SAFETY DATA SHEET (EC 1907/2006)

SiSiB® PC1951

Version 5.1R

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

Product Identifier	
Product Name:	SiSiB® PC1951
Chemical Name:	N-[3-(trimethoxysilyl)propyl]butylamine
CAS-No.:	31024-56-3
EC-No.:	250-437-8
Relevant identified uses of the su	bstance or mixture and uses advised against
Relevant applications identified	For industrial use
Details of the supplier of the safet	y 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]				
Skin irritation	Category 2	H315		
Serious eye damage	Category 1	H318		
Label elements				
Labelling as per (EU) 1272/2008				
Statutory basis	EU-CLP as per Regulation (EU)	No. 1272/2008		
Symbol(s)				
Signal word	Danger			
Hazard statement				
H315	Causes skin irritation.			
H318	Causes serious eye damage.			
Precautionary statement Prevention				
P280	Wear protective gloves/protective	e clothing/eye protection.		
Precautionary statement Reaction				
P302 + P352	IF ON SKIN: Wash with plenty of	f water/ soap.		
P332 + P313	If skin irritation occurs: Get med	ical advice/ attention.		



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P305 + P351 + P338		autiously with water for several minutes. nses, if present and easy to do. Continue
P310	Immediately call a Pe	OISON CENTER/doctor.
Other hazards		

Not a PBT, vPvB substance as per the criteria of the REACH Regulation.

SECTION 3: Composition/information on ingredients

Substances

Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No.1272/2008 N-[3-(trimethoxysilyl)propyl]butylamine

CAS-No. 31024-56-3	EC-No. 250-437-8	
Skin irritation	Category 2	H315
Serious eye damage	Category 1	H318
Methanol < 1%		
CAS-No. 67-56-1	EC-No. 200-659-6	
Flammable liquids	Category 2	H225
Acute toxicity (Oral)	Category 3	H301
Acute toxicity (Dermal)	Category 3	H311
Acute toxicity (Inhalation)	Category 3	H331
Specific target organ toxicity	Category 1	H370
- single exposure		
Texts of H phrases, see in Chapter	16	
Mixtures		

SECTION 4: First aid measures

Description of first aid measures

Take off all contaminated clothing immediately. Inhalation If aerosol or mists are formed: Move victims into fresh air. In case of persistent discomfort: Consult doctor immediately. Skin contact Wash off immediately with plenty of water. Consult a doctor in the event of permanent skin irritation. Eye contact



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With eye held open, thoroughly rinse immediately with plenty of water for at least 10 minutes.

Continue rinsing process with eye rinsing solution.

Protect unharmed eye.

Call ambulance. (Cue: caustic burn of the eyes)

Immediate further treatment in eye clinic/by eye doctor. Continue rinsing eye until arrival at ophthalmic hospital.

Ingestion

Have the mouth rinsed with water.

Only when patient fully conscious:

Have patient drink plenty of water in small sips.

Call a physician immediately.

Most important symptoms and effects, both acute and delayed

Symptoms

After absorbing large amounts of substance:

Liberation of reaction products (Methanol) can lead to symptoms of poisoning.

Possible signs of poisoning:

daze, dizziness, nausea, colicky abdominal pain, respiratory disturbance.

Symptoms upon increasing intoxication: dysopia, loss of eyesight.

Indication of any immediate medical attention and special treatment needed

If required, therapy of irritative effect.

Treatment:

Early endoscopy in order to assess mucosa lesions in the oesophagus and stomach which may appear. If necessary, aspirate leftover substance.

Detection of substance (Methanol) possible in:

Blood

Antidote treatment: ethanol.

SECTION 5: Firefighting measures

Extinguishing media Suitable extinguishing media Water spray jet Foam Carbon dioxide (CO₂) Dry powder Unsuitable extinguishing media High volume water jet Special hazards arising from the substance or mixture Hazardous fumes in fires, specific to the product: nitrogen oxides (NOx) Advice for firefighters



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Water used to extinguish fi re should not enter drainage systems, soil or stretches of water.

Ensure there are sufficient retaining facilities for water used to extinguish fire.

Fire residues and contaminated fi re extinguishing water must be disposed of in accordance with local regulations.

