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

Product Name: SiSiB® PC5022

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]**

Serious eye damage/eye irritation, Category 2 H319

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): Warning

Hazard statements (CLP):

H319 - Causes serious eye irritation.

Precautionary statements (CLP):

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

P264 - Wash hands thoroughly after handling.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.

Other hazards

Other hazards not contributing to the classification:

The hydrolysis product of this compound is ethanol. Ethanol is metabolized to acetaldehyde and acetic

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acid which in large quantities result in metabolic acidosis, CNS depression and death due to respiratory arrest. Overexposure to ethanol by skin absorption, inhalation or ingestion may have a narcotic effect (headache, nausea, drowsiness). 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

Name

3-CHLOROPROPYLMETHYLDIETHOXYSILANE

CAS-No.

13501-76-3

EC-No.

236-828-6

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
3-Chloropropyldiethoxymethylsilane	(CAS-No.) 13501-76-3 (EC-No.) 236-828-6	95 - 100	Eye Irrit. 2, H319

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 person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.

In case of skin contact

Wash with plenty of 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

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

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

May cause irritation to the respiratory tract.

Symptoms/injuries after skin contact

May cause skin irritation.

Symptoms/injuries after eye contact

Causes eye irritation.

Symptoms/injuries after ingestion

No information available.

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. Water fog. Foam. Carbon dioxide. Dry chemical.

Unsuitable extinguishing media

Do not use straight streams.

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

Combustible liquid. 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****General measures**

Remove ignition sources. Use special care to avoid static electric charges.

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.

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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. Use only non-sparking tools.

Reference to other sections

See section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

Precautions for safe handling

Additional hazards when processed	Do not allow contact with water.
Precautions for safe handling	Avoid all eye and skin contact and do not breathe vapor and mist. Ground/bond container and receiving equipment. Provide good ventilation in process area to prevent formation of vapor. Use only non-sparking tools.
Hygiene measures	Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Conditions for safe storage, including any incompatibilities

Storage conditions	Keep container tightly closed. Keep in a cool place.
Incompatible materials	Oxidizing agent.
Storage 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

Exposure controls

Appropriate engineering controls

Provide local exhaust or general room ventilation.

Personal protective equipment

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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 organic vapor (black cartridge) respirator.

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

Appearance	Form: clear liquid
Molecular mass	210.77 g/mol
Color	colorless
Odor	characteristic
Odor Threshold	no data available
Refractive index	1.426
pH	no data available
Relative evaporation rate (butyl acetate=1)	< 1
Melting point	< 0 °C
Freezing point	no data available
Boiling point	81 - 83 °C @ 8 mm Hg
Flash point:	80 °C
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Flammability (solid, gas)	Combustible liquid
Vapor pressure:	< 5 mm Hg @ 25°C
Relative vapor density at 20 °C	> 1
Relative density	0.9744
Solubility	Insoluble in water. Reacts slowly with water.
Log Pow	no data available
Log Kow	no data available
Viscosity, kinematic	no data available
Viscosity, dynamic	no data available
Explosive properties	no data available
Oxidizing properties	no data available

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Explosive limits no data available

Other information

no data available

SECTION 10: Stability And Reactivity

Reactivity

no data available

Chemical stability

Stable

Possibility of hazardous reactions

Material decomposes slowly in contact with moist air or with water liberating ethanol.

Conditions to avoid

Heat. Open flame. Sparks

Incompatible materials

Oxidizing agent.

Hazardous decomposition products

Organic acid vapors. Silicon dioxide. Ethanol.

SECTION 11: Toxicological Information

Information on toxicological effects

Acute toxicity

Not classified

Skin corrosion/irritation Not classified

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 material slowly generates ethanol on contact with water and moisture in living tissues. Material generates ethanol on contact with water or moisture in skin, eyes and mucous membranes and has an irritating, dehydrating effect on overexposed tissue.

Symptoms/effects after inhalation May cause irritation to the respiratory tract.

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Symptoms/effects after skin contact	May cause skin irritation.
Symptoms/effects after eye contact	Causes eye irritation.
Symptoms/effects after ingestion	No information available.
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 additional information 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:

Incinerate. 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

UN number

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

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UN-No. (ADR)	Not applicable
UN-No. (IMDG)	Not applicable
UN-No. (IATA)	Not applicable
UN-No. (ADN)	Not applicable
UN-No. (RID)	Not applicable

UN proper shipping name

Proper Shipping Name (ADR)	Not applicable
Proper Shipping Name (IMDG)	Not applicable
Proper Shipping Name (IATA)	Not applicable
Proper Shipping Name (ADN)	Not applicable
Proper Shipping Name (RID)	Not applicable

Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	Not applicable
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IMDG

Transport hazard class(es) (IMDG)	Not applicable
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IATA

Transport hazard class(es) (IATA)	Not applicable
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ADN

Transport hazard class(es) (ADN)	Not applicable
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RID

Transport hazard class(es) (RID)	Not applicable
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Packing group

Packing group (ADR)	Not applicable
Packing group (IMDG)	Not applicable
Packing group (IATA)	Not applicable
Packing group (ADN)	Not applicable
Packing group (RID)	Not applicable

Environmental hazards

Dangerous for the environment No

Marine pollutant No

Other information This product is Combustible as defined by the US Department of Transportation (DOT). It is regulated for transport in the US in container > 119 gallons (450 liters). The product is not regulated for transport by the IATA, ADR/RID, ADN or the IMDG regulations.

Special precautions for user

Overland transport

No data available

Transport by sea

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No data available

Air transport

No data available

Inland waterway transport

No data available

Rail transport

No data available

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

3-CHLOROPROPYLMETHYLDIETHOXYSILANE is not on the REACH Candidate List

3-CHLOROPROPYLMETHYLDIETHOXYSILANE is not on the REACH Annex XIV List

3-CHLOROPROPYLMETHYLDIETHOXYSILANE 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.

3-CHLOROPROPYLMETHYLDIETHOXYSILANE 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

Class for fire hazard

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Class II-1

Store unit

50 liter

Classification remarks

Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed

Chemical safety assessment

No chemical safety assessment has been carried out

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

Eye Irrit. 2

Serious eye damage/eye irritation, Category 2

H319

Causes serious eye irritation.

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.