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

Product Name: POWSIL™ 59185

**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****Summary of hazard in an emergency situation**

Liquid. Mixes with water. Irritating to eyes.

**Classification of hazards**

Skin Corrosion/Irritation Category 3

Acute Aquatic Hazard Category 2

**Label elements**

Pictogram

Signal word

Warning

Hazard statement(s)

H316

Causes mild skin irritation.

H401

Toxic to aquatic life.

Precautionary statement(s)

Precautions

P273

Avoid release to the environment.

Incident response

P332+P313

If skin irritation occurs: Get medical advice/attention.

**Safe storage**

Not Applicable

**Waste disposal**

P501

Dispose of contents/container in accordance with local regulations.

**Physical and Chemical Hazard**

Liquid. Mixes with water.

**Health Hazards**

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**Inhaled**

The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models).

Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting.

**Ingestion**

Ingestion of the material may be damaging to the health of the individual.

**Skin Contact**

This material can cause inflammation of the skin on contact in some persons. Open cuts, abraded or irritated skin should not be exposed to this material.

**Eye**

This material can cause eye irritation and damage in some persons.

**Environmental Hazards**

See Section 12

**Other hazards**

Cumulative effects may result following exposure.

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

Mixture

**Composition Information**

CAS No.	%[weight]	Name
519142-86-0	10.0-15.0	Quaternary modified siliocne
68937-55-3	2.0-7.0	Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated propoxylated
68131-39-5	3.0-8.0	Alkyl alcohol polyethoxylate
64-19-7	<1.0	Acetic acid
7732-18-5	Until 100	Water

**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.

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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.

**Advise for rescue team (PPE requirement for rescue personnel)**

Wear portable respiratory protective devices if get into the scene of the accident.

**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**

Carbon oxides, silicon oxides

**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.

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**

Combustible.

Slight fire hazard when exposed to heat or flame.

Heating may cause expansion or decomposition leading to violent rupture of containers.

On combustion, may emit toxic fumes of carbon monoxide (CO).

May emit acrid smoke.

Mists containing combustible materials may be explosive.

Combustion products include:

Carbon dioxide (CO<sub>2</sub>)

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Other pyrolysis products typical of burning organic material

May emit poisonous fumes.

May emit corrosive fumes.

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

Clean up all spills immediately.

Avoid contact with skin and eyes, by using protective equipment.

Collect the leakage, place in a suitable, labelled container for waste disposal.

**Major Spills**

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

Use protective equipment to avoid contact with skin and eyes.

Contain spill with sand, earth or vermiculite.

Collect recoverable product into labelled containers for recycling.

Collect residues and seal in labelled drums for disposal.

If contamination of drains or waterways occurs, advise emergency services.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

**Measures for Preventing Secondary Contamination**

Refer to section above

**Environmental precautions:**

See section 12

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

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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

## SECTION 8: Exposure Controls/Personal Protection

#### Control parameters

#### Occupational exposure limits (OEL)

##### Ingredient data

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
China Occupational Exposure Limits for Hazardous Agents in the Workplace	Acetic acid	Acetic acid	10mg/m <sup>3</sup>	20mg/m <sup>3</sup>	Not Available	Not Available

#### Emergency limits

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
Acetic acid	Acetic acid	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
Quaternary modified silocne	Not Available	Not Available
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated propoxylated	Not Available	Not Available
Alkyl alcohol polyethoxylate	Not Available	Not Available

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Acetic acid	50mg/kg	Not Available
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### 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 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 transparent liquid
Odor	Sight odor
Odor threshold	No data available

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pH as a solution (1%)	4.0-6.0
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
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 (mPa • s)	<25 cst
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

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**SECTION 11: Toxicological Information****Acute oral toxicity LD50**

&gt;5000mg/kg (rat).

**Acute dermal toxicity LD50**

No data available

**Acute inhalation toxicity LC50**

No data available

**Skin corrosion /irritation**

Skin irritation: Category 3

**Eye damage/ irritation**

No data available

**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**

&gt;1 but ≤10mg/L (OECD 203, 96h, Fish)

**Acute aquatic toxicity EC50**

&gt;1 but ≤10mg/L (OECD 202, 48h, Daphnia)

**Acute aquatic toxicity ErC50**

&gt;1 but ≤10mg/L (OECD 201, 72h, Algae)

**Aquatic toxicity IC50**

&gt;100mg /L (OECD 209, 3h, Bacteria)

**Chronic toxicity to fish**

No data available

**Chronic toxicity to aquatic invertebrates**



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No data available

**Degradability**

No data available

**COD**

No data available

**BOD**

No data available

**Persistence**

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**

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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****Quaternary modified silicone (519142-86-0)**

China Inventory of Existing Chemical Substances

**Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated propoxylated (68937-55-3)**

China Inventory of Existing Chemical Substances

**Alkyl alcohol polyethoxylate (68131-39-5)**

China Inventory of Existing Chemical Substances

**Acetic acid (64-19-7)**

China Inventory of Existing Chemical Substances

China Inventory of Hazardous Chemicals (Chinese)

China Occupational Exposure Limits for Hazardous

Agents in the Workplace

**Water (7732-18-5)**

China Inventory of Existing Chemical Substances

**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.