In case of fi re: wear a self-contained respiratory apparatus

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Ensure adequate ventilation.

Environmental precautions

Do not allow entrance in sewage water, soil stretches of water, groundwater, drainage systems.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Fill into marked, sealable containers.

To be disposed of in compliance with existing regulations.

Suitable binder: sand (for damming up), sawdust

Reference to other sections

Wear personal protective equipment; see section 8.

Disposal considerations; see section 13.

SECTION 7: Handling and storage

Precautions for safe handling

Application, processing: Provide good ventilation or extraction.
Conditions for safe storage, including any incompatibilities
Advice on protection against fire and explosion
Keep away from sources of ignition - No smoking.
Storage
Keep containers tightly closed in a cool, well-ventilated place.
Protect from moisture.
Specific end use(s)

For more details see annexes Exposure scenario.

SECTION 8: Exposure Controls/Personal Protection

Control parameters Methanol CAS-No. 67-56-1

EC-No. 200-659-6



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Control personators		Skip dopignation (
Control parameters	the elvin	Skin designation:(E	EU ELV)	
Can be absorbed through	i the skin.	200		
Control parameters		200 ppm		
		260 mg/m3 Indicative		
Time Waighted Average	(T\A/A) ·/ EI I			
Time Weighted Average DNEL/DMEL values	(100A) .(EU			
End Use		Worker		
Routes of exposure		Inhalation		
Possible health damage		Long-term systemi	c effects	
Value		17,44 mg/m3		
End Use		Worker		
Routes of exposure		Inhalation		
Possible health damage		Acute systemic effe	ects	
Remarks		not applicable		
End Use		Worker		
Routes of exposure		Inhalation		
Possible health damage		Long-term local eff	ects	
Remarks		not applicable		
End Use		Worker		
Routes of exposure		Inhalation		
Possible health damage		Acute local effects		
Remarks		not applicable		
End Use		Worker		
Routes of exposure		dermal		
Possible health damage		Long-term systemi	c effects	
Value		2,47 mg/kg bw/day	/	
End Use		Worker		
Routes of exposure		dermal		
Possible health damage		Acute systemic effe	ects	
Value		not applicable		
End Use		Worker		
Routes of exposure		dermal		
Possible health damage		Long-term local eff	ects	



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	1 age 0 / 15		
Remarks	not a	pplicable	
End Use	Work	er	
Routes of exposure	derm		
Possible health damage		e - local effects	
Remarks		pplicable	
End Use	0000	ral populace	
Routes of exposure	Inhal		
Possible health damage			offacts
Value	-	-term systemic e mg/m3	
value	3,07	mg/mə	
End Use	•	ral populace	
Routes of exposure	Inhala		
Possible health damage		e systemic effect	S
Remarks	not a	pplicable	
End Use	gene	ral populace	
Routes of exposure	Inhala	ation	
Possible health damage	Long	-term local effect	ts
Remarks	not a	pplicable	
End Use	gene	ral populace	
Routes of exposure	Inhala		
Possible health damage	Acute	e local effects	
Remarks	not a	pplicable	
End Use	aene	ral populace	
Routes of exposure	derm	• •	
Possible health damage	Lona	-term local effect	ts
Remarks	•	mg/kg bw/day	
End Use	dene	ral populace	
Routes of exposure	derm		
Possible health damage		e systemic effect	S
Remarks		pplicable	
End Use	dene	ral populace	
Routes of exposure	derm		
Possible health damage		-term local effect	ts
	9		

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Remarks	not applicable		
Komano	not applicable		
End Use	general popula	ace	
Routes of exposure	dermal		
Possible health damage	Acute - local e	ffects	
Remarks	not applicable		
End Use	general popula	ace	
Routes of exposure	Oral		
Possible health damage	Long-term sys	temic effects	
Value	0,883 mg/kg b	w/day	
End Use	general popula	ace	
Routes of exposure	Oral		
Possible health damage	Acute systemi	Acute systemic effects	
Remarks	not applicable		
PNEC values			
	Fresh water		
Value	0,2 mg/l		
	Marine water		
Value	0,02 mg/l		
	water - interm	nittent releases	
Value	2 mg/l		
	Fresh water s	ediment	
Value	0,767 mg/kg d	ry weight	
	Marine sedim	ent	
Value	0,767 mg/kg d	ry weight	
	Soil		
Value	0,036 mg/kg d	ry weight	
	sewage treat	nent plant (STP)	
Value	10 mg/l		
Exposure controls			

Application, processing: Provide good ventilation or extraction.

