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

Product Identifier

Product Name: SINOSIL™ 9019

Chemical Name: Alkoxy Silicone Sealant

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:

Not a hazardous substance or mixture.

Label elements

Labelling (REGULATION (EC) No 1272/2008:

No labeling according to GHS required.

Other hazards

Product hydrolyses under formation of methanol (CAS no. 67-56-1). Methanol is toxic by inhalation, in contact with skin and if swallowed. Methanol causes damage to organs. Methanol is highly flammable.

SECTION 3: Composition/information on ingredients

Substances

Not applicable

Mixtures

Chemical characteristics

Polydimethylsiloxane and auxiliary + crosslinker

Hazardous ingredients

Component	CAS No.	Content
Methyltrimethoxysilane	1185-55-3	< 3%
Vinyltrimethoxysilane	2768-02-7	< 1%

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.

Endocrine disrupting properties - 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 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).

After contact with the eyes

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

After contact with the skin

Wipe off excess material with cloth or paper. 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).

After inhalation

Material cannot be inhaled under normal conditions.

After swallowing

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

alcohol-resistant foam, carbon dioxide, water mist, sprinkler system, sand, extinguishing powder.

Extinguishing media which must not be used for safety reasons

water jet.

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 fire fighting

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. If material is released indicate risk of slipping. Do not walk through spilled material.

Environmental precautions:

Prevent material from entering surface waters, drains or sewers and soil. Close leak if possible without risk. Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Inform authorities if substance leaks into surface waters, sewerage or ground.

Methods and materials for containment and cleaning up

Scoop up large quantities after dusting surfaces with sand or Fuller's earth to prevent sticking. Sweep or scrape up the spilled material and place in an appropriate chemical waste container. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Apply sand or other inert granular material to improve traction.

Further information:

Exhaust vapours. 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

Ensure adequate ventilation. Must be syphoned off in situ. 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. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging. 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. Protect against moisture. Store container in a well ventilated place.

Specific end use(s)

No data available.

SECTION 8: Exposure Controls/Personal Protection

Control parameters

Maximum airborne concentrations at the workplace

Substance	Type	ppm	Dust fract.	Fibre/m^3
Ethanol	OEL	200		

Derived No-Effect Level (DNEL)

Distillates, petroleum, hydrotreated middle

Area of use:	Value:
General	A regular PNEC could not be derived.

Predicted No Effect Concentration (PNEC)

Distillates, petroleum, hydrotreated middle

Area of use:	Value:
General	A regular PNEC could not be derived.

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 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

If inhalative exposure above the occupational exposure limit cannot be excluded, adequate respiratory protection equipment must be used. Suitable respiratory equipment: Respirator with a full face mask, according to acknowledged standards such as EN 136.

Recommended Filter type: Gas filter type ABEK (certain inorganic, organic and acidic gases and vapors; ammonia/amines), according to acknowledged standards such as EN 14387 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.

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: > 0,3 mm
Breakthrough time: > 480 min
Recommended glove types: Protective gloves made of butyl rubber
thickness of the material: > 0,4 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.

Exposure to the environment limited and controlled

Prevent material from entering surface waters, drains or sewers and soil.

SECTION 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state:	Paste
Color:	Colorless and translucent
Odor:	Slight distinctive odor
pH value:	7.0
Melting point:	Not applicable
Boiling point/Range:	Not applicable
Flash point:	Exempt (Flashpoint testing is not applicable to solids, pastes, and extremely high viscosity liquids.)
Explosion limits (%):	Not applicable
Saturated vapor pressure (25°C):	Not applicable
Relative vapor density (air=1):	Not applicable
Density before curing (23°C) (g/mL):	1.15
Water solubility:	Insoluble
Ignition temperature:	>400°C
Thermal decomposition temperature:	300°C
Odor threshold (µg/kg):	No data available
Evaporation rate (g/cm^2•s):	No data available
Flammability (solid, gas):	Flame retardant grade UL94-HB
Oxidizing properties:	No data available

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

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

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

Product details

Exposure routes	Result/Effect
Oral	LD50 > 2000 mg/kg Species: Rat, Source: Conclusion by analogy
dermal	LD50 > 2000 mg/kg Species: Rat, Source: Conclusion by analogy

Data on substances

Distillates, petroleum, hydrotreated middle

Exposure routes	Result/Effect
Oral	LD50 > 5000 mg/kg Species: Rat, Method: OECD 401, Source: literature
dermal	LD50 > 3160 mg/kg Species: Rabbit, Method: OECD 402, Source: literature
by inhalation (aerosol)	LC50 > 5,266 mg/l; 4 h Species: Rat, Method: OECD 403, Source: literature

Skin corrosion/irritation

Assessment

Based on the available data a clinically relevant skin irritation hazard is not expected. Temporary symptoms of an irritation cannot be excluded if the adhesive product is removed mechanically after contact.

