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

**Product Identifier**

Product Name: SiSiB® SR8604

Chemical Name: Methyl phenyl silicone resin

**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

**Classification of the substance or mixture**

**Classification (REGULATION (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567):**

Not hazardous substance or mixture.

**Label elements**

**Labelling (REGULATION (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567):**

No labeling according to GHS required.

**Other hazards**

**Risk of dust explosion**

Under certain conditions, the product can eliminate ethanol (CAS No. 64-17-5). Ethanol is classified as a physical hazard and health hazard.

The hydrolysis rate of the product, and therefore also the significance of its hazard potential, are strongly dependent on the specific conditions.

**Endocrine disrupting properties**

**Human health**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Environment**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

**Substances**

Substance/mixture: Mixture

**Component**

| Chemical Name | Registration Number | CAS Number | EC Number | Concentration | Classified according to EU CLP 1272/2008 |
|---|---|---|---|---|---|
| Methyl phenyl silicone resin | N/A | N/A | N/A | N/A | N/A |
| Chemical Name | Registration Number | CAS Number | EC Number | Concentration | Classified according to 67/548/EEC |
| Methyl phenyl silicone resin | N/A | N/A | N/A | N/A | N/A |

## SECTION 4: First aid measures

**Description of first aid measures**

**General information**

In case of accident or if you feel unwell seek medical advice (show label or SDS where possible).

**In case of eye contact**

Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.

**In case of skin contact**

Wash with plenty of water or water and soap. In the event of a visible skin change or other complaints, seek medical advice (show label or SDS where possible).

**If inhaled**

Provide fresh air.

**If swallowed**

Give several small portions of water to drink. Do not induce vomiting.

**Most important symptoms and effects, both acute and delayed**

Any relevant information can be found in other parts of this section.

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

Further toxicology information in section 11 must be observed.

## SECTION 5: Firefighting measures

**Extinguishing media**

**Suitable extinguishing media**

Water spray, foam, carbon dioxide.

**Extinguishing media which must not be used for safety reasons**

Water jet, extinguishing powder.

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

Risk of hazardous gasses or fumes in the event of fire. Exposure to combustion products may be a health hazard! Hazardous combustion products: toxic and very toxic fumes.

**Advice for firefighters**

**Special protective equipment for firefighting**

Use respiratory protection independent of recirculated air. Keep unprotected persons away.

## SECTION 6: Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

Secure the area. Wear personal protection equipment (see section 8). Keep unprotected persons away. Avoid dust formation. Do not breathe dust. Avoid contact with eyes and skin.

**Environmental precautions**

Prevent material from entering surface waters, drains or sewers and soil. Close leak if possible without risk. Cover any spilled material in accordance with regulations to prevent dispersal by wind. Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Inform authorities if substance leaks into surface waters, sewerage or ground.

**Methods and material for containment and cleaning up**

Take up mechanically and dispose of according to local/state/federal regulations. Avoid dust formation.

**Further information**

Eliminate all sources of ignition. Consider explosion protection. Observe notes under section 7.

**Reference to other sections**

Relevant information in other sections has to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

## SECTION 7: Handling and storage

**Precautions for safe handling**

Avoid dust formation. Ensure adequate ventilation. Keep away from incompatible substances in accordance with section 10. Observe information in section 8.

**Precautions against fire and explosion**

Product may release ethanol. Flammable vapors may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Take precautionary measures against dust explosion. Avoid dust formation. Observe precautionary measures against dust explosion. Remove dust deposits regularly with an explosion protected vacuum cleaner. Electrostatic discharge possible during transport and processing. Take precautionary measures against electrostatic charging. Keep away from sources of ignition and do not smoke. Ensure all parts of equipment are well earthed. Use inert gas when working with combustible and explosive liquids. Cool endangered containers with water.

**Conditions for safe storage, including any incompatibilities**

**Conditions for storage rooms and vessels**

Observe local/state/federal regulations.

**Advice for storage of incompatible materials**

Observe local/state/federal regulations.

