

Version 5.1R	Page 1 / 12	Revision Date 20.02.2020
--------------	-------------	--------------------------

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

Product Identifier

Product Name: SiSiB® PC1230

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 corrosion/irritation, Category 1B H314

Serious eye damage/eye irritation, Category 1 H318

Full text of H statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]



Hazard pictograms (CLP)

Signal word (CLP)

Danger

Hazard statements (CLP)

H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP)

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P260 - Do not breathe vapors

P264 - Wash hands thoroughly after handling.

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.

Version 5.1R	Page 2 / 12	Revision Date 20.02.2020
--------------	-------------	--------------------------

Continue rinsing.

P310 - Immediately call a POISON CENTER or doctor/physician

Other hazards

Other hazards not contributing to the classification

Additional ethanol may be formed by reaction with moisture and water. The hydrolysis product of this compound is ethanol. Overexposure to ethanol by skin absorption, inhalation or ingestion may have a narcotic effect (headache, nausea, drowsiness). Ethanol is metabolized to acetaldehyde and acetic acid which in large quantities result in metabolic acidosis, CNS depression and death due to respiratory arrest. The US OSHA PEL (TWA) for ethanol is 1000 ppm. This product contains ethanol which is classified as a carcinogen by IARC in alcoholic beverages.

SECTION 3: Composition/information on ingredients

Substances

Substance type Mono-constituent

CAS-No. 70240-34-5

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
N-(2-Aminoethyl)-3-aminopropyl methyldiethoxysilane	(CAS-No.) 70240-34-5 (EC-No.) 274-494-3	95 - 100	Skin Corr. 1B, H314 Eye Dam. 1, H318

Full text of H-statements: see section 16

Mixtures

Not applicable

SECTION 4: First aid measures

Description of first aid measures

First-aid measures general

Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label.

If inhaled

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.

In case of skin contact

Wash with plenty of soap and water. Get medical advice/attention.

In case of eye contact

Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

If swallowed

Version 5.1R

Page 3 / 12

Revision Date 20.02.2020

Never give anything by mouth to an unconscious person. Get medical advice/attention.

Most important symptoms and effects, both acute and delayed**Symptoms/effects**

Causes severe skin burns and eye damage.

Symptoms/injuries after inhalation

May cause irritation to the respiratory tract.

Symptoms/injuries after skin contact

Causes (severe) skin burns.

Symptoms/injuries after eye contact

Causes serious eye damage.

Symptoms/injuries after ingestion

May be harmful if swallowed.

Chronic symptoms

On contact with water this compound liberates ethanol which is known to have a chronic effect on the central nervous system.

Indication of any immediate medical attention and special treatment needed

NOTE TO PHYSICIAN: This product reacts with water in the acid contents of the stomach to form ethanol.

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

Water spray. Foam. Carbon dioxide. Dry chemical.

Unsuitable extinguishing media

Do not use straight streams.

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

Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.

Advice for firefighters**Firefighting instructions**

Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.

Protection during firefighting

Do not enter fire area without proper protective equipment, including respiratory protection. Avoid all eye and skin contact and do not breathe vapor and mist.

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

Version 5.1R	Page 4 / 12	Revision Date 20.02.2020
--------------	-------------	--------------------------

For non-emergency personnel

Protective equipment Wear protective equipment as described in Section 8.
Emergency procedures Evacuate unnecessary personnel.

For emergency responders

Protective equipment Do not attempt to take action without suitable protective equipment.
Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".

Environmental precautions:

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and materials for containment and cleaning up

For containment Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or shovel spills into appropriate container for disposal.

Reference to other sections

See section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling Avoid all eye and skin contact and do not breathe vapor and mist. Provide good ventilation in process area to prevent formation of vapor.

Hygiene measures Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Storage conditions Keep container tightly closed. Store locked up.
Incompatible materials Acids. alcohols. Moisture. Oxidizing agent. Peroxides. Water.
Storage area Store in a dark area. Store in a well-ventilated place. Store away from heat.

Specific end use(s)

No data available

SECTION 8: Exposure Controls/Personal Protection

Control parameters

No additional information available

Version 5.1R

Page 5 / 12

Revision Date 20.02.2020

Exposure controls**Appropriate engineering controls**

Provide local exhaust or general room ventilation.

Personal protective equipment

Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Hand protection

Neoprene or nitrile rubber gloves

Eye protection

Chemical goggles. Contact lenses should not be worn.

Skin and body protection

Wear suitable protective clothing.

Respiratory protection

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified combination organic vapor - amine gas (brown cartridge) respirator.

