic hydrolysis	(BOD)	OECD 301D
product.		

Hydrolysis:

Result	Test system	Source
Half-life: 19 h	pH 7; 25 °C	test report (read- across
		substance) OECD 111

Bioaccumulative potential

No data available

Mobility in soil

No data known

Results of PBT and vPvB assessment

This product contains no relevant substances considered to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

Other adverse effects

No data known

SECTION 13:Disposal considerations

Waste treatment methods

Product

Material that cannot be used, reprocessed or recycled should be disposed of in accordance with Federal, State, and local regulations at an approved facility. Depending on the regulations, waste treatment methods may include, e.g., landfill or incineration.

Contaminated packaging

Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations. Uncleaned packaging should be treated with the same precautions as the material.



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Waste Disposal Legislation Ref.No.(EC)

It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

SECTION 14:Transport Information

UN number					
ADR/RID: 3082		IMDG: 3082	IATA: 3082		
UN proper sh	nipping name				
ADR/RID:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.				
	(Diisobutyldimetho	xysilane)			
IMDG:	IDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.				
	(Diisobutyldimethoxysilane)				
IATA:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.				
	(Diisobutyldimetho	xysilane)			
Transport hazard class(es)					
ADR/RID: 9		IMDG: 9	IATA: 9		
Packaging group					
ADR/RID: III		IMDG: III	IATA: III		
Environmental hazards					
ADR/RID: yes		IMDG Marine pollutant: no	IATA: yes		
Special precautions for user					
EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and					
combination packagings containing inner packagings with Dangerous Goods > 5L for					
liquids or > 5kg for solids.					

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. 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.

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



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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.

