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

Product Name: SiSiB® WR2020

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.

Classification (67/548/EEC, 1999/45/EC):

Not a hazardous substance or mixture.

Label elements**Labelling (GHS):**

No labeling according to GHS required.

Other hazards

Product can release hydrogen. Danger of oxyhydrogen gas formation with water, alcohols, acids, metallic salts, amines and alkalis.

SECTION 3: Composition/information on ingredients**Substances****Chemical characterization (substance)**

Methylhydrogenpolysiloxane

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).

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After inhalation:

Provide fresh air.

After contact with the skin:

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 contact with the eyes:

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

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**

Fires can be controlled with water spray, foam or carbon dioxide. Larger fires are best fought with alcohol-resistant aqueous film forming foam (AFFF-AR).

Extinguishing media which must not be used for safety reasons:

water jet , extinguishing powder , halones .

Special hazards arising from the substance or mixture

With the use of water-based extinguishing agents care is required because hydrogen can be released, which accumulates after extinguishing the fire in poorly ventilated or confined areas and may refire or cause an explosion. Foam carpets may also include hydrogen or flammable vapors, which can lead to surface bursts. Remove sources of ignition during cleaning and absorbing.

Advice for firefighters**Special protective equipment for fire fighting:**

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

General information:

Fires involving SiH polysiloxane materials can be difficult to extinguish under certain circumstances.

SECTION 6: Accidental release measures**Personal precautions, protective equipment and emergency procedures**

Secure the area. Wear personal protection equipment (see section 8). If material is released indicate risk of slipping.

Environmental precautions

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Prevent material from entering surface waters, drains or sewers and soil. Contain any fluid that runs out using suitable material (e.g. earth). If safe to do so, stop the leak at its source.

Methods and material for containment and cleaning up

For small amounts: Absorb with a neutral (non-acidic / non-basic) liquid binding material such as diatomaceous earth and dispose of according to government regulations. For large amounts: Liquids may be recovered using suction devices or pumps. Use only air driven or properly rated electrical equipment. Use vented recovery containers. 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:

Eliminate all sources of ignition. Material designated for disposal must be segregated from incompatible substances or materials specified in Sect. 10. Do not blend contaminated material with uncontaminated material. 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****Precautions for safe handling:**

Open and handle container with care. Ensure adequate ventilation. Keep container closed when not in use. Keep away from incompatible substances in accordance with section 10. Where possible, inert process equipment and blanket vessels, tanks and containers with nitrogen to reduce the available oxygen level.

Precautions against fire and explosion:

Product can release hydrogen. In partly emptied containers formation of explosive mixtures is possible. Keep away from sources of ignition and do not smoke. Keep away from open flames, heat and sparks. Take precautionary measures against electrostatic charging.

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

Do not store in virgin glass containers with basic surface.

Advice for storage of incompatible materials:

Do not store with: basic substances (e.g. alkalis, ammonia, amines) , oxidizing agents , strong acids .

Further information for storage:

Protect against moisture. Store in a dry and cool place. Store container in a well ventilated place.

Specific end use(s)

No data available.

SECTION 8: Exposure Controls/Personal Protection

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Control parameters**Maximum airborne concentrations at the workplace:**

CAS No.	Material	Type	mg/m3	ppm	Dust fract.	Fibre/m3
	Aerosol –					
	respirable fraction		10,0			

The aerosol limit specified is a recommendation should aerosol be formed during processing.

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

Do not eat, drink or smoke when handling. Wash hands at the end of work and before eating.

Personal protection equipment:**Respiratory protection**

not required

Hand protection

Recommendation: Protective gloves made of butyl rubber, Protective gloves coated with neoprene , PVC gloves . Gloves suitable for up to 60 minutes' use. The selection of appropriate gloves not only depends on the material, but also on other quality characteristics, and may vary depending on the manufacturer. Please observe information from your glove supplier in terms of permeability and breakthrough time.

