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

### Product Identifier

Product Name: SiSiB® PC5912

Chemical Name: Isooctyl triethoxysilane

### 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

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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

**Name**

ISOOCTYLTRIETHOXYSILANE

**CAS-No.**

35435-21-3

**EC-No.**

252-558-1

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Triethoxy(2,4,4-trimethylpentyl)silane	(CAS-No.) 35435-21-3 (EC-No.) 252-558-1	> 95	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 exposed or concerned: Get medical advice/attention.

**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**

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

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

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## Symptoms/injuries after inhalation

May cause irritation to the respiratory tract.

## Symptoms/injuries after skin contact

May causes skin irritation.

## Symptoms/injuries after eye contact

Causes serious eye irritation.

## Symptoms/injuries after ingestion

May be harmful if swallowed.

## Chronic symptoms

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

## Indication of any immediate medical attention and special treatment needed

No additional information available

## 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

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

Use water spray to cool exposed surfaces. Exercise caution when fighting any chemical fire.

#### 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.

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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. Fire resistant clothing and gloves must be worn.

**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

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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. Ground/bond container and receiving equipment. Use only non-sparking tools.

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. Keep in a cool place.

Incompatible materials

Moisture. Water

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

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**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 organic vapor (black cartridge) respirator.

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

Appearance	Form: clear liquid
Molecular mass	276.48 g/mol
Color	straw
Odor	mild
Odor Threshold	no data available
Refractive index	1.416
pH	no data available
Relative evaporation rate (butyl acetate=1)	no data available
Melting point	no data available
Freezing point	<-80 °C
Boiling point	236 °C
Flash point:	> 65 °C
Auto-ignition temperature	265 °C
Decomposition temperature	no data available
Flammability (solid, gas)	Combustible liquid
Vapor pressure:	1 mm Hg @ 80°C
Relative vapor density at 20 °C	> 1
Relative density	0.88
Solubility	Insoluble in water. Reacts with water.
Log Pow	no data available
Log Kow	no data available

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Viscosity, kinematic	2.1 cSt
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 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

Moisture. Water.

#### Hazardous decomposition products

Organic acid vapors. Ethanol.

## SECTION 11: Toxicological Information

#### Information on toxicological effects

#### Acute toxicity

Not classified

#### Triethoxy(2,4,4-trimethylpentyl)silane (35435-21-3)

LD50 oral rat	2000 µl/kg
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	

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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 overexposed tissue.

Symptoms/effects after inhalation

May cause irritation to the respiratory tract.

Symptoms/effects after skin contact

Causes skin irritation.

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:

May be incinerated. 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.

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## SECTION 14: Transport Information

### UN number

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

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	No supplementary information available
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### Special precautions for user

### Special transport precautions

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 or 450 liters. The product is not regulated for transport by



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the IATA, ADR/RID, ADNR or the IMDG regulations.

#### Overland transport

No data available

#### Transport by sea

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

ISOCTYLTRIETHOXYSILANE is not on the REACH Candidate List

ISOCTYLTRIETHOXYSILANE is not on the REACH Annex XIV List

#### 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

Classification remarks:

Emergency management guidelines for the storage of flammable liquids must be followed

#### Chemical safety assessment

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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.