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

Product Name: SiSiB® PC7500
 Chemical Name: Vinyltris(methylethylketoximino)silane
 CAS-No.: 2224-33-1

Relevant identified uses of the substance or mixture and uses advised against

Relevant applications identified for industrial use
 Crosslinking agents

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 Irrit. 2 | Category 2 | H315 |
| Eye irritation | Category 2 | H319 |
| Skin Sensitization | Category 1 | H317 |
| Flammable liquids | Category 4 | H227 |

Label elements**Labeling as per (EU) 1272/2008)**

Statutory basis EU-CLP as per Regulation (EU) No.1272/2008
 Symbol(s)



Signal word Warning

Hazard statement

| | |
|------|--------------------------------------|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H227 | Combustible liquid. |

Precautionary statement Prevention

| | | |
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| | |
|------|--|
| P261 | Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. |
| P262 | Do not get in eyes, on skin, or on clothing. |
| P264 | Wash skin thoroughly after handling. |
| P280 | Wear protective gloves/ eye protection/ face protection. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |

Precautionary statement Reaction

| | |
|-------------|---|
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/ attention. |
| P337 + P313 | If eye irritation persists: Get medical advice/ attention. |
| P370 + P378 | In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish. |

Precautionary statement (Storage and Disposal)

| | |
|-------------|---|
| P403 + P235 | Store in a well-ventilated place. Keep cool. |
| P405 | Store locked up. |
| P501 | Dispose of contents/ container to an approved incineration plant. |

Other hazards

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

SECTION 3: Composition/information on ingredients**Substances****Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No.1272/2008**

| Chemical Name | CAS-No. | Concentration | Classification |
|---|-----------|------------------|--|
| Butan-2-one O,O',O''-(vinylsilyldiylidene)trioxime | 2224-33-1 | >= 90% - <= 100% | H317, 1B, Skin.sens. H318, 1, Eye Dam. H373, 2, STOT RE |
| 2-Butanone, oxime | 96-29-7 | >= 0.1% - < 1% | H312, 4 ,Acute Tox. , dermal H318, 1, Eye Dam. H317, 1, Skin.sens. H351, 2, Carc. |

Texts of H phrases, see in Chapter 16

SECTION 4: First aid measures**Description of first aid measures****General advice:**

Remove soiled or soaked clothing immediately.

Inhalation:

Ensure supply of fresh air.

In the event of symptoms seek medical advice.

Skin contact

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In case of contact with skin wash off with soap and water.

In the event of symptoms seek medical advice.

Eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

Ingestion

Thoroughly clean the mouth with water.

In the event of symptoms seek medical advice.

Most important symptoms and effects, both acute and delayed

Symptoms: risk of serious damage to eyes

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures**Extinguishing media**

Suitable extinguishing media: Foam
 Carbon dioxide (CO₂)
 Dry powder

Unsuitable extinguishing media: water

Special hazards arising from the substance or mixture

In the event of fire the following can be released:

Carbon dioxide, carbon monoxide

Nitrogen oxides (NO_x)

Under certain conditions of combustion traces of other toxic substances cannot be excluded

Advice for firefighters

Do not inhale explosion and/or combustion gases.

Use self-contained breathing apparatus.

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

Use personal protective equipment.

Ensure adequate ventilation.

Environmental precautions

Do not allow entrance in sewage water, soil stretches of water, groundwater, and 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.

SECTION 7: Handling and storage

Precautions for safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary).

Remove soiled or soaked clothing immediately. Do not eat, drink or smoke when working. Wash hands before breaks and after work. Use barrier skin cream.

Avoid contact with eyes and skin. Do not inhale gases/vapors/aerosols.

Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion

Normal measures for preventive fire protection.

Storage

Information: No special measures required.

Further information: Keep container tightly closed in a cool, well-ventilated place.

On storage conditions: Protect from atmospheric moisture and water.

Storage temperature: < 50 °C.

Storage moisture: Keep in a dry place.

Advice on common: Do not store together with alcohols.

Storage: Do not store together with amines.

Do not store together with oxidizing agents.

Do not store with acids or alkalis.

Keep away from water.

