SAFETY DATA SHEET (EC 1907/2006) SiSiB® PC3510

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

Product Identifier	
Product Name:	SiSiB® PC3510
Chemical Name:	2-(3,4-epoxycyclohexyl)-ethyltriethoxysilane
CAS-No.:	10217-34-2
EC No.:	425-050-4
Relevant identified uses of the sub	ostance 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

The product has been classified according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Health Hazards

Skin sensitizer	Category 1	H317: May cause an allergic skin reaction.			
Environmental Hazards					
Chronic hazards	Category 3	H412: Harmful to aquatic life with long lasting			
to the aquatic env	ironment	effects.			
Label Elements	Label Elements				
Contains:	Beta-(3.4-Epoxycy	/clohexyl)ethyltriethoxysilane			
Signal Words:	Warning				
Hazard Statemon					

Hazard Statement(s):

H317: May cause an allergic skin reaction.

H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention:

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P272: Contaminated work clothing should not be allowed out of the workplace.



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	P273: Avoid release to the environment.				
	P280: Wear protective gloves/protective clothing/eye protection/face protection.				
•	Response:				
	P333+P313: If skin irritation or rash occurs: Get medical advice/attention.				
Disposal:					
	P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with				
applicable laws and regula	-	characteristics	at time of disposal.		
Unknown toxicity - Healt		e e (
Acute toxicity, inhalation,	•	0%			
Acute toxicity, inhalation, o		0 %			
Unknown toxicity - Envi		/			
Acute hazards to the aqua		0%			
Chronic hazards to the aq	uatic environment	0 %			
Hazard summary					
Physical Hazards:					
No data available.					
Health Hazards					
Inhalation:					
No data available.					
Eye contact: No evidence of adverse effects from available information.					
	ffects from available	information.			
Skin Contact:					
May cause allergic skin re	action.				
Ingestion:	· · · · · · · · ·				
No evidence of adverse effects from available information.					
Other Health Effects:					
No data available.					
Environmental Hazards:					
No data available.					
Additional Information:					
No data available.					
Other hazards					
No data available.					

SECTION 3: Composition/information on ingredients

Chemical nature:	Beta-(3,4-Epoxycyclohexyl)ethyltriethoxysilane	
Substances		
General information:	No data available.	
Chemical name:	Beta-(3,4-Epoxycyclohexyl)ethyltriethoxysilane	



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CAS-No.:	10217-34-2
EC No.:	425-050-4

Chemical Name	CAS-No.	EC No.	Concentration %	Notes
Beta-(3.4-Epoxycyclohexyl)eth yltriethoxysilane	10217-34-2	425-050-4	50 - <100%	

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

This substance has workplace exposure limit(s). PBT: persistent, biaccumulative and toxic substance. vPvB: very persistent and very biaccumulative substance.

SECTION 4: First aid measures

General:

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory tract irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. Consult a physician for specific advice. Treat symptomatically.

Description of first aid measures

Inhalation:

Move the exposed person to fresh air at once. If respiratory problems, artificial respiration/oxygen. Call a physician or poison control center immediately.

Eye contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact:

Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Wash contaminated clothing before reuse. Get medical attention.

Ingestion:

If conscious, drink plenty of water. Do not induce vomiting. Call a physician or poison control center immediately.

Most important symptoms and effects, both acute and delayed:

Skin sensitization

Symptoms may be delayed.

Indication of any immediate medical attention and special treatment needed

Hazards:

No data available.

Treatment:

Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through



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and flush skin with water. If swallowed, do NOT induce vomiting. Give a glass of water. Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Do not give victim anything to drink if he is unconscious.

SECTION 5: Firefighting measures

General Fire Hazards:

Do not use water jet as an extinguisher, as this will spread the fire. Use water spray to keep fire-exposed containers cool.

Extinguishing media

Suitable extinguishing media:

Alcohol resistant foam. Carbon dioxide Dry chemical.

Unsuitable extinguishing media:

Avoid water in straight hose stream; will scatter and spread fire.

Special hazards arising from the substance or mixture:

In case of fire, carbon monoxide and carbon dioxide may be formed.

Advice for firefighters

Special fire fighting procedures:

Take precautionary measures against static discharges. To prevent and minimize fire or explosion risk from static accumulation and discharge, effectively bond and/or ground product transfer system.

