

Version 7.1S

Page 1 / 10

Revision Date 15.04.2024

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

Product Identifier

Product Name: POWSIL™ 54101

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 2
Eye Irritation Category 2A

Label elements



GHS label elements

SIGNAL WORD

WARNING

Hazard statement(s)

H315

Causes skin irritation.

H319

Causes serious eye irritation

Precautionary statements

Precautions

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 and soap.

P332+P313

If skin irritation occurs: Get medical advice/attention.

P332+P313

If skin irritation occurs: Get medical advice/attention

Version 7.1S	Page 2 / 10	Revision Date 15.04.2024
--------------	-------------	--------------------------

Safe storage

Not Applicable

Waste disposal

P501

Dispose of contents/container to authorized hazardous or special waste collection point in accordance with any local regulation.

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

Ingestions 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
1253692-80-6	28.0-35.0	Silicone-Polyglycol Polymer, Alkylamine-terminated
68937-55-3	<5.0	Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated propoxylated
25322-69-4	25.0-35.0	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

Eye contact

If this product comes in contact with the eyes:

Wash out immediately with fresh running water.

Version 7.1S

Page 3 / 10

Revision Date 15.04.2024

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.

Version 7.1S

Page 4 / 10

Revision Date 15.04.2024

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 (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**

Version 7.1S	Page 5 / 10	Revision Date 15.04.2024
--------------	-------------	--------------------------

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

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	Acetic acid	Acetic acid	10mg/m ³	20mg/m ³	Not Available	Not Available

Version 7.1S	Page 6 / 10	Revision Date 15.04.2024
--------------	-------------	--------------------------

Exposure Limits for Hazardous Agents in the Workplace						
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Emergency limits

Ingredient	Material name	TEEL-1	TEEL-2	TEEL-3
Poly propylene glycol	Poly propylene glycol	30mg/m ³	330mg/m ³	2000mg/m ³
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
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 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.

Version 7.1S	Page 7 / 10	Revision Date 15.04.2024
--------------	-------------	--------------------------

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	Light yellow viscous liquid
Odor	Sight odor
Odor 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
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)	No data available
VOC(g/L)	No data available

SECTION 10: Stability And Reactivity

Reactivity

See section 7

Chemical stability

Version 7.1S

Page 8 / 10

Revision Date 15.04.2024

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 2

Eye damage/ 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

Version 7.1S

Page 9 / 10

Revision Date 15.04.2024

Acute aquatic toxicity LC50

> 100 mg/L(OECD 203, 96h, Fish)

Acute aquatic toxicity EC50

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

Acute aquatic toxicity ErC50

> 100 mg/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

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

Version 7.1S

Page 10 / 10

Revision Date 15.04.2024

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)

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

China Inventory of Existing Chemical Substances

Poly propylene glycol (25322-69-4)

China Inventory of Existing Chemical Substances

Acetic acid (64-19-7)

China Inventory of Existing Chemical Substances

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.