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

Product Name: SiSiB® PC4150
 Chemical Name: METHACRYLOXYPROPYLTRIISOPROPOXYSILANE

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

No additional information available

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

Substance type	Mono-constituent
Name	METHACRYLOXYPROPYLTRIISOPROPOXYSILANE
CAS-No.	80750-05-6
EC-No.	279-538-5

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Methacryloxypropyltriisopropoxy silane	CAS-No.) 80750-05-6 (EC-No.) 279-538-5	95 - 100	Eye Irrit. 2, H319
Hydroquinone	CAS-No.) 123-31-9 (EC-No.) 204-617-8 (EC Index-No.) 604-005-00-4	< 0.05	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 2, H351 Aquatic Acute 1, H400 (M=10)

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 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.

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**

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May cause irritation to the respiratory tract.

Symptoms/injuries after skin contact

May cause skin irritation.

Symptoms/injuries after eye contact

Causes serious eye irritation.

Symptoms/injuries after ingestion

May be harmful if swallowed.

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**

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 to cool exposed surfaces.

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****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:

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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.
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

Hydroquinone (123-31-9)

Austria	MAK (mg/m ³)	2 mg/m ³ (inhalable fraction)
Austria	MAK Short time value (mg/m ³)	4 mg/m ³ (inhalable fraction)
Belgium	Limit value (mg/m ³)	1 mg/m ³
Bulgaria	OEL TWA (mg/m ³)	2 mg/m ³
France	VME (mg/m ³)	2 mg/m ³
Greece	OEL TWA (mg/m ³)	2 mg/m ³
Greece	OEL STEL (mg/m ³)	4 mg/m ³
Italy - Portugal - USA	ACGIH TWA (mg/m ³)	1 mg/m ³
ACGIH		
USA IDLH	US IDLH (mg/m ³)	50 mg/m ³
USA NIOSH	NIOSH REL (ceiling) (mg/m ³)	2 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m ³)	2 mg/m ³
Spain	VLA-ED (mg/m ³)	2 mg/m ³

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Switzerland	KZGW (mg/m ³)	2 mg/m ³ (inhalable dust)
Switzerland	MAK (mg/m ³)	2 mg/m ³ (inhalable dust)
United Kingdom	WEL TWA (mg/m ³)	0.5 mg/m ³
United Kingdom	WEL STEL (mg/m ³)	1.5 mg/m ³
Czech Republic	Expoziční limity (PEL) (mg/m ³)	2 mg/m ³
Finland	HTP-arvo (8h) (mg/m ³)	0.5 mg/m ³
Finland	HTP-arvo (15 min)	2 mg/m ³
Ireland	OEL (8 hours ref) (mg/m ³)	0.5 mg/m ³
Ireland	OEL (15 min ref) (mg/m ³)	1.5 mg/m ³ (calculated)
Lithuania	IPRV (mg/m ³)	0.5 mg/m ³
Lithuania	TPRV (mg/m ³)	1.5 mg/m ³
Norway	Grenseverdier (AN) (mg/m ³)	0.5 mg/m ³
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	1.5 mg/m ³
Poland	NDS (mg/m ³)	1 mg/m ³
Poland	NDSch (mg/m ³)	2 mg/m ³
Romania	OEL TWA (mg/m ³)	1 mg/m ³
Romania	OEL STEL (mg/m ³)	2 mg/m ³
Slovakia	NPHV (priemerná) (mg/m ³)	2 mg/m ³
Sweden	nivågränsvärde (NVG) (mg/m ³)	0.5 mg/m ³
Sweden	kortidsvärde (KTV) (mg/m ³)	1.5 mg/m ³
Canada (Quebec)	VEMP (mg/m ³)	2 mg/m ³
Australia	TWA (mg/m ³)	2 mg/m ³
Portugal	OEL TWA (mg/m ³)	2 mg/m ³
Portugal	OEL chemical category (PT)	Sensitizer, A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

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

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Appearance	Form: clear liquid
Molecular mass	332.51 g/mol
Color	straw
Odor	mild
Odor Threshold	no data available
Refractive index	1.4234
pH	no data available
Relative evaporation rate (butyl acetate=1)	no data available
Melting point	no data available
Freezing point	< 0 °C
Boiling point	> 150 °C @ 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:	< 0.1 mm Hg @ 25°C
Relative vapor density at 20 °C	> 1
Relative density	0.942
Solubility	Insoluble in water. Reacts 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
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 stored in the dark at 0-5°C. Polymerization can occur when stored at elevated temperature.

Possibility of hazardous reactions

Reacts with water and moisture in air, liberating isopropanol.

Conditions to avoid

Heat. Open flame. Sparks

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Incompatible materials

Moisture. Water.

Hazardous decomposition products

Isopropanol. Organic acid vapors.

SECTION 11: Toxicological Information

Information on toxicological effects

Acute toxicity

Not classified

Methacryloxypropyltriisopropoxysilane (80750-05-6)

LD50 oral rat > 5000 mg/kg

Hydroquinone (123-31-9)

LD50 oral rat 320 mg/kg

LD50 dermal rabbit > 2000 mg/kg 24 H

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

Hydroquinone (123-31-9)

IARC group 3 - Not classifiable

National Toxicology Program (NTP) Status 1 - Evidence of Carcinogenicity

Reproductive toxicity Not classified

STOT-single exposure Not classified

STOT-repeated exposure Not classified

Aspiration hazard Not classified

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.

Reason for classification Expert judgment

SECTION 12: Ecological Effects

Toxicity

Acute aquatic toxicity Not classified

Chronic aquatic toxicity Not classified

Hydroquinone (123-31-9)	
LC50 fish 1	0.044 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])

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EC50 Daphnia 1	0.29 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	0.044 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])

Persistence and degradability

No data available

Bioaccumulative potential

Hydroquinone (123-31-9)	
BCF fish 1	40
Log Pow	0.5

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.

Ecology - waste materials

Avoid release to the environment.

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

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Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) Not applicable

IMDG

Transport hazard class(es) (IMDG) Not applicable

IATA

Transport hazard class(es) (IATA) Not applicable

ADN

Transport hazard class(es) (ADN) Not applicable

RID

Transport hazard class(es) (RID) Not applicable

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

Special precautions for user

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

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METHACRYLOXYPROPYLTRIISOPROPOXYSILANE is not on the REACH Candidate List

METHACRYLOXYPROPYLTRIISOPROPOXYSILANE is not on the REACH Annex XIV List

% Volatiles < 5 %

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

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
Flam. Liq. 2	Flammable liquids, Category 2
H225	Highly flammable liquid and vapor.
H319	Causes serious eye irritation.
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Muta. 2	Germ cell mutagenicity, Category 2
Skin Sens. 1	Skin sensitization, Category 1
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.

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H319	Causes serious eye irritation.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.

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.