Personal protective equipment

Respiratory protection

In case of dusts/vapors/aerosols being formed or if the limit values like TLV are exceeded: use respiratory equipment with suitable filter (filter type ABEK) or wear a self-contained respiratory apparatus. Use only respiratory protection equipment with CE-symbol including four digit test number. The filter class for the respirator must be suitable for the maximum expected contaminant concentration



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(gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Note time limit for wearing respiratory protective equipment.

Hand protection

Glove material	for example, butyl-rubber
Material thickness	0,5 mm
Break through time	>= 480 min
Glove material	for example, Fluorinated rubber (Viton)
Material thickness	0,4 mm
Break through time	>= 480 min

Selection of protective gloves to meet the requirements of specific workplaces. Suitability for specific workplaces should be clarified with protective glove manufacturers. The information is based on our own tests, references from the literature and information from glove manufacturers, or derived by analogy with similar materials. Please observe that the daily duration of usage of a chemical protective glove is in practice far shorter due to the many influencing factors (e.g. temperature, mechanical strain on the glove material) than the permeation time determined acc. EN 374.

Eye protection

close-fitting protective goggles (e.g. closed goggles)

Hygiene measures

When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work.

Remove contaminated or saturated clothing.

Wash contaminated clothing before re-use.

Protective measures

Handle in accordance with good industrial hygiene and safety practice.

The personal protective equipment used must meet the requirements of directive 89/686/EEC and amendments (CE certification).

If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used.

If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used. Do not breathe in vapors or aerosols.

Avoid contact with skin and eyes.

SECTION 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Form: liquid
Color	colorless to slightly yellow
Physical	state liquid (20 °C) (1013 hPa)
Odor	slightly ammoniacal
Odor Threshold	no data available



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	10	0 (20 ~/l) (20 °	
pH		9 (20 g/l) (20 °	
Melting point/range		38,0 °C (1013 h	
	-	thod: ISO 3841	
Boiling point/range		8 °C (1013 hPa	,
		thod: DIN 51 7	51
Flash point:		5 °C	
			SO 2719 (Pensky-Martens, Closed Cup)
Evaporation rate		data available	
Lower explosion limit		data available	
Upper explosion limit		data available	
Vapor pressure:		< 0,1 hPa (20 °C)	
	Me	thod: AN-SOP	1024
Density	0,9	0,947 g/cm3 (20 °C)	
	Me	thod: DIN 5175	57
Water solubility	not	not miscible	
	dec	composition by	hydrolysis
Partition coefficient: n-octar	ol/ water log	Pow: 2,2 (20 °	C)
	Me	thod: QSAR	
Thermal decomposition	no	data available	
Viscosity, dynamic	2,5	mPa.s (20 °C)	
	Me	thod: DIN 53 0	15
Explosiveness	not	explosive	
Other information			
Ignition temperature	260	°C	
	Me	thod: DIN 51 7	94

SECTION 10: Stability And Reactivity

ReactivityNo dangerous reaction known under conditions of normal use.Chemical stabilityStable under recommended storage conditions.Possibility of hazardous reactionsExothermic reaction with: acidsConditions to avoidProtect from moisture.Incompatible materialsAcidsHazardous decomposition productsMethanol in case of hydrolysis.



