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

### Product Identifier

Product Name: POWSIL™-99229

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

Relevant applications identified For textile softener 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.

### Classification of hazards

#### Classification

Skin Corrosion/Irritation Category 3

Acute Aquatic Hazard Category 2

#### Label elements

#### GHS label elements

Not Applicable

#### SIGNAL WORD

WARNING

#### Hazard statement(s)

H316 Causes mild skin irritation

H401 Toxic to aquatic life

#### Precautionary statements

#### 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

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**Physical and Chemical Hazard**

Liquid. Mixes with water.

**Health Hazards**

**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**

CAS No.	%[weight]	Name
519142-86-0	15.0-20.0	Quaternary modified silicone
68937-55-3	25.0-35.0	Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated propoxylated
68131-39-5	< 4.0	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**

If this product comes in contact with the eyes:

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.

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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**

If skin contact occurs:

Immediately remove all contaminated clothing, including footwear.

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

Seek medical attention in the 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 the Poisons Information Centre or a doctor.

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

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

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

Treat symptomatically.

**SECTION 5: Firefighting measures**

**Extinguishing media**

**Fire extinguisher**

Water spray or fog.

Foam.

Dry chemical powder.

BCF (where regulations permit).

Carbon dioxide.

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

**Fire Incompatibility**

Avoid contamination with oxidising agents i.e. nitrates, oxidising 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.

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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>),

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 it in a suitable, labelled container for waste disposal.

**Major Spills**

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

Use protective equipment to avoid contact with skin and eyes

Contain spill with sand, earth or vermiculite.

Collect recoverable products 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**

**Precautions for safe handling**

**Safe handling**

Avoid all personal contact, including inhalation.

Wear protective clothing when risk of exposure occurs.

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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**

**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/m3	20mg/m3	Not Available	Not Available

**Emergency limits**

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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 silicone	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
Acetic acid	50mg/kg	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 the risk of overexposure exists, wear an 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 and 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.

#### Thermal hazards

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Not Available

**SECTION 9: Physical and Chemical Properties**

**Information on basic physical and chemical properties**

Appearance	Slight yellow transparent liquid
Odour	Slight odour
Odour threshold	No data available
pH as a solution (10%)	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
Vapour pressure (kPa)	No data available
Vapour 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)	No data available
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

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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	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	>1 but ≤10mg/L(OECD 203,96h,Fish)
Acute aquatic toxicity EC50	>1 but ≤10mg/L(OECD 202,48h,Daphnia)
Acute aquatic toxicity ErC50	>1 but ≤10mg/L(OECD 201,72h,Algae)
Aquatic toxicity IC50	>100mg /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	No data available
Bioaccumulate potential	No data available
Mobility in soil	No data available

### SECTION 13: Disposal considerations



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**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**

Do not leak, avoid water

**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, ethoxylatedpropoxylated (68937-55-3)**

China Inventory of Existing Chemical Substances

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

China Inventory of Existing Chemical Substances

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**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.