Special protective equipment for fire-fighters:

Wear self-contained breathing apparatus and protective clothing.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Avoid contact with eyes, skin, and clothing. Avoid contact with liquid and vapors. Use personal protective equipment.

Environmental Precautions:

Do not allow runoff to sewer, waterway or ground.

Methods and material for containment and cleaning up:

Absorb spillage with suitable absorbent material. Shovel up and place in a container for salvage or disposal.

Reference to other sections:

Remove sources of ignition. In case of spills, beware of slippery floors and surfaces.

SECTION 7: Handling and storage

Precautions for safe handling

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Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Wash hands after handling. Provide adequate ventilation. Avoid inhalation of dust and vapors.

Storage conditions:

Keep container tightly closed. Keep away from sources of ignition - No smoking.

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed. Keep away from sources of ignition - No smoking.

Storage Stability:

Material is stable under normal conditions.

Specific end use(s):

No data available.

SECTION 8: Exposure Controls/Personal Protection

Control Parameters

Occupational Exposure Limits

Chemical name	Туре	Ex
Ethanol	TWA	1.0

Exposure Limit Values .000 ppm 1.920 mg/m3 Source UK. EH40 Workplace Exposure Limits (WELs)

Biological Limit Values

None.

Exposure controls

Appropriate Engineering Controls:

Provide eyewash station and safety shower. General (mechanical) room ventilation is expected to be satisfactory if handled at low temperatures or in covered equipment. Provide adequate ventilation if fumes or vapors are generated.

Individual protection measures, such as personal protective equipment

General information:

Use only in well-ventilated areas. Do not eat, drink or smoke when using the product. Wash hands after handling. Practice good housekeeping.

Eye/face protection:

Safety glasses with side-shields conforming to EN166

Skin protection

Hand Protection:

Advice: This recommendation is valid only for our Product as delivered. If this product will be mixed with other substances you need to contact a supplier of CE approved protective gloves.

Material: 730 Camatril

Glove thickness: 0,3 mm

Guideline: EN 374

Other:

Safety shoes Wear suitable protective clothing.



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Respiratory Protection:

Respirator with a vapor filter (EN 141) Respiratory protection mask with Filtertype ABEK

Hygiene measures:

Avoid contact with eyes. When using do not smoke. Wash thoroughly after handling.

Environmental exposure controls:

No release to wastewater from process as such, wastewater emissions limited to release generated from final equipment cleaning step using water

SECTION 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance Physical state: liquid Form: liquid Color: Colorless Odor Faint Odor Threshold: No data available. PH No data available < 0 °C Freezing point: **Boiling Point:** > 300 °C (1.013 hPa) Flash Point: 129 °C (ASTM D 93) Evaporation Rate: < 1 (n-Butyl acetate=1) Flammability (solid, gas): No data available. Flammability Limit - Upper (%): No data available. Flammability Limit - Lower (%): No data available. Vapor pressure: < 1,33 hPa (20 °C) Vapor density (air=1): > 1 1,0035 g/cm3 (25 °C) Density: Relative density: 1,0035 (25 °C) Solubility(ies) Solubility in Water: Reactive. Solubility (other): No data available. Partition coefficient (n-octanol/water) Log Pow: No data available. Autoignition Temperature: No data available. Decomposition Temperature: No data available. SADT: No data available. Viscosity, dynamic: No data available. No data available. Viscosity, kinematic: No data available. Explosive properties:

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Oxidizing properties:

No data available.

SECTION 10: Stability And Reactivity

Reactivity:No data available.Chemical Stability:Material is stable under normal conditions.Possibility of hazardous reactions:Hazardous polymerisation does not occur.Conditions to avoid:Keep away from moisture.Incompatible Materials:Oxidizing agents. Amines. Alkalies. Reacts with water or moisture to form: Ethanol.Hazardous Decomposition Products:Carbon oxides, Oxides of silicon.