**Further information for storage**

Store in a dry and cool place. Store container in a well-ventilated place.

**Maximum temperature allowed during storage and transportation: 30 °C**

Temperature limit to maintain product quality.

**Specific end use(s)**

No data available.

## SECTION 8: Exposure Controls/Personal Protection

**Control parameters**

**Maximum airborne concentrations at the workplace**

| Substance | Type | mg/m$^3$ | ppm | Dust fract. | Fibre/m$^3$ |
|---|---|---|---|---|---|
| Ethanol | OEL | 1920 | 1000 | | |

**Exposure controls**

Exposure in the work place limited and controlled

**General protection and hygiene measures**

Observe standard industrial hygiene practices for the handling of chemical substances. Do not breathe dust. Avoid contact with eyes and skin. Application of skin cream recommended to ensure optimum protection of skin. Do not eat, drink or smoke when handling.

**Further information for system design and engineering measures**

Observe information in section 7. Observe national regulatory requirements.

**Personal protection equipment**

**Respiratory protection**

Respirator must be worn if exposed to dust. Suitable respiratory equipment: Filtering half-face mask, according to acknowledged standards such as EN 149.

**Recommended Filter type:** FFP1 or equivalent filter, according to acknowledged standards such as EN If inhalative exposure above the occupational exposure limit cannot be excluded, adequate respiratory protection equipment must be used. Suitable respiratory equipment: Filtering half-face mask, according to acknowledged standards such as EN 149.

**Recommended Filter type:** FFP1 or equivalent filter, according to acknowledged standards such as EN Observe the equipment manufacturer's information and wear time limits for respirators.

**Eye protection**

Protective goggles, according to acknowledged standards such as EN 166, are recommended. In case of dust formation tight fitting protective goggles, according to acknowledged standards such as EN 166.

**Hand protection**

Use of protective gloves is recommended when handling the material, according to recognized standards such as EN374.

**Recommended glove types:** Protective gloves made of nitrile rubber
thickness of the material: > 0.1 mm
Breakthrough time: > 480 min

**Recommended glove types:** Protective gloves made of butyl rubber
thickness of the material: > 0.3 mm
Breakthrough time: > 480 min

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Note that, due to the numerous external influences (such as temperature), a chemically resistant protective glove in daily use may have a service life that is considerably shorter than the measured break through time.

**Skin protection**

antistatic protective clothing, according to acknowledged standards such as EN 1149 and antistatic working shoes, according to acknowledged standards such as ISO 20345 and ISO 20347.

**Exposure to the environment limited and controlled**

Prevent material from entering surface waters, drains or sewers and soil. Can be removed mechanically from waste water.

## SECTION 9: Physical and Chemical Properties

**Information on basic physical and chemical properties**

| | |
|---|---|
| Appearance | White powder solid |
| Color | White |
| Odor | None |
| pH | no data available |
| Melting point/freezing point | no data available |
| Boiling point and boiling range | no data available |
| Flash point | no data available |
| Upper/lower flammability or explosive limits | no data available |
| Vapor pressure | no data available |
| Vapor density | no data available |
| Relative density | no data available |
| Solubility | no data available |
| N-octanol/water partition coefficient | no data available |
| Spontaneous combustion temperature | no data available |
| Decomposition temperature | no data available |

| | |
|---|---|
| Viscosity | unknow (25°C, SEC, 4 cups) |
| Solids | Min.98% |
| **Other safety information** | |
| Odor threshold | unknown |
| Evaporation rate | unknown |
| Flammability (solid, gas) | non-combustible |
| Radioactivity | unknown |
| Volume density | unknown |

## SECTION 10: Stability And Reactivity

**Reactivity & Chemical stability & Possibility of hazardous reactions**

If stored and handled in accordance with standard industrial practices no hazardous reactions are known. Relevant information can possibly be found in other parts of this section.

**Conditions to avoid**

Moisture, heat, open flames, and other sources of ignition.