SECTION 9: Physical and Chemical Properties**Information on basic physical and chemical properties**

Appearance	Form: clear liquid
Molecular mass	234.41 g/mol
Color	straw
Odor	Amine. Ammonia-like.
Odor Threshold	no data available
Refractive index	1.445
pH	no data available
Relative evaporation rate (butyl acetate=1)	< 1
Melting point	no data available
Freezing point	< 0 °C
Boiling point	108 - 110 °C @ 1.5 mm Hg
Flash point:	> 110 °C
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Flammability (solid, gas)	no data available
Vapor pressure:	< 1 mm Hg @ 75°C
Relative vapor density at 20 °C	> 1
Relative density	0.923
Solubility	Reacts with water.
Log Pow	no data available
Log Kow	no data available

Version 5.1R	Page 6 / 12	Revision Date 20.02.2020
--------------	-------------	--------------------------

Viscosity, kinematic	no data available
Viscosity, dynamic	no data available
Explosive properties	no data available
Oxidizing properties	no data available
Explosive limits	no data available

Other information

no data available

SECTION 10: Stability And Reactivity

Reactivity

no data available

Chemical stability

Stable when stored in sealed containers.

Possibility of hazardous reactions

Reacts with water and moisture in air, liberating ethanol.

Conditions to avoid

Heat. Open flame. Sparks

Incompatible materials

Acids. alcohols. Moisture. Oxidizing agent. Peroxides. Water.

Hazardous decomposition products

Ethanol. Organic acid vapors.

SECTION 11: Toxicological Information

Information on toxicological effects

Acute toxicity	Not classified
Skin corrosion/irritation	Causes severe skin burns and eye damage.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitization	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified

Potential adverse human health effects and symptoms

This compound liberates ethanol on contact with moisture. Material generates ethanol on contact with water or moisture in skin, eyes and mucous membranes and has an irritating, dehydrating effect on

Version 5.1R	Page 7 / 12	Revision Date 20.02.2020
--------------	-------------	--------------------------

overexposed tissue.

Symptoms/effects after inhalation

May cause irritation to the respiratory tract.

Symptoms/effects after skin contact

Causes (severe) skin burns.

Symptoms/effects after eye contact

Causes serious eye irritation.

Symptoms/effects after ingestion

May be harmful if swallowed.

Chronic symptoms

On contact with water this compound liberates ethanol which is known to have a chronic effect on the central nervous system.

Reason for classification

Expert judgment

SECTION 12: Ecological Effects

Toxicity

Acute aquatic toxicity

Not classified

Chronic aquatic toxicity

Not classified

Persistence and degradability

No additional information available

Bioaccumulative potential

No additional information available

Mobility in soil

No data available

Results of PBT and vPvB assessment

No additional information available

Other adverse effects

This substance may be hazardous to the environment.

SECTION 13: Disposal considerations

Waste treatment methods

Sewage disposal recommendations:

Do not dispose of waste into sewer.

Product/Packaging disposal recommendations:

Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.

Ecology - waste materials:

Avoid release to the environment.

SECTION 14: Transport Information

Version 5.1R	Page 8 / 12	Revision Date 20.02.2020
--------------	-------------	--------------------------

UN number

In accordance with ADR / RID / IMDG / IATA / ADN

UN-No. (ADR)	2735
UN-No. (IMDG)	2735
UN-No. (IATA)	2735
UN-No. (ADN)	2735
UN-No. (RID)	2735

UN proper shipping name

Proper Shipping Name (ADR)	AMINES, LIQUID, CORROSIVE, N.O.S.
Proper Shipping Name (IMDG)	AMINES, LIQUID, CORROSIVE, N.O.S.
Proper Shipping Name (IATA)	Amines, liquid, corrosive, n.o.s.
Proper Shipping Name (ADN)	AMINES, LIQUID, CORROSIVE, N.O.S.
Proper Shipping Name (RID)	AMINES, LIQUID, CORROSIVE, N.O.S.
Transport document description (ADR)	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (N-(2-AMINOETHYL)-3-AMINOPROPYLMETHYLDIETHOXY SILANE), 8, II, (E)
Transport document description (IMDG)	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (N-(2-AMINOETHYL)-3-AMINOPROPYLMETHYLDIETHOXY SILANE), 8, II
Transport document description (IATA)	UN 2735 Amines, liquid, corrosive, n.o.s. (N-(2-AMINOETHYL)-3-AMINOPROPYLMETHYLDIETHOXY SILANE), 8, II
Transport document description (ADN)	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (N-(2-AMINOETHYL)-3-AMINOPROPYLMETHYLDIETHOXY SILANE), 8, II
Transport document description (RID)	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (N-(2-AMINOETHYL)-3-AMINOPROPYLMETHYLDIETHOXY SILANE), 8, II

Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	8
----------------------------------	---