Eye protection

protective goggles

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****General information:**

Physical state / form:	liquid
Color:	colorless
Odor:	slight

Important information about the protection of health, safety and the environment:

Property:	Value:	Method:
Melting point / melting range:	< -50 °C	
Boiling point / boiling range:	300 °C at 1013 hPa	
Flash point:	115 °C	(ISO 2719)
Flash point:	> 110 °C	(ISO 3679)
Ignition temperature:	285 °C	(DIN51794)
Lower explosion limit (LEL):	not applicable	
Upper explosion limit (UEL):	not applicable	
Vapor pressure:	< 9 hPa at 20 °C	

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Density:	1,0 g/cm ³ at 25 °C, at 1013 hPa	(DIN51757)
Water solubility / miscibility:	virtually insoluble	
pH-Value:	not applicable	
Viscosity (dynamic):	15 - 25 mPa.s at 25 °C	

Other information

According to previous experience spontaneous combustion temperature for polymer siloxane with SiH compounds is above 240 °C (464 °F). On a catalytically active surface ignition may occur at much lower temperature. This applies to porous or fibrous substances including those with alkaline surfaces, such as thermal insulation and cementaceous insulating materials. Explosion limits for released hydrogen: 4 - 75.6%(V). Re 9.2 pH Value: Product displays neutral reaction.

Thermal decomposition: stable to 100 °C

SECTION 10: Stability And Reactivity**Reactivity; Chemical stability; Possibility of hazardous reactions**

Stable under normal conditions of use. In contact with incompatible substances this material may quickly generate a large volume of flammable hydrogen gas.

Relevant information can possibly be found in other parts of this section.

Conditions to avoid

moisture. Heat, open flames, and other sources of ignition. Contact with contaminated piping or vessels or with corroded and rusty containers can increase the rate of hydrogen formation. Observe information in section 7.

Incompatible materials

Reacts violently with: acids, basic substances (e.g. alkalis, ammonia, amines). Reacts with: alcohols, water, moisture, oxidizing agents, catalyst. Reaction causes the formation of: hydrogen.

Hazardous decomposition products

hydrogen. 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 toxicological effects****Assessment:**

Based on the available data acute toxic effects are not expected after single oral exposure. Based on the available data acute toxic effects are not expected after single dermal exposure.

Product details:

Route of exposure	Result/Effect	Species/Test system	Source
Oral	LD50: > 2000 mg/kg	rat	test report
	No mortality with		

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Oral	the given dose. LD50: > 15000 mg/kg	rat	Conclusion by analogy
Dermal	LD50: > 2000 mg/kg No mortality with the given dose.	rabbit	test report

Skin corrosion/irritation**Assessment:**

Based on the available data a clinically relevant skin irritation hazard is not expected.

Product details:

Result/Effect	Species/Test system	Source
not irritating	rabbit	Conclusion by analogy

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

Based on the available data a clinically relevant eye irritation hazard is not expected.

Product details:

Result/Effect	Species/Test system	Source
not irritating	rabbit	Conclusion by analogy

Respiratory or skin sensitization**Assessment:**

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**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.

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Specific target organ toxicity (repeated exposure)**Assessment:**

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

Aspiration hazard**Assessment:**

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

SECTION 12: Ecological Effects**Toxicity****Assessment:**

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

Persistence and degradability**Assessment:**

Silicone content: biologically not degradable. Elimination by adsorption to activated sludge.

Bioaccumulative potential**Assessment:**

Bioaccumulation is not expected to occur.

Mobility in soil**Assessment:**

Polymer component: Insoluble in water. Adsorbs on soil.

Results of PBT and vPvB assessment

No data available.

Other adverse effects

none known

SECTION 13: Disposal considerations**Waste treatment methods****Material****Recommendation:**

Risk of oxyhydrogen formation upon contact with the substances mentioned in 10. Material designated for disposal must be segregated from incompatible substances or materials specified in Sect. 10. Wastes of this material should not be mixed with other wastes. Provide measures such as vented bungs to ensure pressure relief in the waste containers. 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

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Recommendation:

Containers may contain hazardous quantities of hydrogen gas. Uncleaned containers should not be reused to hold another material due to the potential for reaction between residual product and incompatible materials. 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; UN proper shipping name; Transport hazard class(es); Packing group****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

Air transport: Due to safety reasons no air transport of inner packagings > 1kg!

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

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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.

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.

People's Republic of China:

IECSC(Inventory of Existing Chemical Substances in China):

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

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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.