**Incompatible materials**

Reacts with water, basic substances and acids. The reaction takes place with the formation of ethanol.

**Hazardous decomposition products**

Ethanol by hydrolysis. Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation. Measurements have shown the formation of small amounts of benzene at temperatures above about 180 °C (356 °F).

## SECTION 11:Toxicological Information

**Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**General information**

Data derived for the product as a whole are of higher priority than data for single ingredients.

**Acute toxicity**

| Exposure routes | Result/Effect |
|---|---|
| Oral | LD50 > 2000 mg/kg<br>Neither mortality nor clinical signs of toxicity were observed with the given dose.<br>Species: Rat, Source: Conclusion by analogy |
| dermal | LD50 > 2000 mg/kg<br>Neither mortality nor clinical signs of toxicity were observed with the given dose.<br>Species: Rat, Source: Expert judgement |

**Skin corrosion/irritation**

No skin irritation (Species: Rabbit, Source: Conclusion by analogy)

Product displays good compatibility with the skin. (Species: Voluntary persons, Test system: Human skin patch test, Exposure duration: 24 h)

**Serious eye damage/eye irritation**

No eye irritation (Species: Rabbit, Source: Conclusion by analogy)

**Respiratory or skin sensitization**

| Exposure routes | Result |
|---|---|
| Skin contact | Does not cause skin sensitization. (Species: Guinea pig, Test system: Maximization Test, Method: OECD 406, Source: Conclusion by analogy) |
| Inhalation | No data available |

**Germ cell mutagenicity**

Negative (Test system: mutation assay (in vitro) / bacterial cells, Method: OECD 471, Source: Conclusion by analogy)

**Carcinogenicity**

No data available.

**Reproductive toxicity**

No data available.

**Specific target organ toxicity - single exposure**

No data available.

**Specific target organ toxicity - repeated exposure**

No data available.

**Aspiration hazard**

No data available.

**Other hazards Information**

**Endocrine disrupting properties**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Further toxicological information**

None known.

**Data on substances**

Product of hydrolysis (Ethanol): Ethanol (64-17-5) is readily absorbed at all exposure routes. Ethanol may cause irritation of eyes and mucosa, trigger dysfunction of the central nervous system and cause nausea as well as dizziness. Chronic exposure to high amounts of ethanol may cause damage to liver and central nervous system.

## SECTION 12: Ecological Effects

**Toxicity**

Evaluation on basis of physical-chemical properties: No expected damaging effects to aquatic organisms.

| Result/Effect | Species/Test system | Source |
|---|---|---|
| LL50: > 1000 mg/l (nominal)<br>The effect level is greater than the | static test Fish (96 h) | literature (Polydimethylsiloxane) |

| | | |
|---|---|---|
| maximum achievable concentration. The value refers to the water-accommodated fraction (WAF). | | |
| EC50: > 0,0001 mg/l (measured)<br>The effect level is greater than the maximum achievable concentration. The value refers to the water-accommodated fraction (WAF). | static test<br>Daphnia magna<br>(Water flea) (48 h) | literature (Polydimethylsiloxane) |
| IC50 (Growth rate): > 100000 mg/l (nominal)<br>The effect level is greater than the maximum achievable concentration. The value refers to the water-accommodated fraction (WAF). | static test<br>Skeletonema costatum<br>(marine diatom) (72 h) | literature (Polydimethylsiloxane) |
| NOEC: > 10000 mg/kg | feeding study<br>Oncorhynchus mykiss<br>(rainbow trout) (28 d) | literature (Polydimethylsiloxane) |
| NOEC (mortality): > 500 mg/kg<br>The exposure to treated sediment did not result in effects. | exposure via sediment<br>Daphnia magna<br>(Water flea) (21 d) | literature (Polydimethylsiloxane) |
| NOEC (mortality): > 500 mg/kg<br>The exposure to treated sediment did not result in effects. | exposure via sediment<br>Daphnia magna<br>(Water flea) (21 d) | literature (Polydimethylsiloxane) |
| NOEC (mortality): > 500 mg/kg<br>The exposure to treated sediment did not result in effects. | exposure via sediment<br>Daphnia magna<br>(Water flea) (21 d) | literature (Polydimethylsiloxane) |

Persistence and degradability

Polymer component: biologically not degradable. Elimination by adsorption to activated sludge.

