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SECTION 1: Identification of the substance/mixture and of the company**Product Identifier**

Product Name: SiSiB® STP81030

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**

Not a hazardous substance or mixture.

Label elements

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****Chemical characteristics:**

Silane-terminated polyether with reactive methoxy silane end groups that react in the presence of moisture and tin or titanate catalyst and harden to an inert material. Methanol in small quantity less than 1.0 percent is released upon cure.

Mixtures: not applicable**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).

If inhaled

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Provide fresh air.

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).

In case of eye contact

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

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

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: carbon oxides , silicon oxides , nitrogen oxides , incompletely burnt hydrocarbons , 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 contact with eyes and skin. Do not inhale gases/vapors/aerosols. 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

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Do not flush away with water. For small amounts: Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Contain larger amounts and pump up into suitable containers. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Exhaust vapors.

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. Keep away from incompatible substances in accordance with section 10.

Precautions against fire and explosion:

Product can separate methanol. 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.

Conditions for safe storage, including any incompatibilities**Conditions for storage rooms and vessels:**

Observe local/state/federal regulations.

Advice for storage of incompatible materials:

not applicable

Further information for storage:

Protect against moisture. Store in original container only. Keep container tightly closed and store in a cool, well ventilated place.

Specific end use(s)

No data available.

SECTION 8: Exposure Controls/Personal Protection**Control parameters****Maximum airborne concentrations at the workplace:**

CAS No.	Material	Type	mg/m3	ppm	Dust fract.	Fibre/m3
67-56-1	Methanol	OEL	266,0	200,0		

Exposure controls**Exposure in the work place limited and controlled****General protection and hygiene measures:**

Avoid contact with eyes and skin. Do not inhale gases/vapors/aerosols. Do not eat, drink or smoke when handling. Wash hands at the end of work and before eating.

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

Hand protection

Gloves are required at all times when handling the material.

Recommended glove types: Protective gloves made of butyl rubber
thickness of the material: > 0,3 mm

Breakthrough time: > 480 min

Recommended glove types: Protective gloves made of nitrile rubber
thickness of the material: > 0,4 mm

Breakthrough time: 10 - 30 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

After handling make sure skin is cleansed and protected.

Exposure to the environment limited and controlled

Prevent material from entering surface waters and soil.

Further information for system design and engineering measures

Observe information in section 7.

SECTION 9: Physical and Chemical Properties**Information on basic physical and chemical properties****General information:**

Physical state / form:	Viscous, thick liquid
Color:	colorless
Odor:	characteristic

Important health, safety and environmental information:

Melting point / melting range:	not applicable
Boiling point / boiling range:	not applicable
Flash point:	> 100 °C

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Auto Ignition temperature:	not applicable
Oxidizing properties:	no applicable
Lower explosion limit (LEL):	not applicable
Upper explosion limit (UEL):	not applicable
Vapor pressure:	not applicable
Density:	1,000 g/cm ³ at 23 °C, at 1013 hPa
Water solubility / miscibility:	reacts
pH-Value:	not applicable
Viscosity (dynamic):	approx. 3000 mPa.s at 25 °C

Other information

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

Incompatible materials

Reacts with: water. Reaction causes the formation of: methanol.

Hazardous decomposition products

Under the effect of humidity, water and protic agents: methanol

SECTION 11: Toxicological Information**Information on toxicological effects****Acute toxicity****Product details:**

Route of exposure	Result/Effect	Species/Test system	Source
oral	LD50: > 2000 mg/kg	rat	Conclusion by analogy
dermal	LD50: > 2000 mg/kg	rat	Conclusion by analogy

Skin corrosion/irritation**Assessment:**

No data known.

Serious eye damage / eye irritation**Assessment:**

No data known.

Respiratory or skin sensitization**Assessment:**

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Based on the available data a sensitization reaction is not expected from this product.

Product details:

Route of exposure	Result/Effect	Species/Test system	Source
dermal	not sensitizing	guinea-pig; Magnusson-Kligman	Conclusion by analogy OECD 406

Germ cell mutagenicity

Product details:

Result/Effect	Species/Test system	Source
negative	mutation assay (in vitro) bacterial cells	Conclusion by analogy OECD 471

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)

Product details:

Result/Effect	Species/Test system	Source
NOAEL: \geq 500 mg/kg Symptoms/Effect: No substance related effects.	Subacute study rat oral (gavage) 28 d; 7 d/w	Conclusion by analogy OECD 407

Aspiration hazard

Assessment:

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

Further toxicological information

Hydrolysis product / impurity: Methanol (CAS 67-56-1) is readily and rapidly absorbed at all exposure routes and is toxic by all routes. Methanol may cause irritation of the mucosa, as well as nausea, vomiting, headaches, vertigo and visual disorders, including blindness (irreversible damage to the optic nerve), acidosis, spasms, narcosis and coma. There may be a delay in the onset of these effects after exposure.

SECTION 12: Ecological Effects

Toxicity

Assessment:

No expected damaging effects to aquatic organisms. Evaluation in analogy to similar product. According to current knowledge adverse effects on water purification plants are not expected.

Product details:

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Result/Effect	Species/Test system	Source
LC50: > 100 mg/l	rainbow trout (Oncorhynchus mykiss) (96 h)	Conclusion by analogy
EC50: > 100 mg/l	Daphnia magna (48 h)	Conclusion by analogy
IC50: > 100 mg/l	Desmodesmus subspicatus (72 h)	Conclusion by analogy
EC20: > 1000 mg/l	sludge (3 h)	Conclusion by analogy

Persistence and degradability

Assessment:

Contact with water liberates methanol and silanol- and/or siloxanol-compounds. Silicone content: biologically not degradable. Elimination by adsorption to activated sludge. The product of hydrolysis (methanol) is readily biodegradable.

Product details:

Biodegradation:

Result	Test system/Method	Source
12 % / 28 d Not readily biodegradable.	no data available	Conclusion by analogy OECD 301F

Bioaccumulative potential

Assessment:

No adverse effects expected.

12.4 Mobility in soil

Assessment:

Insoluble in water.

Results of PBT and vPvB assessment

No data available.

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

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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

Land transport ADR and RID

Road ADR:

Valuation Not regulated for transport

Railway RID:

Valuation Not regulated for transport

Transport by sea IMDG-Code

Valuation Not regulated for transport

Air transport ICAO-TI/IATA-DGR

Valuation Not regulated for transport

Environmental hazards

Hazardous to the environment: no

Special precautions for user

Relevant information in other sections has to be considered.

Transport in bulk according to Annex II of MARPOL and the IBC Code

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.

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.

Chemical safety assessment

A chemical safety assessment according to (EC) regulation 1907/2006 (REACH) has not been carried out for this product.

Details of international registration status

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

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South Korea (Republic of Korea):

ECL (Existing Chemicals List):

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

Japan:

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

Australia: AICS (Australian Inventory of Chemical Substances): This product is listed in, or complies with, the substance inventory.

Canada:

DSL (Domestic Substance List): This product is listed in, or complies with, the substance inventory.

Philippines:

PICCS (Philippine Inventory of Chemicals and Chemical Substances): This product is listed in, or complies with, the substance inventory.

United States of America (USA):

TSCA (Toxic Substance Control Act Chemical Substance Inventory): This product is listed in, or complies with, the substance inventory.

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.

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.