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

Product Identifier

Product Name: SiSiB® PC1120
 Chemical Name: 3-Aminopropylmethyldiethoxysilane
 CAS-No.: 3179-76-8
 EC-No.: 221-660-8

Relevant identified uses of the substance or mixture and uses advised against

Relevant applications identified For industrial use
 Coupling agent
 Crosslinking agents
 Surface modifier

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 Sensitization Category 1B H314
 Serious eye damage Category 1 H318

Label elements

Labeling as per (EU) 1272/2008)

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



Signal word Danger
 Hazard statement H314 May cause an allergic skin reaction.

Precautionary statement Prevention: P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

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P280	Wear protective gloves/protective clothing/eye protection.
Precautionary statement Reaction:	
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
Precautionary statement (Storage):	
P405	Store locked up.
Precautionary statement (Disposal):	
P501	Dispose of contents/container in accordance with local regulation.

Other hazards

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

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

Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No.1272/2008

3-(diethoxymethylsilyl)propylamine

CAS-No.	3179-76-8	
EC-No.	221-660-8	
Formula	C ₈ H ₂₁ NO ₂ Si	
Skin Sensitization	Category 1B	H314
Serious eye damage	Category 1	H318
Texts of H phrases, see in Chapter 16		

SECTION 4: First aid measures**Description of first aid measures**

Take off all contaminated clothing immediately.

Inhalation:

If aerosol or mists are formed:

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Move victims into fresh air.

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.

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:

Do NOT induce vomiting.

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:

None known

Indication of any immediate medical attention and special treatment needed

Therapy as for chemical burn.

If substance has been swallowed:

Early endoscopy in order to assess mucosa lesions in the oesophagus and stomach which may appear.

If necessary, suck away leftover substance.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media: Water spray
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 (NO_x)

Advice for firefighters

Special protective equipment 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.

Ensure adequate ventilation.

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

Application, processing: Provide good ventilation or extraction.

Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion

Normal measures for preventive fire protection.

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

Other information

No substance-specific limiting value being known.

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Exposure controls**Engineering measures**

Provide adequate ventilation.

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 \geq 480 min

Glove material for example, Fluorinated rubber (Viton)

Material thickness 0.4 mm

Break through time \geq 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

Suitable protective clothing - Use disposable clothing if appropriate.

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.

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

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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:	colourless to yellowish
Physical state	liquid (20 °C) (1013 hPa)
Odor:	amine-like
Odor Threshold:	not determined
pH:	11 (20 g/l)(20°C)
Melting point/range	< -180 °C (1013 hPa) Method: OECD Test Guideline 102
Boiling point/range	ca. 202 °C (1013 hPa) Method: DIN 51 751
Flash point:	88 ⁰ C
Method	DIN EN ISO 2719 (Pensky-Martens, Closed Cup)
Evaporation rate	not determined
Lower explosion limit	not determined
Upper explosion limit	not determined
Vapor pressure:	3 hPa (55 °C)
Density:	0,92 g/cm ³ (20 °C) Method;DIN 51757
Water solubility:	not miscible decomposition by hydrolysis
Partition coefficient n-octanol/water:	log Pow: 2,5 (20 °C) Method: QSAR-Method
Thermal decomposition:	not determined
Viscosity, dynamic :	2 mPa.s (20 °C) Method: DIN 53 015
Explosiveness:	not explosive
Other information	
Ignition temperature	265 °C
Method:	DIN 51 794

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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

Exothermic reaction with: acids

Conditions to avoid

Protect from moisture.

Incompatible materials

Acids

Hazardous decomposition products

Methanol in case of hydrolysis.

Alcohol formed by hydrolysis lowers the flash point of the product.

SECTION 11: Toxicological information

Information on toxicological effects

Acute oral toxicity	LD50 Rat: > 2000 mg/kg
Acute inhalation toxicity	No data available
Acute dermal toxicity	LD50 Rat: > 2000 mg/kg
Skin irritation	Rabbit Causes burns.
Eye irritation	Rabbit Corrosive.
Test substance:	Structurally similar substance
Sensitization	No data available
Repeated dose toxicity	200 mg/kg (OECD TG 408)
Assessment of STOT single exposure	No data available
Assessment of STOT repeat exposure	No data available
Risk of aspiration toxicity	No data available
Gentoxicity in vitro	No data available
Toxicity to reproduction	>= 600 mg/kg (OECD TG 414)

SECTION 12: Ecological information

Toxicity

Toxicity to fish LC50 Danio rerio (zebra fish): > 934 mg/l / 96 h

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Toxicity in aquatic
Invertebrates
Test substance: Structurally similar substance
Method: OECD TG 203
EC50 Daphnia magna (Water flea): 331 mg/l / 48 h

Toxicity to algae
Test substance: Structurally similar substance
Method: OECD TG 202
EC50 Desmodesmus subspicatus (green algae):
> 1000 mg/l / 72 h

Persistence and degradability

Biodegradability
Exposure time: 28 d
Result: 67 % Not readily biodegradable.
Test substance: Structurally similar substance
Method: (DOC; Die Away test - 79/831/EEC part C.4-A)

Bio-accumulative potential

Bioaccumulation
not bioaccumulative
log Pow: see chapter 9

Mobility in soil

Mobility
Adsorption on the floor: low.

Results of PBT and vPvB assessment

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

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.

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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: Transportation information

Transport on land (ADR/RID/GGVSEB)

UN number: UN 3267
 UN proper shipping name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (3-Aminopropyl-methyl-diethoxysilane)
 Transport hazard class(es): 8
 Packing group: II
 Environmental hazards: -
 Special precautions for user: Yes
 ADR: Tunnel Restriction Code: (E)

Inland waterway transport (ADN/GGVSEB (Germany))

UN number: UN 3267
 UN proper shipping name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (3-Aminopropyl-methyl-diethoxysilane)
 Transport hazard class(es): 8
 Packing group: II
 Environmental hazards: -
 Special precautions for user: No

Air transport ICAO-TI/IATA-DGR

UN number: UN 3267
 UN proper shipping name: Corrosive liquid, basic, organic, n.o.s. (3-Aminopropyl-methyldiethoxysilane)
 Transport hazard class(es): 8
 Packing group: II
 Environmental hazards: --
 Special precautions for user: Yes
 IATA-C: ERG-Code 8L
 IATA-P: ERG-Code 8L

Sea transport IMDG-Code/GGVSee (Germany)

UN number: UN 3267
 UN proper shipping name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.(3-Aminopropyl-methyl-diethoxysilane)
 Transport hazard class(es): 8
 Packing group: II
 Environmental hazards: --
 Special precautions for user: Yes

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EmS: F-A,S-B

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:
for transport approval see regulatory information

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

No substance-related safety assessment is necessary / has been conducted for this product.

SECTION 16: Other information

Relevant H phrases from chapter 3

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

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.