**Data on substances**

Product of hydrolysis (Ethanol): Ethanol is readily biodegradable.

**Bioaccumulative potential**

Polymer component: No adverse effects expected.

**Mobility in soil**

Polymer component: insoluble in water.

**Results of PBT and vPvB assessment**

No data available.

**Endocrine disrupting properties**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Other adverse effects**

None known

## SECTION 13:Disposal considerations

**Waste treatment methods**

**Material**

Material that cannot be used, reprocessed or recycled should be disposed of in accordance with Federal, State, and local regulations at an approved facility. Depending on the regulations, waste treatment methods may include, e.g., landfill or incineration.

**Uncleaned packaging**

Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations. Uncleaned packaging should be treated with the same precautions as the material.

**Waste Disposal Legislation Ref.No.(EC)**

It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

## SECTION 14:Transport Information

**UN number**

ADR/RID: - IMDG: - IATA: -

**UN proper shipping name**

ADR/RID: - IMDG: - IATA: -

**Transport hazard class(es)**

ADR/RID: - IMDG: - IATA: -

**Packing group**

ADR/RID: - IMDG: - IATA: -

**Environmental hazards**

No

**Special precautions for user**

Relevant information in other sections has to be considered.

## SECTION 15:Regulatory Information

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

National and local regulations must be observed.

For information on labelling please refer to section 2 of this document.

**Control of Major Accident Hazards Regulations 2015 (COMAH)**

Not applicable

**Relevant regulations**

SI 2002/1689: CHIP Regulations 2002

SI 2002/2677: COSHH Regulations 2002

SI 1999/3242: Management of Health & Safety at Work Regulations 1999
Health & Safety at Work Act 1974
SI 1993/1643: Environmental Protection Act 1993 & Subsidiary Regulations.
Other national and local measures relating to the workplace, pollution control, environmental protection and waste control.

**Other specifications, restrictions and prohibitions**

Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable
Regulation (EU) 2019/1148 on the marketing and use of explosives precursors - ANNEX I. RESTRICTED EXPLOSIVES PRECURSORS: Not applicable
Regulation (EU) 2019/1148 on the marketing and use of explosives precursors - ANNEX II. REPORTABLE EXPLOSIVES PRECURSORS: Not applicable

**Details of international registration status**

Relevant information about individual substance inventories, where available, is given below.

**Japan**

ENCS: This product is listed in, or complies with, the substance inventory.

**New Zealand**

NZIoC: This product is listed in, or complies with, the substance inventory. (For a correct interpretation of the New Zealand status, additional information like GHS classification or Group Standard is required.)

**Australia**

AIIC: This product is listed in, or complies with, the substance inventory.

**China**

IECSC: This product is listed in, or complies with, the substance inventory.

**Canada**

DSL: This product is listed in, or complies with, the substance inventory.

**Philippines**

PICCS: This product is listed in, or complies with, the substance inventory.

**USA**

TSCA: All components of this product are listed as active or are in compliance with the substance inventory.

**Taiwan**

TCSI: This product is listed in, or complies with, the substance inventory. General note: The Taiwanese chemicals regulation requires a phase 1 registration for TCSI-listed or TCSI-compliant substances if imports to Taiwan or manufacturing in Taiwan exceed the trigger quantity of 100 kg/a (for mixtures to be calculated per each ingredient). It is the duty of the importing/manufacturing legal entity to take care of this obligation.

**European Economic Area**

REACH (Regulation (EC) No 1907/2006): General note: the registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported into the EEA by customers or

other downstream users must be fulfilled by the latter.

**South Korea**

AREC: Please approach your regular contact for more detailed information.

## 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.