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

Product Name: SiSiB® PC1220  
 Chemical Name: Aminoethylaminopropylmethyldimethoxysilane

**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 & 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
Skin Sensitization	Sub-category 1A	H317
Serious eye damage	Category 1	H318

**Label elements****Labeling according Regulation (EC) No 1272/2008**

Statutory basis EU-CLP as per Regulation (EU) No. 1272/2008

Symbol(s)



Signal word Danger

Hazard statement(s)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.

Precautionary statement(s): Prevention

P280 Wear protective gloves/protective clothing/eye protection

Precautionary statement: Reaction

P302 + P352	IF ON SKIN: Wash with plenty of water/ soap.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes.

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Remove contact lenses, if present and easy to do. Continue rinsing.

P310

Immediately call a POISON 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-(dimethoxymethylsilyl)propyl]ethylenediamine**

CAS-No.	3069-29-2	EC-No.	221-336-6		
Skin irritation				Category 2	H315
Serious eye damage				Category 1	H318
Skin Sensitization				Sub-category 1A	H317

**Methanol** <= 0.5%

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 - single exposure				Category 1	H370
Texts of H phrases, see in Chapter 16					

**Mixtures**

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### 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**

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

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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.

Allergic reactions cannot be excluded.

Treatment of allergic reaction if necessary.

**SECTION 5: Firefighting measures****Extinguishing media****Suitable extinguishing media:**

Water spray, foam, Carbon dioxide (CO<sub>2</sub>), dry powder

**Unsuitable extinguishing media:**

High volume water jet

**Special hazards arising from the substance or mixture**

Standard procedure for chemical fires.

**Advice for firefighters**

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

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

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

In case of fire: wear a self contained respiratory apparatus

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

Use personal protective equipment.

Avoid contact with the skin and the eyes.

**Environmental precautions**

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

**Methods and material 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)

**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**

Provide good ventilation or extraction.

**Conditions for safe storage, including any incompatibilities****Advice on protection against fire and explosion**

Take precautionary measures against static charges, keep away from sources of ignition.

**Storage**

Keep containers tightly closed in a cool, well-ventilated place.

Protect from moisture.

**Specific end use(s)**

No further information available.

Applications; see Section 1.

**SECTION 8: Exposure Controls/Personal Protection****Control parameters****Methanol**

CAS-No.

67-56-1

EC-No. 200-659-6

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Control parameters	Skin designation: (EU ELV) Can be absorbed through the skin.	
Control parameters	200 ppm	Time Weighted Average (TWA): (EU ELV)
	260 mg/m <sup>3</sup>	
	Indicative	

### Exposure controls

#### Engineering measures

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 (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)

##### Skin and body protection

When handling larger quantities: chemical protective suit, disposable protective clothing, acid-proof (Solvent-resistant)

##### Hygiene measures

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

Remove immediately all contaminated clothing.

Wash contaminated clothing before re-use.

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**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.

Use protective clothing / face shield if necessary.

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: Yellow
Physical state	liquid (20 °C) (1013 hPa)
Odour	Amine-like
Odour threshold:	not determined
pH	10.6 (10 g/l) (20 °C)
Melting point/range	not determined
Boiling point/range	50 °C (9 hPa)
Flash point	90 °C
Evaporation rate	not determined
Lower explosion limit	not determined
Upper explosion limit	not determined
Vapor pressure	3 hPa (20 °C)
Density	0.98 g/cm <sup>3</sup> (20 °C)
Water solubility	not miscible decomposition by hydrolysis
Partition coefficient: n-octanol/water	not determined
Thermal decomposition	> 340 °C
Viscosity, dynamic	7 mPa.s (20 °C)
Explosiveness	not explosive
<b>Other information</b>	
Ignition temperature	280 °C
Other information	Vapors can form explosive mixtures with air.

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

No dangerous reaction known under conditions of normal use.

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

Possibility of hazardous reactions

Exothermic reaction with: acids

**Conditions to avoid**

Protect from moisture.

**Incompatible materials**

Acids

**Hazardous decomposition products**

Methanol in case of hydrolysis.

**SECTION 11: Toxicological Information****Information on toxicological effects****Acute oral toxicity**

LD50 Rat: > 2000 mg/kg

Assessment: The substance or mixture has no acute oral toxicity

**Acute inhalation toxicity**

LC50 Rat: > 5.2 mg/l / dust/mist

Assessment: The substance or mixture has no acute inhalation toxicity

**Acute dermal toxicity**

LD50 Rabbit: > 15520 mg/kg

**Skin irritation**

Rabbit

Skin irritation

**Eye irritation**

Rabbit

Risk of serious damage to eyes.

**Sensitization**

Magnusson & Kligman Guinea pig: May cause sensitization by skin contact.

**Repeated dose toxicity**

Oral Rat

NOAEL: >= 500 mg/kg

Test substance: Structurally similar substance

**Assessment of STOT single exposure**

No evidence for hazardous properties

**Assessment of STOT repeat exposure**

No evidence for hazardous properties

**Risk of aspiration toxicity**

No evidence of aspiration toxicity

**Gentoxicity in vitro**

Ames test Salmonella typhimurium negative

Test substance: Structurally similar substance

Gene mutation Chinese hamster negative

Test substance: Structurally similar substance

**Gentoxicity in vivo**

Micronucleus test Mouse intraperitoneal negative

Test substance: Structurally similar substance

**Carcinogenicity**

No evidence that cancer may be caused.

**Toxicity to reproduction**

Screening for reproductive/developmental toxicity Oral Rat

NOAEL (No Observed Adverse Effect Level) of parents:  $\geq 500$  mg/kg

NOAEL F1:  $\geq 500$  mg/kg

Test substance: Structurally similar substance

**Teratogenicity**

Oral Rat

NOAEL (No Observed Adverse Effect Level) teratogenesis:  $\geq 500$  mg/kg

NOAEL maternal (No Observed Adverse Effect Level):  $\geq 500$  mg/kg

Test substance: Structurally similar substance

**SECTION 12: Ecological Effects****Toxicity**

Toxicity to fish

LC50 Danio rerio (zebra fish): 597 mg/l / 96 h

Test substance: Structurally similar substance

Toxicity in aquatic

EC50 Daphnia magna (Water flea):  $> 100$  mg/l / 48 h

invertebrates

Toxicity to algae

EC50 Pseudokirchneriella subcapitata: 8.8 mg/l / 72 h

Test substance: Structurally similar substance



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**Persistence and degradability**

Biodegradability

Exposure time: 28 d

Result: 39 % Not readily biodegradable.

Test substance: Structurally similar substance

**Bioaccumulative potential**

Bioaccumulation low

**Mobility in soil**

Mobility Adsorption on the floor: low.

**Results of PBT and vPvB assessment**

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

**Other adverse effects**

Further Information

The data we have at our disposal do not necessitate identification 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.

**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****UN-Number**

ADR/RID: -

IMDG: -

IATA: -

**UN proper shipping name**

ADR/RID:

Not dangerous goods

IMDG:

Not dangerous goods

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IATA: Not dangerous goods

**Transport hazard class(es)**

ADR/RID: - IMDG: - IATA: -

**Packaging group**

ADR/RID: - IMDG: - IATA: -

**Environmental hazards**

ADR/RID: no IMDG Marine pollutant: no IATA: no

**Special precautions for users**

No data available

## 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

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.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H331: Toxic if inhaled.

H370: Causes damage to organs.

### 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.