

Version 6.4H	Page 1 / 9	Revision Date 18.12.2023
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SECTION 1: Identification of the substance/mixture and of the company

Product Identifier

Product Name: SiSiB® WR1291
Chemical Name: Masonry Water Repellents

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

Combustible

Label elements

Pictogram(s):



Signal Word:	Warning
H-Code	Hazard Statements
H226	Flammable liquid and vapor.
P-Code	Precautionary Statements
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P243	Take precautionary measures against static discharge.
P240	Ground/bond container and receiving equipment.
P370+P378	In case of fire: Use water mist, carbon dioxide or alcohol-resistant foam to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to waste disposal.

Other hazards

Inhalation of aerosol spray may damage health.

SECTION 3: Composition/information on ingredients**Substances**

Not applicable

Mixtures

Chemical characteristics

Alkylsilicone resin with alkoxy groups + filler + auxiliary

Hazardous ingredients

EC-No.	CAS No.	Material	Content %
222-883-3	3648-18-8	Di-n-octyltindodecylate	<2

SECTION 4: First aid measures**Description of first aid measures****General information:**

Take persons to a safe place. Observe self-protection for first aid.

After contact with the eyes:

Rinse immediately with plenty of water for 10-15 minutes. Seek medical advice in case of continuous irritation.

After contact with the skin:

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

After inhalation:

Keep the patient calm. If unconscious place in stable sideways position. Protect against loss of body heat. In cases of sickness seek medical advice (show label or SDS if possible).

After swallowing:

If conscious, give several small portions of water to drink. Do not induce vomiting. Seek medical advice immediately and clearly identify substance.

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

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. Further toxicology information in section 11 must be observed.

SECTION 5: Firefighting measures

Version 6.4H

Page 3 / 9

Revision Date 18.12.2023

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, incompletely burnt hydrocarbons, 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. 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. Contain any fluid that runs out using suitable material (e.g. earth). 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. Do not flush away with water. 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. If flammable, only air driven or properly rated electrical equipment should be used. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Silicone fluids are slippery; spills are a safety hazard. Apply sand or other inert granular material to improve traction.

Further information:

Exhaust vapors. 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****Precautions for safe handling:**

Ensure adequate ventilation. Must be syphoned off in situ. Spilled substance increases risk of slipping. Avoid formation of aerosols. In case of aerosol formation special protective measures are required (exhausting by suction, respiratory protection). Observe information in section 8. 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. 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 it in a dry and cool place. Protect against moisture. Store the 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:**

Aerosol - respirable fraction: 10mg/m³

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:**

Avoid contact with eyes and skin. Do not inhale gases/vapors/aerosols. Do not eat, drink or smoke when handling.

Personal protection equipment:**Respiratory protection**

In case of long or strong exposure: gas mask filter ABEK .

Eye protection

Tight fitting protective goggles .

Version 6.4H	Page 5 / 9	Revision Date 18.12.2023
--------------	------------	--------------------------

Hand protection

Protective gloves made of butyl rubber . 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.

Skin protection

Protective clothing.

Exposure to the environment limited and controlled

Prevent material from entering surface waters, drains or sewers and soil. Do not introduce large amounts into purification plants.

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

Property:	Value:
Appearance	
Physical state / form	liquid
Color	colorless
Odor	
Odor	slight
pH-Value	
pH-Value	not applicable
Melting point/freezing point	
Melting point / melting range	not determined
Initial boiling point and boiling range	
Boiling point / boiling range	> 190 °C at 1013 hPa
Flash point	
Flash point	72 °C
Sustained combustibility	> 110 °C
Upper/lower flammability or explosive limits	
Lower explosion limit (LEL)	not determined
Upper explosion limit (UEL)	not determined
Vapor pressure	
Vapor pressure	< 50 hPa at 20 °C
Vapor pressure	< 120 hPa at 50 °C
Solubility(ies)	
Water solubility / miscibility	not applicable
Vapor density	

Version 6.4H	Page 6 / 9	Revision Date 18.12.2023
--------------	------------	--------------------------

Relative gas/vapor density	No data known.
Relative Density	
Relative Density	0.90 (25 °C)(Water / 4 °C = 1,00)
Density	0.90 g/cm ³ (25 °C)
Partition coefficient: n-octanol/water	
Partition coefficient: n-octanol/water	No data known.
Auto-ignition temperature	
Ignition temperature	> 280 °C
Viscosity	
Viscosity (dynamic)	Max.10 mPa.s

Other information

Re 9.2 solubility in water: Hydrolytic decomposition occurs. Explosion limits for released methanol: 5.5 - 44 %(V). Re 9.2 pH Value: Product displays neutral reaction.

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 , basic substances and acids . Reaction causes the formation of: methanol.

Hazardous decomposition products

Under the effect of humidity, water and protic agents: methanol. The following applies for the silicone content of the substance: 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

Acute toxicity

Assessment:

For similar products no indications for a specific hazard due to aerosol inhalation were identified in animal tests. However, inhalation of respirable aerosol should be avoided.

Product details:

Route of exposure	Result/Effect	Species/Test system	Source
by inhalation	LC50: >240ml/h; 4 h No mortality at room	Rat	Conclusion by analogy

Version 6.4H	Page 7 / 9	Revision Date 18.12.2023
--------------	------------	--------------------------

temperature in highly
enriched or saturated
atmosphere.(spray)

Acute toxicity estimate (ATE):

ATEmix (oral): > 2000 mg/kg

Skin corrosion/irritation

Assessment:

No data available.

Serious eye damage / eye irritation

No data available.

Respiratory or skin sensitization

No data available.

Germ cell mutagenicity

No data available.

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.

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

No data available.

Persistence and degradability

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.

Bioaccumulative potential

Bioaccumulation is not expected to occur.

Version 6.4H	Page 8 / 9	Revision Date 18.12.2023
--------------	------------	--------------------------

Mobility in soil

Silicone content: Absorbed by floating particles. Separation by sedimentation.

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.

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

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

Version 6.4H	Page 9 / 9	Revision Date 18.12.2023
--------------	------------	--------------------------

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

no data available

Chemical Safety Assessment

no data available

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.