

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

**Product Identifier**

Product Name: POWSIL™-99010

**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] and amendments

H315 - Skin Corrosion/Irritation Category 2

H319 - Serious Eye Damage/Eye Irritation Category 2

**Label elements**

Hazard pictogram(s)



SIGNAL WORD

WARNING

**Hazard statement(s)**

H315 Causes skin irritation

H319 Causes serious eye irritation.

**Precautionary statements Precautions**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash all exposed external body areas thoroughly after handling.

**Precautionary statements Response**

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.

P302+P352 IF ON SKIN: Wash with plenty of water.

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

P362+P364 Take off contaminated clothing and wash it before reuse.

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**Precautionary statements Storage**

Not Applicable

**Precautionary statements Disposal**

Not Applicable

Material contains Acetic acid.

**Other hazards**

**Octamethylcyclotetrasiloxane**

Listed in the European Chemicals Agency (ECHA) Candidate List of Substances of Very High Concern for Authorisation

**Octamethylcyclotetrasiloxane** Listed in the Europe Regulation (EC) No 1907/2006 - Annex XVII (Restrictions may apply)

**Octamethylcyclotetrasiloxane**

Determined to have endocrine-disrupting properties according to Europe Regulation (EU) 528/2012, Europe Regulation (EU) 2017/2100, and Europe Regulation (EU) 2018/605

**decamethylcyclopentasiloxane**

Listed in the European Chemicals Agency (ECHA) Candidate List of Substances of Very High Concern for Authorisation

**Decamethylcyclopentasiloxane**

Listed in the Europe Regulation (EC) No 1907/2006 - Annex XVII (Restrictions may apply)

**dodecamethylcyclohexasiloxane**

Listed in the European Chemicals Agency (ECHA) Candidate List of Substances of Very High Concern for Authorisation

**dodecamethylcyclohexasiloxane** Listed in the Europe Regulation (EC) No 1907/2006 - Annex XVII (Restrictions may apply)

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

**Chemical properties**

Mixture

**Composition Information**

CAS No.	%[weight]	Name	Classification according to regulation (EC) No 1272/2008 [CLP] and amendments
71750-80-6	>99	SILOXANES AND SILICONES, DI-ME, [[[3-[(2-AMINOETHYL)AMINO]PROPYL]DIMETHOXSILYL]OXY]-TERMINATED	Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2; H315, H319
556-67-2	<0.1	Octamethylcyclotetrasiloxane	Flammable Liquids Category 3, Reproductive Toxicity Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 4; H226,

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			H361, H413
541-02-6	<0.1	Decamethylcyclopentasiloxane	Non hazardous
540-97-6	<0.1	Dodecamethylcyclohexasiloxane	Non hazardous

**SECTION 4: First aid measures**

**Description of first aid measures**

**Eye contact**

Wash out immediately with fresh running water.

Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.

Seek medical attention without delay; if pain persists or recurs seek medical attention.

Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

**Skin contact**

Immediately remove all contaminated clothing, including footwear.

Flush skin and hair with running water (and soap if available).

Seek medical attention in event of irritation.

**Inhalation**

If fumes, aerosols or combustion products are inhaled remove from contaminated area.

Other measures are usually unnecessary.

**Ingestion**

Immediately give a glass of water.

First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

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

See Section 11

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

Treat symptomatically.

**SECTION 5: Firefighting measures**

**Extinguishing media**

Water spray or fog. Foam. Dry chemical powder. BCF (where regulations permit). Carbon dioxide.

**Special hazards arising from the substance or mixture**

**Fire Incompatibility**

Avoid contamination with oxidizing agents i.e. nitrates, oxidizing acids, chlorine bleaches, pool chlorine etc. as ignition may result.

**Advice for firefighters**

**Fire Fighting**

Alert Fire Brigade and tell them location and nature of hazard.