SECTION 8: Exposure controls/personal protection

Control parameters

Exposure limit(s)

| Ingredients | CAS-No. | Statutory basis/list (Update) | Value type (Form of exposure; Expressed as) | Value | Short-term |
|-------------|-----------------------------------|-------------------------------|---|----------------------|------------|
| Toluene | 108-88-3 | ACGIH (2009) | TWA | 20 ppm | |
| | | ACGIH (01 2005) | SKIN_DES | | |
| | Can be absorbed through the skin. | | | | |
| | | NIOSH (2005) | REL | 100 ppm 375 mg/m3 | |
| | | NIOSH (2005) | STEL | 150 ppm 560 mg/m3 | |
| | | OSHA Z2 (02 2006) | TWA | 200 ppm | |
| | | OSHA Z2 (02 2006) | Ceiling | 300 ppm | |
| | OSHA Z2 (02 2006) | MAX. CONC | 500 ppm | | |

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Exposure controls

Good general (mechanical) ventilation should be sufficient to control airborne levels.

Personal protective equipment**Eye protection**

Safety goggles.

Hand protection

Glove material: butyl-rubber

Break through time: 480 min

Glove thickness: 0.7 mm

Body Protection

Protective clothing

Respiratory protection

Case of formation of vapors/aerosols

Short term: filter apparatus, Filter A-P2

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

| | |
|--|---|
| Physical state | liquid (20 °C, 1,013 hPa) |
| Form | liquid |
| Color | colorless |
| Odor | pungent |
| Odor Threshold | not measured |
| PH | not measured |
| Melting point range | < -20 °C |
| Method | OECD 102 |
| Boiling range | 359 °C (1,013 hPa) |
| Method | EC Method A.2 |
| Flash point | 96 °C (Closed cup) (1.013 hPa) Method: GB/T 5208-2008 |
| Evaporation rate | not determined |
| Lower explosion limit | not determined |
| Upper explosion limit | not determined |
| Vapor pressure | 0.025 Pa |
| Method | OECD 104 |
| Relative vapor density | not measured |
| Relative density | not measured |
| Solubility (ies) | not measured |
| Water solubility | hydrolyses |
| Partition coefficient: n-octanol/water | not measured |

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| | |
|--------------------------|----------------------------------|
| Autoignition temperature | not measured |
| Thermal decomposition | > 120 °C |
| Viscosity, kinematic | 10.33 mm ² /s (25 °C) |
| Method | ASTM D 445 |
| Viscosity, dynamic | 5 - 15 mPa·s (25 °C) |
| Explosive properties | not measured |
| Oxidizing properties | not oxidizing |
| Other information | |
| Density | 0.984 g/cm ³ (20 °C) |
| Method | DIN 51757 |
| Metal corrosion | does not corrode metal |
| Ignition temperature | 310 °C (1,013 hPa) |
| Method | EC Method A.15 |

SECTION 10: Stability and reactivity

Reactivity

See section "Possibility of hazardous reactions".

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

No hazardous reactions with proper storage and handling.

Conditions to avoid

Protect from heat, humidity.

Incompatible materials

Amines
Alcohols
Alkaline
Oxidizing agents
Acids
Water

Hazardous decomposition products

None with proper storage and handling.

SECTION 11: Toxicological information

Routes of Entry: Dermal contact, eye contact, inhalation, ingestion.

Acute Toxicity

Vinyl tris(methyl ethyl ketoximo)Silane

LD50 (Oral, rat): N/A

LC50 (Inhalation, rat): N/A

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(CAS 2224-33-1)

LD50 (Dermal, rabbit): N/A

Skin corrosion/irritation

Cause skin irritation

Serious eye damage/irritation

Causes serious eye damage.

Respiratory or skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

No data available for this chemical.

Carcinogenicity

No data available for this chemical.

Reproductive toxicity

No data available for this chemical.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

No data available for this chemical.

Chronic Effects

No data available for this chemical.

Further Information

No data

SECTION 12: Ecological information**Ecotoxicology Assessment**

Acute aquatic toxicity no data available

Chronic aquatic toxicity no data available

Toxicity**Aquatotoxicity, fish**

Static test

Species Oncorhynchus mykiss (rainbow trout)

Exposure duration 96 h

EC50 > 120 mg/l

Method OECD 203

Semi-static test

Species Oryzias latipes (Japanese medaka)

Exposure duration 96 h

LC50 > 100 mg/l

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| | |
|-------------------|--|
| Method | OECD 203 |
| Test substance | hydrolysis product |
| Static test | |
| Species | Lepomis macrochirus (Bluegill sunfish) |
| Exposure duration | 96 h |
| LC50 | 48 mg/l |
| Method | US-EPA |
| Test substance | hydrolysis product |

