

| | | |
|--------------|------------|--------------------------|
| Version 5.1C | Page 1 / 9 | Revision Date 09.05.2018 |
|--------------|------------|--------------------------|

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

Product Identifier

| | |
|----------------|--|
| Product Name: | SiSiB® PC8704 |
| Chemical Name: | 1,1,5,5-Tetraphenyl-1,3,3,5-tetramethyltrisiloxane |
| CAS-No.: | 3982-82-9 |
| EC-No.: | 222-222-9 |

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]

| | | |
|--------------------|-------------|------|
| Skin Sensitization | Category 2 | H315 |
| Serious eye damage | Category 2 | H319 |
| STOT Sensitization | Category 3a | H335 |

Label elements

Labeling as per (EU) 1272/2008)

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



| | |
|-------------------------------------|--|
| Signal word | Danger |
| Hazard statement | H315 -May cause skin irritation. H319 -Causes serious eye irritation. H335 - May cause respiratory irritation. |
| Precautionary statement Prevention: | P264 - Wash hands thoroughly after handling. |
| Precautionary statement Reaction: | P302 + P352 - IF ON SKIN: Wash with plenty of water/ soap. |

| | | |
|--------------|------------|--------------------------|
| Version 5.1C | Page 2 / 9 | Revision Date 09.05.2018 |
|--------------|------------|--------------------------|

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313 - IF skin irritation occurs: Get medical advice / attention.

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

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

1,1,5,5-Tetraphenyl-1,3,3,5-tetramethyltrisiloxane

| | | |
|--------------------|--|------|
| Formula: | C ₂₈ H ₃₂ O ₂ Si ₃ | |
| Molecular Weight: | 484.82 g/mol | |
| CAS-No. | 3982-82-9 | |
| EC-No. | 223-620-5 | |
| Skin Sensitization | Category 2 | H315 |
| Serious eye damage | Category 2 | H319 |
| STOT toxicity | Category 3a | H335 |

SECTION 4: First aid measures

Description of first aid measures

Take off all contaminated clothing immediately.

Inhalation:

If aerosol or mists are formed:

Move victims into fresh air.

Skin contact:

Wash off immediately with plenty of water.

Consult a doctor in the event of permanent skin irritation.

Eye contact:

With eye held open, thoroughly rinse immediately with plenty of water for at least 10 minutes.

| | | |
|--------------|------------|--------------------------|
| Version 5.1C | Page 3 / 9 | Revision Date 09.05.2018 |
|--------------|------------|--------------------------|

Continue rinsing process with eye rinsing solution.
Protect unharmed eye.
Call ambulance. (Cue: caustic burn of the eyes)
Immediate further treatment in eye clinic/by eye doctor. continue rinsing eye until arrival at ophthalmic hospital.

Ingestion:

Have the mouth rinsed with water.
Only when patient fully conscious:
Have patient drink plenty of water in small sips.
Call a physician immediately.

Most important symptoms and effects, both acute and delayed

No Symptoms

Indication of any immediate medical attention and special treatment needed

If required, therapy of irritative effect.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media: Water spray
 Carbon dioxide (CO2)
 Dry powder

Unsuitable extinguishing media: high volume water jet

Special hazards arising from the substance or mixture

Standard procedure for chemical fires.

Advice for firefighters

Special protective equipment for firefighters:

Water used to extinguish fire should not enter drainage systems, soil or stretches of water.
Ensure there are sufficient retaining facilities for water used to extinguish fire.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
In case of fire: wear a self-contained respiratory apparatus

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

Environmental precautions:

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

Methods and material for containment and cleaning up

| | | |
|--------------|------------|--------------------------|
| Version 5.1C | Page 4 / 9 | Revision Date 09.05.2018 |
|--------------|------------|--------------------------|

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.

Reference to other sections

Wear personal protective equipment; see section 8.

Disposal considerations; see section 13.

SECTION 7: Handling and storage

Precautions for safe handling

Application, processing: Provide good ventilation or extraction.

Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion

Normal measures for preventive fire protection.

Storage:

Keep containers tightly closed in a cool, well-ventilated place.

Protect from moisture.

Specific end use(s)

No further information available

Applications; see Section 1.

SECTION 8: Exposure controls/personal protection

Control parameters

Other information

No substance-specific limiting value being known.

Exposure controls

Engineering measures

Provide adequate ventilation.

Personal protective equipment

Respiratory protection

In case of dusts/vapors/aerosols being formed or if the limit values like TLV are exceeded:

Use respiratory equipment with suitable filter (filter type ABEK) or wear a self-contained respiratory apparatus.

Use only respiratory protection equipment with CE-symbol including four digit test number.

The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Note time limit for wearing respiratory protective equipment.

| | | |
|--------------|------------|--------------------------|
| Version 5.1C | Page 5 / 9 | Revision Date 09.05.2018 |
|--------------|------------|--------------------------|

Hand protection

| | |
|--------------------|---|
| Glove material | for example, butyl-rubber |
| Material thickness | 0.5 mm |
| Break through time | >= 480 min |
| Glove material | for example, Fluorinated rubber (Viton) |
| Material thickness | 0.4 mm |
| Break through time | >= 480 min |

Selection of protective gloves to meet the requirements of specific workplaces.