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Wear full body protective clothing with breathing apparatus.  
Prevent, by any means available, spillage from entering drains or water course.  
Use water delivered as a fine spray to control fire and cool adjacent area.  
DO NOT approach containers suspected to be hot.  
Cool fire exposed containers with water spray from a protected location.  
If safe to do so, remove containers from path of fire.

**Fire/Explosion Hazard**

Carbon dioxide (CO<sub>2</sub>)  
Other pyrolysis products typical of burning organic material  
May emit corrosive fumes.

**SECTION 6: Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

**Minor Spills**

Clean up all spills immediately.  
Avoid breathing vapors and contact with skin and eyes.  
Control personal contact with the substance, by using protective equipment.  
Contain and absorb spill with sand, earth, inert material or vermiculite.  
Wipe up.  
Place in a suitable, labelled container for waste disposal.

**Major Spills**

Moderate hazard.  
Clear area of personnel and move upwind.  
Alert Fire Brigade and tell them location and nature of hazard.  
Wear breathing apparatus plus protective gloves.  
Prevent, by any means available, spillage from entering drains or water course.  
Stop leak if safe to do so.  
Contain spill with sand, earth or vermiculite.  
Collect recoverable product into labelled containers for recycling.  
Neutralise/decontaminate residue (see Section 13 for specific agent).  
Collect solid residues and seal in labelled drums for disposal.  
Wash area and prevent runoff into drains.  
After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.  
If contamination of drains or waterways occurs, advise emergency services.

**Measures for Preventing Secondary Contamination**

Refer to section above

**Environmental precautions:**

See section 12

## SECTION 7: Handling and storage

### Handling

#### Precautions for safe handling

Avoid all personal contact, including inhalation.

Wear protective clothing when risk of exposure occurs.

Use in a well-ventilated area.

Prevent concentration in hollows and sumps.

DO NOT enter confined spaces until atmosphere has been checked.

Avoid smoking, naked lights or ignition sources.

Avoid contact with incompatible materials.

When handling, DO NOT eat, drink or smoke.

Keep containers securely sealed when not in use.

Avoid physical damage to containers.

Always wash hands with soap and water after handling.

Work clothes should be laundered separately.

Use good occupational work practice.

Observe manufacturer's storage and handling recommendations contained within this SDS.

Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.

#### Other information

Store in original containers.

Keep containers securely sealed.

No smoking, naked lights or ignition sources.

Store in a cool, dry, well-ventilated area.

Store away from incompatible materials and foodstuff containers.

Protect containers against physical damage and check regularly for leaks.

Observe manufacturer's storage and handling recommendations contained within this SDS.

#### Conditions for safe storage, including any incompatibilities

##### Suitable container

Metal can, plastic tank or drum

Packaging as recommended by manufacturer.

Check all containers are clearly labelled and free from leaks.

##### Storage incompatibility

Avoid reaction with oxidizing agents

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

**Control parameters**

Ingredient	DNELs Exposure Pattern Worker	PNECs Compartment
Octamethylcyclotetrasiloxane	Inhalation 73 mg/m <sup>3</sup> (Systemic, Chronic) Inhalation 73 mg/m <sup>3</sup> (Local, Chronic) Inhalation 0.013 mg/m <sup>3</sup> (Systemic, Chronic) * Oral 3.7 mg/kg bw/day (Systemic, Chronic) * Inhalation 13 mg/m <sup>3</sup> (Local, Chronic) *	0.0015 mg/L (Water (Fresh)) 0.00015 mg/L (Water (Marine)) 3 mg/kg sediment dw (Sediment (Fresh Water)) 0.3 mg/kg sediment dw (Sediment (Marine)) 0.84 mg/kg soil dw (Soil) 10 mg/L (STP) 41 mg/kg food (Oral)
Decamethylcyclopentasiloxane	Inhalation 97.3 mg/m <sup>3</sup> (Systemic, Chronic) Inhalation 24.2 mg/m <sup>3</sup> (Local, Chronic) Inhalation 0.0173 mg/m <sup>3</sup> (Systemic, Chronic) * Oral 5 mg/kg bw/day (Systemic, Chronic) * Inhalation 4.3 mg/m <sup>3</sup> (Local, Chronic) *	0.0012 mg/L (Water (Fresh)) 0.00012 mg/L (Water (Marine)) 11 mg/kg sediment dw (Sediment (Fresh Water)) 1.1 mg/kg sediment dw (Sediment (Marine)) 2.54 mg/kg soil dw (Soil) 10 mg/L (STP) 16 mg/kg food (Oral)
Dodecamethylcyclohexasiloxane	Inhalation 1.22 mg/m <sup>3</sup> (Local, Chronic) Inhalation 6.1 mg/m <sup>3</sup> (Local, Acute) Inhalation 0.3 mg/m <sup>3</sup> (Local, Chronic) * Inhalation 1.5 mg/m <sup>3</sup> (Local, Acute) *	13.5 mg/kg sediment dw (Sediment (Fresh Water)) 1.35 mg/kg sediment dw (Sediment (Marine)) 66.7 mg/kg food (Oral)