SECTION 11:Toxicological Information

Information on likely rout	es of exposure
Inhalation:	
No data available.	
Ingestion:	
No data available.	
Skin Contact:	
No data available.	
Eye contact:	
No data available.	
Information on toxicologi	cal effects
Acute toxicity	
Oral	
Product:	LD 50 (Rat, males): > 5.000 mg/kg
Specified substance(s)	
Beta-(3.4-Epoxycy	LD 50 (Rat): > 5.000 mg/kg
clohexyl)ethyltriethoxysilane	9
Dermal	
Product:	LD 50 (Rat, males): > 2.000 mg/kg Not classified
Specified substance(s)	
Beta-(3.4-Epoxycyclohe	LD 50 (Rabbit): > 2.000 mg/kg



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vul) othy dtrigth over cilere		
xyl)ethyltriethoxysilane		
Product:		
	aviaity based on available d	
	oxicity based on available da	ala.
Specified substance(s		
Beta-(3.4-Epoxycyclohe	NU Udla avaliable.	
xyl)ethyltriethoxysilane	,	
Repeated dose toxicity Product:	/	
	Effect Louis (Det(moles) Or	a = 28 b + 1000 mg/kg
	Effect Level (Rat(males), Or	
	Effect Level (Rat(female), O	
	,	Oral, 90 h): 1000 mg/kg (OECD 408) NOEL - No
	(Rat(female), Oral, 90 h): 10	000 mg/kg (OECD 408)
Specified substance(s		
Beta-(3.4-Epoxycyclohe		
NOAEL (Rat, 28 d): 1.00	0 0	
NOAEL (Rat, 90 d): 1.00		
Skin Corrosion/Irritatio	on:	
Product:	ritation	
(Rabbit, 72 h): No skin in		
Specified substance(s		
Beta-(3.4-Epoxycyclohe		
(Rabbit): No skin irritatio		
Serious Eye Damage/E Irritation:	Lye	
Product:	ting	
(Rabbit, 72 h): Non irrita Specified substance(s	-	
•		
Beta-(3.4-Epoxycyclohe		
Measured (Rabbit): No e	•	
Respiratory or Skin Se Product:		
)6 (Cuinas Dig)Sanaitizar	
Specified substance(s	06 (Guinea Pig)Sensitizer	
•		
Beta-(3.4-Epoxycyclohe	• • •	
	D Test Guideline 406 (Guine	ea Fig). positive
Germ Cell Mutagenicit	у	
In vitro Broducti		
Product:		
Chromosomal aberration	(U=UU 473): positive	



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	1	
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DNA Damage and repair as	ssav : negative	
Chinese Hamster Ovary (C		
•	no). Negalive	
SCE assay: negative		
Specified substance(s)		
Beta-(3.4-Epoxycyclohexyl)		Quideline 171 (Quantia Tariaslama Quimanalla
		O-Guideline 471 (Genetic Toxicology: Salmonella
typhimurium, Reverse Muta	••••	
Chinese Hamster Ovary (C	HO) (OECD 476): negative	9
In vivo		
Product:		
, ,	(OECD-Guideline 474 (Ge	netic Toxicology: Micronucleus Test)): negative
Specified substance(s)		
Beta-(3.4-Epoxycyclohexyl)		
Micronucleus test (OECD-0	Guideline 474 (Genetic Tox	<pre>kicology: Micronucleus Test)) (Mouse): negative</pre>
Carcinogenicity		
Product:		
No data available.		
Specified substance(s)		
Beta-(3.4-Epoxycyclohexyl))ethyltriethoxysilane	
No data available.		
Reproductive toxicity		
Product:		
No data available.		
Specified substance(s)		
Beta-(3.4-Epoxycyclohexyl))ethyltriethoxysilane	
No data available.		
Specific Target Organ To	xicity - Single Exposure	
Product:		
No data available.		
Specified substance(s)		
Beta-(3.4-Epoxycyclohexyl)ethyltriethoxysilane	
No data available.		
Specific Target Organ To	xicity - Repeated Exposu	Ire
Product:		
No data available.		
Specified substance(s)		
Beta-(3.4-Epoxycyclohexyl)ethyltriethoxysilane	
No data available.	· •	
Aspiration Hazard		
Product:		



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No data available.

Specified substance(s)

Beta-(3.4-Epoxycyclohexyl)ethyltriethoxysilane No data available.

Other effects:

No data available.