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SECTION 11:Toxicological Information

Information on toxicological effects	
Acute oral toxicity	LD50 Rat: 12825 mg/kg
	Method: OECD Test Guideline 401
Acute inhalation toxicity	In accordance with Section 8.5 in column 2 of REACH Annex
	VIII, no testing of the acute inhalation toxicity is required.
Acute dermal toxicity	LD50 Rabbit: 15200 mg/kg
	Method: OECD Test Guideline 402
Skin irritation	Rabbit
	Skin irritation
	Method: OECD Test Guideline 404
Eye irritation	Rabbit
	Risk of serious damage to eyes.
	Method: OECD Test Guideline 405
Sensitization	Buehler Test Guinea pig: Does not cause skin sensitization.
	Method: OECD Test Guideline 406
Repeated dose toxicity	Oral Rat
	NOAEL: >= 500 mg/kg
	Method: OECD TG 422
Assessment of STOT single exposure	Assessment: The substance or mixture is not classified as
	specific target organ toxicant, single exposure.
Assessment of STOT repeat exposure	Assessment: The substance or mixture is not classified as
	specific target organ toxicant, repeated exposure.
Risk of aspiration toxicity	No evidence of aspiration toxicity
Gentoxicity in vitro	Ames test Salmonella typhimurium
	negative
	Method: OECD TG 471
	gene mutation Chinese hamster (CHO K1 -cells)
	negative
	Method: OECD TG 476
	Test substance: Structurally similar substance
	chromosomal aberration Chinese hamster (V 79 -cells)
	negative
	Method: OECD TG 473
	Test substance: Structurally similar substance
Carcinogenicity	No evidence that cancer may be caused.
Toxicity to reproduction	Screening for reproductive/developmental toxicity Oral Rat
	Number of exposures: daily



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		NOAEL (No Obs	served Adverse Effect Level) of parents:	
>= 500 mg/kg				
Method: OECD TG 422		TG 422		
	Test substance: Structurally similar substance		Structurally similar substance	
ECTION 12: Ecologica	al Effects			
Toxicity				
Toxicity to fish		LC50 Oncorhyn	nchus mykiss (rainbow trout): > 100 mg/l / 96 h	
		Test substance:	: Structurally similar substance	
		Method: OECD	TG 203	
Toxicity in aquatic inverte	ebrates	EC50 Daphnia	magna (Water flea): > 100 mg/l / 48 h	
	Test substance: Structurally similar substance		: Structurally similar substance	
		Method: OECD	Test Guideline 202	
Toxicity to algae		EC50 Pseudoki	rchneriella subcapitata (green algae): > 100	
		mg/l / 72 h		
		Test substance: Structurally similar substance		
		Method: OECD	TG 201	
Toxicity to bacteria		EC 20 local activated sludge: 203 mg/l / 3 h		
		Test substance: Structurally similar substance		
		Method: OECD TG 209		
Persistence and degrae	dability			
Biodegradability		Exposure time:	28 d	
		Result: 24,7 % Not readily biodegradable.		
		Method: OECD	TG 301 B	
Bioaccumulative poten	tial			
low				
Mobility in soil				
Adsorption on the floor: I	ow.			
Results of PBT and vP	/B assessment			
Not a PBT, vPvB substa	nce as per the crit	eria of the REAC	CH Regulation.	
Other adverse effects				
The data we have at our	disposal do not no	ecessitate identif	ication concerning environmental hazard.	

SECTION 13:Disposal considerations

Waste treatment methods

Product:

With respect to local regulations, e.g. dispose of to suitable waste incineration plant.



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Uncleaned packaging

Do not reuse empty containers and dispose of in accordance with the regulations issued by the appropriate local authorities.

If there is product residue in the emptied container, follow directions for handling on the container's label. Incorrect disposal or reuse of this container is illegal and can be dangerous.

Other countries: observe the national regulations.

Waste Key Number

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:Transport Information

Not dangerous according to transport regulations.

14.1. UN number:	
14.2. UN proper shipping name:	
14.3. Transport hazard class(es):	
14.4. Packing group:	
14.5. Environmental hazards:	
14.6 Special precautions for user:	No

SECTION 15:Regulatory Information

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

Major Accident Hazard Legislation Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. listing: not applicable

Chemical Safety Assessment

A substance safety assessment was carried out for this product.

SECTION 16:Other Information

Relevant H phrases from chapter 3

H225:	Highly flammable liquid and vapor.
H301:	Toxic if swallowed.
H311:	Toxic in contact with skin.



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H315:	Causes s	kin irritation.
H318:	Causes serious eye damage.	
H331:	Toxic if inhaled.	
H370:	Causes damage to organs.	
Further information		
It must be recognized the	nat 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.