\* Values for General Population

**Occupational exposure limits (OEL)**

**Ingredient data**

Not Available

**Exposure controls**

**Appropriate engineering controls**

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in specific circumstances. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant. Process controls which involve changing the

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way a job activity or process is done to reduce the risk.

**Personal protection**



**Eye/face protection**

Safety glasses with side shields.

Chemical goggles.

**Skin protection**

See Hand protection below

**Hands/feet protection**

Wear chemical protective gloves, e.g. PVC.

Wear safety footwear or safety gumboots, e.g. Rubber

**Body Protection**

See Other protection below

**Other protection**

Overalls.

P.V.C. apron.

Eye wash unit.

**Respiratory protection**

Not Available

**SECTION 9: Physical and Chemical Properties**

**Information on basic physical and chemical properties**

Appearance	Colorless to slight yellow transparent or slightly turbid viscous liquid
Odor	Sight odor
Odor threshold	No data available
pH as a solution (1%)	No data available
Melting point / freezing point (°C)	No data available
Initial boiling point and boiling range (°C)	No data available
Flash point (°C)	No data available
Flammability	Not Applicable
Upper Explosive Limit (%)	No data available
Lower Explosive Limit (%)	No data available
Explosive properties	Not explosive
Vapor pressure (kPa)	No data available

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Vapor density (Air = 1)	No data available
Relative density (Water = 1)	No data available
Solubility in water (g/L)	Miscible
Partition coefficient n-octanol / water	No data available
Auto-ignition temperature(°C)	No data available
Decomposition temperature(°C)	No data available
Critical temperature(°C)	No data available
Critical pressure(kPa)	No data available
Combustion heat	No data available
Evaporation rate	No data available
Viscosity (cP)	2000-4000
VOC(g/L)	No data available

## SECTION 10: Stability And Reactivity

### Reactivity

See section 7

### Chemical stability

Product is considered stable.

Hazardous polymerization will not occur

### Possibility of hazardous reactions

See section 7

### Conditions to avoid

See section 7

### Incompatible materials

See section 7

### Hazardous decomposition products

See section 5

## SECTION 11: Toxicological Information

### Acute oral toxicity LD50

>5000mg/kg (rat).

### Acute dermal toxicity LD50

No data available

### Acute inhalation toxicity LC50

No data available

### Skin corrosion /irritation

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Skin Corrosion/Irritation Category 2

**Eye damage/ irritation**

Serious Eye Damage/Eye Irritation Category 2

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

No data available

**Reproductive toxicity**

No data available

**STOT – single exposure**

No data available

**STOT - repeated exposure**

No data available

**Aspiration toxicity**

No data available

**Carcinogenicity assessment carcinogenicity**

No data available

**SECTION 12: Ecological Effects**

**Acute aquatic toxicity LC50**

>100 mg/L (OECD 203, 96h, Fish)

**Acute aquatic toxicity EC50**

>100mg/L (OECD 202, 48h, Daphnia)

**Acute aquatic toxicity ErC50**

>100 mg/L (OECD 201, 72h, Algae)

**Aquatic toxicity IC50**

>100 mg /L (OECD 209, 3h, Bacteria)

**Chronic toxicity to fish**

No data available

**Chronic toxicity to aquatic invertebrates**

No data available

**Degradability**

No data available

**COD**

No data available

**BOD**

No data available

**Persistence**

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No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**SECTION 13: Disposal considerations**

**Waste chemicals**

Treatment must be in accordance with applicable Federal, State/Provincial, and Local regulations.

