

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

**Product Identifier**

Product Name: POWSIL™-59482

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

Relevant applications identified Suitable for soft finishing of textiles

**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**

Skin Corrosion/Irritation Category 2  
Eye Irritation Category 2A

**Label elements**

Pictogram



Signal word

Warning.

Hazard statement(s):

H315

Causes skin irritation.

H319

Causes serious eye irritation.

Precautionary statement(s):

P280

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

P264

Wash all exposed external body areas thoroughly after handling.

Incident 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.

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P302+P352

IF on skin: Wash with plenty of water and soap.

P332+P313

If skin irritation occurs: Get medical advice/attention.

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.

Health Hazards Statements:

**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 Hazard**

See Section 12

**Other hazards**

Cumulative effects may result following exposure.

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

**Substances**

Chemical properties

Mixture

**Composition Information**

CAS-No	Concentration	Component
1253692-80-6	48.0-55.0%	Silicone-Polyglycol Polymer, Alkylamine-terminated
68937-55-3	<5.0%	Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated propoxylated
25322-69-4	20.0-30.0%	Poly propylene glycol
64-19-7	<1.0%	Acetic acid
7732-18-5	Until 100	Water

**SECTION 4: First aid measures**

**Description of first aid measures**

**In case of 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.

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.

**In case of 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 event of irritation.

**In case of Inhalation**

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

Other measures are usually unnecessary.

**In case of 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**

**Suitable extinguishing media**

Use water spray or fog, foam, dry chemical powder, BCF (where regulations permit) or carbon dioxide.

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

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

**Advice for firefighters**

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.

High temperature decomposition products include silicon dioxide, small amounts of formaldehyde, formic acid, acetic acid and traces of silicon polymers.

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 corrosive fumes.

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. For personal protection see section 8.

**Measures for Preventing Secondary Contamination**

Refer to section above.

**Environmental precautions:**

For disposal 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.

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

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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 oxidising agents.

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

**Control parameters**

**Occupational exposure limits (OEL)**

Ingredient data'

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

Emergency limits

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
Poly propylene gly	Poly propylene glycol	30mg/m <sup>3</sup>	330mg/m <sup>3</sup>	2000mg/m <sup>3</sup>
Acetic acid	Acetic acid	Not available	Not available	Not available

Ingredient	Original IDLH	Revised IDLH
Silicone-Polyglycol Polymer, Alkylamine-terminated	Not available	Not available
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated propoxylated	Not available	Not available

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Poly propylene glycol	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 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 protective equipment**

Protective gloves, suits, shoes, and face shields.

**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.

**Thermal hazards**

Not available.

**SECTION 9: Physical and Chemical Properties**

**Information on basic physical and chemical properties**

Appearance	Light yellow to yellow transparent liquid
Color	Light yellow to yellow
Odor	Slight odour
Odor Threshold	no data available
pH	4.0-6.0
Melting point/freezing point	no data available
Initial boiling point and boiling range	no data available

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Flash point:	no data available
Evaporation rate	no data available
Flammability (solid, gas)	Not applicable.
Upper explosive limit	no data available
Lower explosive limit	no data available
Explosive properties	Not explosive.
Vapour pressure (kPa)	no data available
Vapor density:	no data available
Relative density	no data available
Water solubility:	Miscible.
Partition coefficient: n-octanol/water	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Critical temperature	no data available
Critical pressure	no data available
Combustion heat	no data available
Viscosity	<1500
Evaporation rate	no data available
VOC	no data available

## SECTION 10: Stability And Reactivity

### Reactivity

See section 7

### Chemical stability

Product is considered stable. Hazardous polymerisation 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

### Information on toxicological effects

#### Acute toxicity

LD50 >5000 mg/kg (rat)

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LD50 no data available

LC50 no data available

**Skin corrosion/irritation**

Skin irritation: Category 2

**Serious eye damage/eye irritation**

Eye irritation: Category 2A

**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**

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

**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**



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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 packaging**

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**

**Land transport (UN)**

Not subject to dangerous goods transport control.

**Air transport (ICAO-IATA / DG)**

Not subject to dangerous goods transport control.

**Sea transport (IMDG-Code /GGVSee)**

Not subject to dangerous goods transport control.

**Transport patterns**

Sea transport、railway transport、road transport.

**Cautions during transport**

Do not leak, avoid water.

**SECTION 15: Regulatory Information**

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

no data available

**Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

**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.