### SAFETY DATA SHEET (EC 1907/2006) SiSiB® PC1100

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

Product Identifier	
Product Name:	SiSiB® PC1100
Chemical Name:	3-Aminopropyl)triethoxysilane
CAS-No.:	919-30-2
EC-No.:	213-048-4
Relevant identified uses of the su	bstance or mixture and uses advised against
Relevant applications identified	Laboratory chemicals, Manufacture of substances
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	•••••••••••••••••••••••••••••••••••••••	
Classification according to REC	GULATION (EC) No 1272/2008	3[EU-GHS/CLP]
Acute toxicity, Oral	Category 4	H302
Skin corrosion	Category 1B	H314
Skin sensitization	Category 1	H317
For the full text of the H-Statemer	nts mentioned in this Section, s	ee Section 16.
Classification according to EU	Directives 67/548/EEC or 199	9/45/EC
Xn, C, Xi		
Harmful, Corrosive, Irritant R22, F	R34, R43	
For the full text of the R-phrases r	mentioned in this Section, see	Section 16.
Label elements		
Labelling according Regulation	i (EC) No 1272/2008 [CLP]	
Pictogram		



Signal word Hazard statement(s) H302

Danger

Harmful if swallowed.



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H314	Causes seve	re skin burns and eye damage.
H317	May cause an allergic skin reaction.	
Precautionary statement(s):		
P280	Wear protec protection.	tive gloves/ protective clothing/ eye protection/ face
P305 + P351 + P338		Rinse cautiously with water for several minutes. ntact lenses, if present and easy to do. Continue ri
P310	Immediately	call a POISON CENTER or doctor/ physician.
Supplemental Hazard State	ments	
none		
Other hazards		
None		

### **SECTION 3: Composition/information on ingredients**

Substances	
Synonyms	3-Triethoxysilylpropylamine APTES
Formula	C <sub>9</sub> H <sub>23</sub> NO <sub>3</sub> Si
Molecular Weight	221.37 g/mol
CAS-No.	919-30-2
EC-No.	213-048-4

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

Component	Classification	Concentration
3-Aminopropyltriethoxysilane		
CAS-No. 919-30-2 EC-No. 213-048-4	Acute Tox. 4; Skin Corr. 1B; Skin Sens. 1; H302, H314, H317	<= 100 %

#### Hazardous ingredients according to Directive 1999/45/EC

Component	Classification	Concentration		
3-Aminopropyltriethoxysilane				
CAS-No. 919-30-2				
EC-No. 213-048-4	Xn, R22 - R34 - R43	<= 100 %		

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16

### **SECTION 4: First aid measures**

### Description of first aid measures General advice



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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 contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with 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 2.2) 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, nitrogen oxides (NOx), silicon oxides

### Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### **Further information**

Under fire conditions, material may decompose to form flammable and/or explosive mixtures in air. Use water spray to cool unopened containers.

### **SECTION 6: Accidental release measures**

### Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. 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.

Methods and materials for containment and cleaning up



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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). Keep in suitable, closed containers for disposal.

**Reference to other sections** 

For disposal see section 13.

### **SECTION 7: Handling and storage**

### Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

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. Moisture sensitive. Storage class (TRGS 510): Combustible, corrosive hazardous materials

### 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

Tightly fitting safety goggles. Faceshield (8-inch minimum). 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.



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Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

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

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

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

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**

Complete suit protecting against chemicals, 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.

### **SECTION 9: Physical and Chemical Properties**

### Information on basic physical and chemical properties

Appearance	Form: liquid, clear
Color	colorless
Odor	no data available
Odor Threshold	no data available
рН	no data available
Melting point/freezing point	no data available
Initial boiling point and boiling range	217 °C at 1,013 hPa - lit.
Flash point:	93 °C - closed cup
Evaporation rate	no data available
Flammability (solid, gas)	no data available

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Upper/lower flammability		Upper explosion	ı limit: 4.5 %(V)
or explosive limits		Lower explosion	limit: 0.8 %(V) Vapor pressure:
Vapor pressure		< 13 hPa at 100	°C 133 hPa at 155 °C
Vapor density:		7.64 - (Air = 1.0)	)
Relative density		0.946 g/cm3 at 2	25 °C
Water solubility:		no data available	e
Partition coefficient: n-octar	nol/water	log Pow: 1.7 at 2	20 °C
Auto-ignition temperature		270 °C	
Decomposition temperature	)	no data available	e
Viscosity		no data available	e
Explosive properties		no data available	e
Oxidizing properties		no data available	e
Other safety information			
Relative vapor density 7.64	- (Air = 1.0)		

### **SECTION 10: Stability And Reactivity**

### Reactivity

no data available

**Chemical stability** 

May decompose on exposure to moist air or water. Stable under recommended storage conditions.