IMDG

Transport hazard class(es) (IMDG)	8
-----------------------------------	---

IATA

Transport hazard class(es) (IATA)	8
-----------------------------------	---

ADN

Transport hazard class(es) (ADN)	8
----------------------------------	---

RID

Transport hazard class(es) (RID)	8
----------------------------------	---

Packing group

Version 5.1R	Page 9 / 12	Revision Date 20.02.2020
--------------	-------------	--------------------------

Packing group (ADR)	II
Packing group (IMDG)	II
Packing group (IATA)	II
Packing group (ADN)	II
Packing group (RID)	II
Environmental hazards	
Dangerous for the environment	No
Marine pollutant	No
Other information	No supplementary information available

Special precautions for user

Overland transport

Classification code (ADR)	C7
Special provisions (ADR)	274
Limited quantities (ADR)	1I
Excepted quantities (ADR)	E2
Packing instructions (ADR)	P001, IBC02
Mixed packing provisions (ADR)	MP15
Portable tank and bulk container instructions (ADR)	T11
Portable tank and bulk container special provisions (ADR)	TP1, TP27
Tank code (ADR)	L4BN
Vehicle for tank carriage	AT
Transport category (ADR)	2
Hazard identification number (Kemler No.)	80



Orange plates

Tunnel restriction code (ADR)	E
EAC code	2X
APP code	B

Transport by sea

Special provisions (IMDG)	274
Limited quantities (IMDG)	1 L
Excepted quantities (IMDG)	E2
Packing instructions (IMDG)	P001
IBC packing instructions (IMDG)	IBC02
Tank instructions (IMDG)	T11

Version 5.1R	Page 10 / 12	Revision Date 20.02.2020
--------------	--------------	--------------------------

Tank special provisions (IMDG)	TP1, TP27
EmS-No. (Fire)	F-A
EmS-No. (Spillage)	S-B
Stowage category (IMDG)	A
Segregation (IMDG)	SG35
Properties and observations (IMDG)	Colorless to yellowish liquids or solutions with a pungent odor. Miscible with or soluble in water. When involved in a fire, evolve toxic gases. Corrosive to most metals, especially to copper and its alloys. Reacts violently with acids. Cause burns to skin, eyes and mucous membranes

Air transport

PCA Excepted quantities (IATA)	E2
PCA Limited quantities (IATA)	Y840
PCA limited quantity max net quantity (IATA)	0.5L
PCA packing instructions (IATA)	851
PCA max net quantity (IATA)	1L
CAO packing instructions (IATA)	855
CAO max net quantity (IATA)	30L
Special provisions (IATA)	A3
ERG code (IATA)	8L

Inland waterway transport

Classification code (ADN)	C7
Special provisions (ADN)	274
Limited quantities (ADN)	1 L
Excepted quantities (ADN)	E2
Carriage permitted (ADN)	T
Equipment required (ADN)	PP, EP
Number of blue cones/lights (ADN)	0

Rail transport

Classification code (RID)	C7
Special provisions (RID)	274
Limited quantities (RID)	1L
Excepted quantities (RID)	E2
Packing instructions (RID)	P001, IBC02
Mixed packing provisions (RID)	MP15
Portable tank and bulk container instructions (RID)	T11
Portable tank and bulk container special provisions (RID)	TP1, TP27
Tank codes for RID tanks (RID)	L4BN

Version 5.1R	Page 11 / 12	Revision Date 20.02.2020
--------------	--------------	--------------------------

Transport category (RID) 2
Colis express (express parcels) (RID) CE6
Hazard identification number (RID) 80

Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15:Regulatory Information

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

EU-Regulations

No REACH Annex XVII restrictions

N-(2-AMINOETHYL)-3-AMINOPROPYLMETHYLDIETHOXYSILANE is not on the REACH Candidate List

N-(2-AMINOETHYL)-3-AMINOPROPYLMETHYLDIETHOXYSILANE is not on the REACH Annex XIV List

N-(2-AMINOETHYL)-3-AMINOPROPYLMETHYLDIETHOXYSILANE is not subject to REGULATION (EU)

No 649/2012 OF THE EUROPEAN

PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

N-(2-AMINOETHYL)-3-AMINOPROPYLMETHYLDIETHOXYSILANE is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

National regulations

Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen

The substance is not listed

SZW-lijst van mutagene stoffen

The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding

The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid

The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling

The substance is not listed

Denmark

Danish National Regulations: Young people below the age of 18 years are not allowed to use the product

Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other Information**Full text of H- and EUH-statements:**

Eye Dam. 1 Serious eye damage/eye irritation, Category 1

Skin Corr. 1B Skin corrosion/irritation, Category 1B

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.