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

Product Identifier

Product Name: POWSIL™-99889

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.

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

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.

Composition Information

CAS No.	%[weight]	Name
519142-86-0	15.0-20.0	Quaternary modified siliocne
68937-55-3	13.0-18.0	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.

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 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

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.

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 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

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.

Storage incompatibility

No data

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^3	20mg/m^3	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
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated propoxylated	Not Available	Not Available
Alkyl alcohol polyethoxylate	Not Available	Not Available
Acetic acid	50ppm	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 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	Slight yellow transparent 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

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

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 ≤10 mg/L (OECD 203, 96h, Fish)
Acute aquatic toxicity EC50	>1 but ≤10 mg/L (OECD 202, 48h, Daphnia)
Acute aquatic toxicity ErC50	>1 but ≤10 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	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

Land transport（UN）

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DG)

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee)

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

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

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.