

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

Product Identifier

Product Name: POWSIL™-99852

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. Mix with water.

Classification of hazards

Classification

Eye Irritation Category 2A

Skin Corrosion/Irritation Category 2

Acute Aquatic Hazard Category 2

Label elements

GHS label elements



SIGNAL WORD WARNING

Warning

Hazard statement(s)

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H401 Toxic to aquatic life

Precautionary Statements

Precautions

P273 Avoid release to the environment

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.

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.

Safe storage

Not Applicable

Waste disposal

P501

Dispose of contents/container in accordance with local regulations

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

Composition Information

| CAS No. | %[weight] | Name |
|-------------|-----------|--|
| 519142-86-0 | 15.0-20.0 | Quaternary modified silicone |
| 68937-55-3 | 20.0-25.0 | Siloxanes and Silicones, di-Me, 3-hydroxypropyl ethoxylated propylated |
| 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.

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.

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 (CO₂),

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.

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.

SECTION 8: Exposure Controls/Personal Protection

Control parameters

Occupational exposure limits (OEL)

| | | |
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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

| 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

Not Available

SECTION 9: Physical and Chemical Properties

Information on basic physical and chemical properties

| | |
|--|--|
| Appearance | Colorless to light yellow transparent viscous liquid |
| Odour | Slight odour |
| Odour threshold | No data available |
| 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 |
| 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

| | | |
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| | |
|---|---------------|
| 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 | 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

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: -

Packaging 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

Quaternary modified silicone(519142-86-0)

China Inventory of Existing Chemical Substances

Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylatedpropoxylated (68937-55-3)

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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.