Product details

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

Serious eye damage/eye irritation

Assessment

Based on the available data a clinically relevant eye irritation hazard is not expected. Temporary symptoms of an irritation cannot be excluded if the adhesive product is removed mechanically after contact.

Product details

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

Respiratory or skin sensitisation

Product details

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

Data on substances

Distillates, petroleum, hydrotreated middle

Exposure routes	Result
Skin contact	Does not cause skin sensitisation. (Species: Guinea pig, Test system: Maximisation Test, Method: OECD 406, Source: literature)

Germ cell mutagenicity

Assessment

For this endpoint no toxicological test data is available for the whole product.

Carcinogenicity

Assessment

For this endpoint no toxicological test data is available for the whole product.

Reproductive toxicity

Assessment

For this endpoint no toxicological test data is available for the whole product.

Specific target organ toxicity - single exposure

Assessment

For this endpoint no toxicological test data is available for the whole product.

Specific target organ toxicity - repeated exposure

Assessment

For this endpoint no toxicological test data is available for the whole product.

Aspiration hazard

Assessment

Based on the physical-chemical properties of the product no aspiration hazard must be expected.

Data on substances

Distillates, petroleum, hydrotreated middle

Product can pose an aspiration hazard.

Information on other hazards

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 (Methanol)

Methanol (CAS 67-56-1) is well and rapidly absorbed by all routes of exposure and is toxic regardless of mode of ingestion. Methanol can irritate mucous membranes, causing nausea, vomiting, headache, dizziness, visual disturbances, blindness (irreversible optic nerve damage), acidosis, muscle spasms and coma. These effects may be delayed after exposure.

SECTION 12: Ecological Effects

Toxicity

Assessment

The environmental hazard classification of this material is concluded by data available for the ingredients and the leachable amount of biocide in simulation tests in water. No expected damaging effects to aquatic organisms.

Product details

Result/Effect	Species/Test system	Source
LC50: > 100 mg/l	Fish (96 h)	Expert judgement
EC50: > 100 mg/l	Daphnia magna (Water flea) (48 h)	Expert judgement

Persistence and degradability

Assessment

Silicone content: biologically not degradable. Separation by sedimentation.

Data on substances

Product of hydrolysis (Ethanol)

Ethanol is readily biodegradable.

Bioaccumulative potential

Assessment

Polymer component: Bioaccumulation is not expected to occur.

Mobility in soil

Assessment

Silicone content: 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

Recommendation:

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

Recommendation:

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:	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

Relevant information in other sections has to be considered.

Maritime transport in bulk according to IMO instruments

Bulk transport in tankers is not intended.

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.

Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances (Seveso III)

Not applicable

Other specifications, restrictions and prohibitions

Regulation (EC) 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

(Handbook of Existing and New Chemical Substances): This product is listed in, or complies with, the substance inventory.

New Zealand - NZIoC

(New Zealand Inventory of Chemicals): This product is listed in, or complies with, the substance inventory.

Australia - AIIC

(Australian Inventory of Industrial Chemicals): This product is listed in, or complies with, the substance inventory.

Canada - DSL

(Domestic Substance List): This product is not listed or in compliance with the substance inventory.

Philippines - PICCS

(Philippine Inventory of Chemicals and Chemical Substances): This product is not listed or in compliance with the substance inventory.

United States of America (USA) - TSCA

(Toxic Substance Control Act Chemical Substance Inventory): All components of this product are listed as active or are in compliance with the substance inventory.

Taiwan - TCSI

(Taiwan Chemical Substance Inventory): 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 (EEA) - 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 (Republic of Korea)- AREC

(Act on Registration and Evaluation of Chemicals; “K-REACH”): Please approach your regular contact for more detailed information.

Chemical safety assessment

Due to the results of the chemical safety assessment, exposure scenarios and identified uses are not of relevance for this safety data sheet.

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.