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

Product Name: SiSiB® PC2520

Chemical Name: 1-[3-(Triethoxysilyl)propyl]urea (40-52% in Methanol)

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**

Flammable liquids Category 2

Serious eye damage/eye irritation Category 2

Reproductive toxicity Category 1B

Specific target organ toxicity - Single exposure [Category 1] Central nervous system

Specific target organ toxicity - Single exposure [Category 3] Respiratory tract irritation, Narcotic effects

Specific target organ toxicity - Repeated exposure [Category 1] Visual system, Central nervous system

Label elements**Pictogram(s) or Symbol(s):**

Pictogram

Signal word

Danger

Hazard statement(s)

H225

Highly flammable liquid and vapor.

H319

Causes serious eye irritation.

H360FD

May damage fertility. May damage the unborn child.

H370

Causes damage to organs: Central nervous system

H372

Causes damage to organs through prolonged or repeated exposure:
Visual system Central nervous system

H335

May cause respiratory irritation.

H336

May cause drowsiness or dizziness.

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Precautionary statement(s)

P260	Do not breathe mist, vapors or spray.
P280	Wear protective gloves, protective clothing, face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340+P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.
P305+P351+P338+P337+P313	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
P308+P311	If exposed or concerned: Call a POISON CENTER or doctor.

Other hazards**Results of PBT and vPvB assessment**

PBT: Not applicable

vPvB: Not applicable

SECTION 3: Composition/information on ingredients

Substance/mixture:	Mixture
Components:	1-[3-(Triethoxysilyl)propyl]urea (40-52% in Methanol)
CAS RN:	23779-32-0
Molecular Weight:	264.40
Chemical Formula:	C ₁₀ H ₂₄ N ₂ O ₄ Si
Hazardous ingredient(s):	1-[3-(Triethoxysilyl)propyl]urea (40-52%) 23779-32-0 Methanol (48-60%) 67-56-1
Synonyms:	3-Ureidopropyltriethoxysilane (40-52% in Methanol), Triethoxy-3-ureidopropylsilane (40-52% in Methanol)

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

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.

In case of skin contactRemove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water.
Call a POISON CENTER or doctor/physician.

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In case of eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Call a POISON CENTER or doctor/physician.

If swallowed

Call a POISON CENTER or doctor/physician. Rinse mouth.

Symptoms/effects:

Acute: Dizziness. Redness. Drowsiness.

Delayed: May have effects on the respiratory tract.

Indication of any immediate medical attention:

Not available.

Notes to physician:

No data available

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

Dry chemical, foam, water spray, carbon dioxide.

Special hazards arising from the substance or mixture

Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.

Hazardous combustion products

These products include: Carbon oxides Nitrogen oxides Silicates

Other specific hazards

Closed containers may explode from heat of a fire.

Advice for firefighters

Wear self-contained breathing apparatus if possible.

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

Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

Environmental precautions:

Prevent product from entering drains.

Methods and materials for containment and cleaning up:

Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

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Prevention of secondary hazards:

Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.

SECTION 7: Handling and storage**Precautions for safe handling:**

Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapor or mist. Keep away from heat/sparks/open flame/hot surfaces. -No smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling.

Use a closed system if possible. Use a ventilation, local exhaust if vapor or aerosol will be generated.

Avoid all contact!

Conditions for safe storage, including any incompatibilities**Storage conditions:**

Keep container tightly closed. Store in a cool, dark and well-ventilated place.

Store under inert gas. Protect from moisture. Store locked up.

Store away from incompatible materials such as oxidizing agents.

Moisture-sensitive

Packaging material:

Comply with laws.

SECTION 8: Exposure Controls/Personal Protection**Exposure limits:**

(Methanol)

ACGIH TLV(TWA):200 ppm (skin)

ACGIH TLV(STEL):250 ppm (skin)

OSHA PEL(TWA):200 ppm

Appropriate engineering controls:

Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust. Also install safety shower and eye bath.

Personal protective equipment**Respiratory protection:**

Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc.

Use respirators approved under appropriate government standards and follow local and national regulations.

Hand protection:

Impervious gloves.

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Eye protection:

Safety goggles. A face-shield, if the situation requires.

Skin and body protection:

Impervious protective clothing. Protective boots, if the situation requires.

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

Appearance

Form

liquid

Color

colorless

Odor

no data available

Odor Threshold

no data available

Melting point/freezing point

no data available

(Methanol) -98°C

Initial boiling point and boiling range

no data available

(Methanol) 64°C

Decomposition temperature

No data available

Relative density

1,17 g/cm³ at 25 °C

Kinematic viscosity

No data available

Log Pow

no data available

(Methanol) -0.82/-0.66

Flash point

14°C (57°F)

Flammability (solid, gas)

no data available

Soluble

Alcohols

pH

no data available

Vapor pressure

no data available

Vapor density

no data available

Dynamic Viscosity

No data available

Evaporation rate (Butyl Acetate=1)

no data available

Autoignition temperature

470°C (878°F)

Flammability or explosive limits

Lower

No data available

Upper

No data available

SECTION 10: Stability And Reactivity**Reactivity**

no data available

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Chemical stability

Stable under proper conditions.

Possibility of hazardous reactions

No special reactivity has been reported.

Conditions to avoid

Spark, Open flame, Static discharge

Incompatible materials

Oxidizing agents

Hazardous decomposition productsCarbon dioxide, Carbon monoxide, Nitrogen oxides (NO_x), Silicon oxides**SECTION 11: Toxicological Information****Information on toxicological effects****Acute toxicity**

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

Target organ(s)

Causes damage to: Visual System Central Nervous System

May cause respiratory irritation.

May cause drowsiness or dizziness.

Causes damage to organs through prolonged or repeated exposure: Visual System Central Nervous System

SECTION 12: Ecological Effects**Toxicity**

no data available

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Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

Results of PBT and vPvB assessment

no data available

Other adverse effects

no data available

SECTION 13: Disposal considerations**Disposal of product**

Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil.

Disposal of container

Dispose of as unused product. Do not re-use empty containers.

Other considerations

Observe all federal, state and local regulations when disposing of the substance.

SECTION 14: Transport Information**UN number**

ADR/RID: 1993

IMDG: 1993

IATA: 1993

UN proper shipping name

ADR/RID: FLAMMABLE LIQUID, N.O.S.

IMDG: FLAMMABLE LIQUID, N.O.S.

IATA: Flammable liquid, n.o.s.

Transport hazard class(es)

ADR/RID: 3

IMDG: 3

IATA: 3

Packing group

ADR/RID: II

IMDG: II

IATA: II

Environmental hazards

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ADR/RID: no

IMDG Marine Pollutant: no

IATA: no

Special precautions for user

no data available

SECTION 15:Regulatory Information**Toxic Substance Control Act (TSCA 8b.):**

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regulations

CERCLA Hazardous substance and Reportable Quantity:

SARA 313: Not Listed

SARA 302: Not Listed

State Regulations

State Right-to-Know

Massachusetts Not Listed

New Jersey Not Listed

Pennsylvania Not Listed

California Proposition 65: Not Listed

Other Information

NFPA Rating:

HMIS Classification:

Health: 3

Health: 3

Flammability: 3

Flammability: 3

Instability: 0

Physical: 0

International Inventories

Canada: DSL On DSL

EC-No: 245-876-7

SECTION 16:Other Information**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.