Suitability for specific workplaces should be clarified with protective glove manufacturers.

The information is based on our own tests, references from the literature and information from glove manufacturers, or derived by analogy with similar materials.

Please observe that the daily duration of usage of a chemical protective glove is in practice far shorter due to the many influencing factors (e.g. temperature, mechanical strain on the glove material) than the permeation time determined acc. EN 374.

Eye protection

Close-fitting protective goggles (e.g. closed goggles)

Skin and body protection

Suitable protective clothing - Use disposable clothing if appropriate.

Hygiene measures

When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work.

Remove immediately all contaminated clothing.

Wash contaminated clothing before re-use.

Protective measures

Handle in accordance with good industrial hygiene and safety practice.

The personal protective equipment used must meet the requirements of directive 89/686/EEC and amendments (CE certification).

If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used.

If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used.

Do not breathe in vapors or aerosols.

Avoid contact with skin and eyes.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

| | |
|-----------------------|--|
| Formula | C ₂₈ H ₃₂ O ₂ Si ₃ |
| Molecular Weight | 484.82 |
| Chemical Name | Tetramethyltetraphenyltrisiloxane |
| Color and Appearance | Colorless to straw-colored fluid |
| Ultimate Vacuum, torr | 10 ⁻⁷ to 10 ⁻⁸ untrapped |

| | | |
|--------------|------------|--------------------------|
| Version 5.1C | Page 6 / 9 | Revision Date 09.05.2018 |
|--------------|------------|--------------------------|

| | |
|---|------------------------|
| | 10-10 to 10-11 trapped |
| Extrapolated Vapor Pressure, torr, 25°C | 2 x 10 ⁻⁸ |
| Specific Gravity at 25°C | 1.07 |
| Refractive Index at 25°C | 1.550~1.560 |
| Viscosity at 25°C | 36~44 cSt |
| Flash Point, open cup | 221°C, |
| Boiling Point, 0.5 torr | 215°C, |
| Typical Boiler Temperature | 220°C, |
| Surface Tension, dynes/cm | 37.3 |
| Heat of Vaporization, kcal/g mol | 25.5/250°C |

SECTION 10: Stability and reactivity

Reactivity

No dangerous reaction known under conditions of normal use.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

no hazardous reactions known

Conditions to avoid

no specific conditions to avoid

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

In combustion emits toxic fumes.

In combustion emits toxic fumes of organic acid vapors

In combustion emits toxic fumes of silicon dioxide.

SECTION 11: Toxicological information

Information on toxicological effects

| | |
|---------------------------|--|
| Acute oral toxicity | No data available |
| Acute inhalation toxicity | No data available |
| Acute dermal toxicity | No data available |
| Skin irritation | irritant for skin and mucous membranes |
| Eye irritation | irritant effect |
| Test substance: | Structurally similar substance |
| Sensitization | Guinea pig: May cause sensitization by skin contact. |

| | | |
|--------------|------------|--------------------------|
| Version 5.1C | Page 7 / 9 | Revision Date 09.05.2018 |
|--------------|------------|--------------------------|

| | |
|------------------------------------|--------------------------------|
| Test substance: | Structurally similar substance |
| Assessment of STOT single exposure | No data available |
| Assessment of STOT repeat exposure | No data available |
| Risk of aspiration toxicity | No data available |
| Gentoxicity in vitro | No data available |
| Toxicity to reproduction | No data available |

SECTION 12: Ecological information

Toxicity

No eco-toxicological data is available for this product.

Persistence and degradability

Biodegradability No data available

Bio-accumulative potential

Bioaccumulation No data available

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

Further Information Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

Waste treatment methods

Product:

With respect to local regulations, e.g. dispose of to suitable waste incineration plant.

Uncleaned packaging

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

| | | |
|--------------|------------|--------------------------|
| Version 5.1C | Page 8 / 9 | Revision Date 09.05.2018 |
|--------------|------------|--------------------------|

SECTION 14: Transportation information

Air (ICAO)

Road (ADR)

- 1. UN Number: --
- 2. Shipping Name: Non Hazardous
- 3. Transport hazard class(es): Sub Class :
- 4. Packing group: --
- 5. Environmental hazards: --
- 6. Special Precautions for user: --
- 7. Transport in bulk: --

Road (ADR)

- 1. UN Number: --
- 2. Shipping Name: None Hazardous
- 3. Transport hazard class(es): Sub Class :
- 4. Packing group: --
- 5. Environmental hazards: --
- 6. Special Precautions for user: --
- 7. Transport in bulk: --

Sea (IMDG)

- 1. UN Number: --
- 2. Shipping Name: Non Hazardous
- 3. Transport hazard class(es): Sub Class :
- 4. Packing group: --
- 5. Environmental hazards: --
- 6. Special Precautions for user: --
- 7. Transport in bulk: --

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Product is not subject to any additional regulations or provisions.

Chemical safety assessment

No substance-related safety assessment is necessary / has been conducted for this product.

SECTION 16: Other information

Further information

| | | |
|--------------|------------|--------------------------|
| Version 5.1C | Page 9 / 9 | Revision Date 09.05.2018 |
|--------------|------------|--------------------------|

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.