Aquatoxicity, Invertebrates

| | |
|-------------------|----------------------------|
| Static test | |
| Species | Daphnia magna (Water flea) |
| Exposure duration | 48 h |
| EC50 | > 120 mg/l |
| Method | OECD 202 |

The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

Aquatoxicity, algae / aquatic plants

| | |
|-------------------|---------------------------------|
| Species | Pseudokirchneriella subcapitata |
| Exposure duration | 72 h |
| LC50 | 19.19 mg/l |
| Method | OECD 201 |
| Species | Pseudokirchneriella subcapitata |
| Exposure duration | 72 h |
| NOEC | 3.12 mg/l |
| Method | OECD 201 |

| | |
|-------------------|---------------------------------|
| Static test | |
| Species | Pseudokirchneriella subcapitata |
| Exposure duration | 72 h |
| EC50 | 94 mg/l |
| Method | OECD 201 |

Toxicity in Microorganisms

| | |
|-------------------|------------------|
| Species | static test |
| Species | activated sludge |
| Respiration rate | |
| Exposure duration | 3 h |
| EC50 | > 1,000 mg/l |
| Method | OECD 209 |

Chronic toxicity in fish

| | |
|-------------------|--|
| Flow-through | |
| Species | Oryzias latipes (Orange-red killifish) |
| Adult mortality | |
| Exposure duration | 14 d |

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NOEC >= 100 mg/l
 Method OECD 204
 Test substance hydrolysis product

Chronic toxicity in aquatic Invertebrates

Semi-static test
 Species Daphnia magna (Water flea)
 Reproduction
 Exposure duration 21 d
 NOEC >= 100 mg/l
 Method OECD 211
 Test substance hydrolysis product

Persistence and degradability

Photodegradation no data available
 Biological degradability 0 %
 Exposure duration 28 d
 Result Not readily biodegradable.
 Method OECD 301 A
 Test substance hydrolysis product
 Remarks: The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

Bio-accumulative potential

Species Cyprinus carpio
 Exposure duration 42 d
 < 2.5
 Method OECD 305 C
 Test substance hydrolysis product

Mobility in soil

Mobility No data available

Results of PBT and vPvB assessment

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

Other adverse effects

General Information Do not allow to enter soil, waterways or waste water canal.

SECTION 13: Disposal considerations**Waste treatment methods****Product:**

In accordance with local authority regulations, take to special waste incineration plant

Contaminated packaging

Do not reuse empty containers and dispose of in accordance with the regulations issued by the

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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: Transportation information

Not dangerous according to transport regulations.

UN number --

UN proper shipping name --

Transport hazard class(es) --

Packing group --

Environmental hazards --

Special precautions for user **Yes**

For USA only: This product is not regulated in packages < 119 gallons / 450 L. In bulk packages this products is a Combustible Liquid, NA1993.

SECTION 15: Regulatory information

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation and the (M)SDS contains all information required by the Controlled Products Regulation

Canada

WHMIS CLASSIFICATION

Class D, Division 2, Subdivision B

Class B, Division 3

This product contains component(s) that are listed on the WHMIS Ingredient Disclosure List.

Benzene, methyl-108-88-3

US regulations

SARA Title III Section 311/312 Hazard Categories

Fire Hazard

Acute Health Hazard

Chronic Health Hazard

CERCLA: CAS 108-88-3: 1000 lbs

State Right to Know

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ZUSPA_RTK: No components are subject to the Pennsylvania Right to Know Act.

ZUSMA_RTK: No components are subject to the Massachusetts Right to Know Act.

ZUSNJ_RTK: No components are subject to the New Jersey Right to Know Act.

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

Toluene (CAS-No.: 108-88-3)

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

TSCA lists: TSCA 8D - Yes

HMIS Ratings

Health: 2

Flammability: 1

Reactivity: 0

Personal Protection: X

Notification status

USA (TSCA): listed / registered or exempted

GHS: control of Ebsoft

Canada (DSL): listed/registered or exempted

SECTION 16: Other information

Relevant H phrases from chapter 3

| | |
|------|--|
| H225 | Highly flammable liquid and vapor. |
| H305 | May be harmful if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H351 | Suspected of causing cancer. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

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.