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.

	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

-

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.

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 (CO2), 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.

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

Control parameters	Skin designation: (EU ELV) Can be absorbed through the skin.	
Control parameters	200 ppm 260 mg/m3 Indicative	Time Weighted Average (TWA): (EU ELV)

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.

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/cm3 (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
Other information	
Ignition temperature	280 °C
Other information	Vapors can form explosive mixtures with air.

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: >= 500 mg/kg
NOAEL F1: >= 500 mg/kg
Test substance: Structurally similar substance
Teratogenicity
Oral Rat
NOAEL (No Observed Adverse Effect Level) teratogenesis: >= 500 mg/kg
NOAEL maternal (No Observed Adverse Effect Level): >= 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

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

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.