### Possibility of hazardous reactions

- no data available
- **Conditions to avoid**
- Heat, flames and sparks
- Incompatible materials
- Strong oxidizing agents, Acids

### 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 - male - 1,780 mg/kg LC50 Inhalation - Rat - male - 6 h - > 5 ppm (OECD Test Guideline 403) LC50 Inhalation - Rat - female - 6 h - > 16 ppm (OECD Test Guideline 403) LD50 Dermal - Rabbit - 3.8 g/kg



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Skin corrosion/irrita	ation	
Skin - Rabbit		
Result: Causes burns	s 1 h	
(OECD Test Guidelin		
Serious eye damage	,	
Eyes - Rabbit		
(OECD Test Guidelin	e 405)	
Remarks: Severe eye	,	
Respiratory or skin		
Buehler Test - Guine		
May cause sensitizat		
(OECD Test Guidelin	-	
Germ cell mutageni	city	
Hamster	•	
ovary		
Result: negative		
Mutagenicity (micron	ucleus test)	
Mouse - male and fer	male	
Result: negative		
Carcinogenicity		
IARC: No component	t of this product present at lev	rels greater than or equal to 0.1% is identified as
probable, possible or	confirmed human carcinoger	by IARC.
Reproductive toxici	ty	
No data available		
Specific target orga	n toxicity - single exposure	
no data available		
Specific target orga	n toxicity - repeated exposu	ıre
no data available		
Aspiration hazard		
no data available		
Additional Information	ion	
Repeated dose toxici	ty - Rat - male and female - C	Dral - No observed adverse effect level - 200 mg/kg -
Lowest observed adv	verse effect level - 600 mg/kg	
Repeated dose toxici	ty - Rabbit - male and female	- Dermal - No observed adverse effect level - 84 mg/k
RTECS: TX2100000		
Material is extremely	y destructive to tissue of the n	nucous membranes and upper respiratory tract, eyes,
and skin., spasm, infl	ammation and edema of the l	bronchi, pneumonitis, pulmonary edema, burning
sensation, Cough, wh	neezing, laryngitis, Shortness	of breath, Headache, Nausea, Vomiting
To the best of our kr	nowledge the chemical phys	ical, and toxicological properties have not been

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.



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Liver - Irregularities - Based on Human Evidence

### **SECTION 12: Ecological Effects**

### Toxicity

Toxicity to fish semi-static test LC50 - Danio rerio (zebra fish) - > 934 mg/l - 96 h (OECD Test Guideline 203) Toxicity to daphnia and other aquatic invertebrates Immobilization EC50 - Daphnia magna (Water flea) - 331 mg/l - 48 h (OECD Test Guideline 202) Toxicity to algae static test EC50 - Desmodesmus subspicatus (green algae) - > 1,000 mg/l - 72 h Toxicity to bacteria EC50 - Pseudomonas putida - 43 mg/l - 5.75 h Persistence and degradability Biodegradability aerobic - Exposure time 28 d Result: 67 % - Not biodegradable **Bioaccumulative potential Bioaccumulation** Cyprinus carpio (Carp) - 5 mg/l Bioconcentration factor (BCF): 3.4 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

no data available

### **SECTION 13:Disposal considerations**

### Waste treatment methods

### Product:

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company

### Contaminated packaging

Dispose of as unused product.



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SECTION 14:Tr	SECTION 14:Transport Information				
UN number					
ADR/RID: 2735		IMDG: 2735	IATA: 2735		
UN proper sh	ipping name				
ADR/RID:	ADR/RID: AMINES, LIQUID, CORROSIVE, N.O.S.				
	(3-Aminopropyltriethoxysilane)				
IMDG:	AMINES, LIQUID, CORROSIVE, N.O.S.				
	(3-Aminopropyltriethoxysilane)				
IATA:	Amines, liquid, corrosive, n.o.s. (3-Aminopropyltriethoxysilane)				
Transport haz	Transport hazard class(es)				
ADR/RID: 8		8 IMDG: 8	IATA: 8		
Packing grou	р				
ADR/RID: II		IMDG: II	IATA: II		
Environmental hazards					
ADR/RID: no		IMDG Marine Pollutant: no	IATA: no		
Special precautions for user					
no data availal	ble				

### **SECTION 15:Regulatory Information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. Safety, health and environmental regulations/legislation specific for the substance or mixture no data available 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.

Acute Tox.	Acute toxicity
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
Skin Corr.	Skin corrosion
Skin Sens.	Skin sensitization
Full text of R-phrases referred to under	sections 2 and 3
Xn	Harmful



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R22	Harmful if swallowed.			
R34	Causes	Causes burns.		
R43	May cause sensitization by skin contact.			
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.