SECTION 12: Ecological Effects

- • •
Toxicity
Acute toxicity
Fish
LC50 (Common Carp, 96 h): 42,3 mg/l (OECD-Guideline 203 (Fish, Acute Toxicity Test))
Specified substance(s)
Beta-(3.4-Epoxycyclohexyl)ethyltriethoxysilane
No data available.
Aquatic Invertebrates
Product:
EC50 (Daphnia magna, 48 h): 58 mg/l (OECD Test Guideline 202)
NOEC (Daphnia magna, 48 h): 32 mg/l (OECD Test Guideline 202)
Specified substance(s)
Beta-(3.4-Epoxycyclohexyl)ethyltriethoxysilane
EC50 (Daphnia magna): 58 mg/l (OECD Test Guideline 202)
Chronic Toxicity
Fish
Product:
No data available.
Specified substance(s)
Beta-(3.4-Epoxycyclohexyl)ethyltriethoxysilane
No data available.
Aquatic Invertebrates
Product:
No data available.
Specified substance(s)
Beta-(3.4-Epoxycyclohexyl)ethyltriethoxysilane
No data available.
Toxicity to Aquatic Plants
Product:
ErC50 (Selenastrum capricornutum, 72 h): 108 mg/l (OECD Test Guideline 201) NOEC (Selenastrum



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capricornutum, 72 h)	6 mg/l (OECD Test Guideline 2	01)
Specified substance	•	,
-	hexyl)ethyltriethoxysilane	
	/I (OECD Test Guideline 201)	
	gradability Biodegradation	
Product:		
The product is not re-	adily biodegradable.	
Specified substance	e(s)	
Beta-(3.4-Epoxycyclo	hexyl)ethyltriethoxysilane	
No data available.		
BOD/COD Ratio		
Product		
No data available.		
Specified substance	e(s)	
Beta-(3.4-Epoxycyclo	hexyl)ethyltriethoxysilane	
No data available.		
Bioaccumulative po	tential	
Product:		
No data available.		
Specified substance	e(s)	
Beta-(3.4-Epoxycyclo	hexyl)ethyltriethoxysilane	
No data available.		
Mobility in soil:		
No data available.		
Known or predicted	distribution to environmental	compartments
Beta-(3.4-Epoxycyclo	hexyl)ethyltriethoxysilane	
No data available.		
Results of PBT and	vPvB assessment:	
No data available.		
Beta-(3.4-Epoxycyclo	hexyl)ethyltriethoxysilane	
No data available.		
Other adverse effect	ts:	
No data available.		

SECTION 13:Disposal considerations

Waste treatment methods

General information:

The generation of waste should be avoided or minimized wherever possible. See Section 8 for information on appropriate personal protective equipment. Do not discharge into drains, water courses or onto the



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ground.

Disposal methods:

Can be incinerated when in compliance with local regulations.

SECTION 14:Transport Information

ADR	
Not regulated.	
ADN	
Not regulated.	
RID	
Not regulated.	
IMDG	
Not regulated.	
ΙΑΤΑ	
Not regulated.	
Special precautions for user:	
This product is not regarded as dangerous goods according to the national and international regulation	าร
on the transport of dangerous goods. Keep away from foodstuffs and animal feed.	
Transport in bulk according to Annex II of MARPOL and the IBC Code:	

Not applicable

SECTION 15:Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture: EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

Regulation (EC) No. 649/2012 Import and export of dangerous chemicals: none

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended: none

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:Chemical nameCAS-No.Concentration

Ethanol	64-17-5	0,1 - 1,0%
---------	---------	------------

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work: none

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding: none

Directive 96/82/EC (Seveso III): on the control of major accident hazards involving dangerous



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substances: none

EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants: none

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

Chemical name	CAS-No.	Concentration
Ethanol	64-17-5	0,1 - 1,0%
Beta-(3.4-Epoxycycl	10217-34-2	100%
ohexyl)ethyltriethoxysilane		

Chemical safety assessment:

No Chemical Safety Assessment has been carried out.

SECTION 16:Other Information

Revision Information:	
Not relevant.	
Key literature reference	es and sources for data:
No data available.	
Wording of the H-stater	nents in section 2 and 3
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.
Training information:	
No data available.	
Classification according	g to Regulation (EC) No 1272/2008 as amended.
Skin Sens. 1, H317	
Aquatic Chronic 3, H412	
Further information	
It must be recognized that	at 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.