Recycle as much as possible, try to avoid and reduce waste.

DO NOT discharge the waste into drains.

**Contaminated packing materials**

Packaging may contain residual chemicals. Treatment must be in accordance with applicable Federal, State/Provincial, and Local regulations.

Recycle or reuse of cleaned materials should be in accordance with applicable Federal, State/Provincial, and Local regulations.

**Precautions for Transport**

Attentions of operation, treatment and precautions of workers should be referred to the content of section 7 and section 8.

**SECTION 14: Transport Information**

**UN number**

ADR/RID: -

IMDG: -

IATA: -

**UN proper shipping name**

ADR/RID:

Not dangerous goods

IMDG:

Not dangerous goods

IATA:

Not dangerous goods

**Transport hazard class(es)**

ADR/RID: -

IMDG: -

IATA: -

**Packing group**

ADR/RID: -

IMDG: -

IATA: -

**Environmental hazards**

ADR/RID: no

IMDG Marine Pollutant: no

IATA: no

**Special precautions for user**

no data available

**SECTION 15:Regulatory Information**

**Safety, health and environmental regulations / legislation specific for the substance or mixture  
 SILOXANES AND SILICONES, DI-ME, [[[3-[(2-AMINOETHYL)AMINO]PROPYL]DIMETHOXY-SILYL]  
 OXY]-TERMINATED(71750-80-6)**

Not Applicable

**Octamethylcyclotetrasiloxan (556-67-2)**

Chemical Footprint Project - Chemicals of High Concern List

EU REACH Regulation (EC) No 1907/2006 - Annex XVII -Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

EU REACH Regulation (EC) No 1907/2006 - Proposals to identify Substances of Very High Concern: Annex XV reports for commenting by Interested Parties previous consultation

Europe EC Inventory Europe European Chemicals Agency (ECHA) Candidate List of Substances of Very High Concern for Authorisation

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)

European Union (EU) Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures - Annex VI

**Decamethylcyclopentasiloxane (541-02-6)**

Chemical Footprint Project - Chemicals of High Concern List

EU REACH Regulation (EC) No 1907/2006 - Annex XVII -Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

EU REACH Regulation (EC) No 1907/2006 - Proposals to identify Substances of Very High Concern: Annex XV reports for commenting by Interested Parties previous consultation

Europe EC Inventory

Europe European Chemicals Agency (ECHA) Candidate List of Substances of Very High Concern for Authorisation

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)

**Dodecamethylcyclohexasiloxane (540-97-6)**

Chemical Footprint Project - Chemicals of High Concern List

EU REACH Regulation (EC) No 1907/2006 - Annex XVII -Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

EU REACH Regulation (EC) No 1907/2006 - Proposals to identify Substances of Very High Concern: Annex XV reports for commenting by Interested Parties previous consultation

Europe EC Inventory

Europe European Chemicals Agency (ECHA) Candidate List of Substances of Very High Concern for Authorisation

European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)

**Classification of Substances and Mixtures into Water Hazard Classes**

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**Preparation is WGK 1**

Name	WGK	Score	Source
SILOXANES AND SILICONES, DI-ME, [[[3-[(2-AMINOETHYL)AMINO]PROPYL]DIMETHOXY]SILYL]OXY]-TERMINATED	non-hazardous to waters	0	Calculated
Octamethylcyclotetrasiloxane	3		From Regulation
Decamethylcyclopentasiloxane	1		From Regulation
Dodecamethylcyclohexasiloxane	1		From Regulation

**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.