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

Product Name: SiSiB® SR8632

Chemical Name: SILICONE RESIN POWDER

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 (GHS):**

Hazard class	Hazard category	Route of exposure
Combustible dust	None	

Label elements**Labelling (GHS):**

Signal Word: Warning

H-Code	Hazard Statements
None	May form combustible dust concentrations in air.

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.

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

CAS No.	Chemical characteristics
	Alkylsilicone resin

Information on ingredients:

This material does not contain any ingredients above the permitted limit(s).

Substances listed in the Subsections "HAPS" and "California Proposition 65 Carcinogens / Reproductive Toxins" that are not listed in this section are only present at quantities below 0.1% for California Proposition 65 listed toxins or below 1% for noncarcinogenic

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HAPS or they are inextricably bound in the product. Specific chemical identities and/or exact percentage (concentration) of the composition may have been withheld as a trade secret.

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57) in amounts above $\geq 0.1\%$.

SECTION 4: First aid measures**General information:**

Get medical attention if irritation occurs or if breathing becomes difficult. Remove contaminated clothing and shoes.

After inhalation:

If inhaled, remove to fresh air.

After contact with the skin:

If contact with skin, wash skin with plenty of water or with water and soap.

After contact with the eyes:

If contact with eyes, immediately hold eyelids apart and flush with plenty of water for at least 15 min.

After swallowing:

No special measures are required after swallowing.

Advice for the physician

Treat symptomatically.

SECTION 5: Firefighting measures**Flammable properties:**

Property:	Value:
Flash point:	not applicable
Boiling point / boiling range:	not applicable
Lower explosion limit (LEL):	30 g/m ³

Fire and explosion hazards:

Dust may form explosive mixture with air. Electrostatic charging is possible.

Recommended extinguishing media:

water-spray, carbon dioxide, dry chemical or foam-type extinguishing media

Unsuitable extinguishing media:

sharp water jet

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

Hazardous decomposition products: carbon dioxide, carbon monoxide, formaldehyde, silicon dioxide and incompletely burnt hydrocarbons.

Fire fighting procedures:

Fire fighters should wear full protective clothing including a self-contained breathing apparatus.

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SECTION 6: Accidental release measures**Precautions:**

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.

HAZWOPER PPE Level: D

Containment:

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.

Spills of material which could reach surface waters must be reported to the United States Coast Guard National Response Center's toll free phone number (800) 424-8802.

Methods for 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.

SECTION 7: Handling and storage**Handling****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.

Storage**Conditions for storage rooms and vessels:**

Observe local/state/federal regulations.

Advice for storage of incompatible materials:

Observe local/state/federal regulations.

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Further information for storage:

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

SECTION 8: Exposure Controls/Personal Protection**Engineering controls****Ventilation:**

Use only with adequate ventilation.

Local exhaust:

In case of dust formation: Local exhaust ventilation which meets the requirements of ANSI Z9.2 is recommended to control airborne contaminants at the point of use.

Associate substances with specific control parameters such as limit values**Maximum airborne concentrations at the workplace:**

CAS No.	Substance	Type	mg/m ³	ppm	Dust fract.
	Particulates not otherwise classified (insoluble or poorly soluble)	OSHA PEL	15.0		Inhalable dust/mist
	Particulates not otherwise classified (insoluble or poorly soluble)	OSHA PEL	5.0		Respirable dust/mist
64-17-5	Ethanol	OSHA PEL	1,900.0	1,000.0	
	Particulates not otherwise classified (insoluble or poorly soluble)	ACGIH TWA	10.0		Inhalable dust/mist
	Particulates not otherwise classified (insoluble or poorly soluble)	ACGIH TWA	3.0		Respirable dust/mist

Re Particulates not otherwise classified: The value is for particulate matter containing no asbestos and < 1% crystalline silica (ACGIH).

Re Ethanol (CAS no. 64-17-5): STEL is 1000 ppm; carcinogenicity: A3 (ACGIH).

Personal protection equipment (PPE)**Respiratory protection:**

A NIOSH approved air purifying respirator equipped with universal multi-contaminant, multi-gas/vapor cartridges and at least P-99 solid/aerosol particulate filters is recommended if overexposure to dusts, mists, or vapors could occur.

Hand protection:

rubber gloves

Eye protection:

Safety glasses with side shields or chemical safety goggles.

Other protective clothing or equipment:

Long pants and long sleeved shirts. Provide eye bath and safety shower.

General hygiene and protection measures:

Avoid breathing dust/vapor/mist/gas/aerosol. Avoid contact with eyes, skin and clothing. Do not eat, drink or smoke when handling. Follow standard industrial hygiene practices when using this material. Wash thoroughly after handling.

SECTION 9: Physical and Chemical Properties

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Information on basic physical and chemical properties

Property	Value	Method
Physical state	solid	
Form	powder	
Color	white	
Odor	odorless	
Melting point/melting range	not applicable	
Boiling point and boiling range	not applicable	
Flash point	not applicable	
Lower explosion limit (LEL)	30 g/m ³	
Vapor pressure	not applicable	
Bulk density	250 kg/m ³	(DIN EN ISO 60)
Water solubility/miscibility	virtually insoluble	
pH	approx. 7	
Viscosity (dynamic)	not applicable	
Odor limit	no data available	
Thermal decomposition	> 200 °C (> 392 °F)	
Median particle size	7,1 µm screened according to German VDI	
Dust explosion class	St3	
Kst value	345 m*bar/sec	(DIN EN 14034-2 (sieved < 63 µm))
Kst value	354 m*bar/sec	(DIN EN 14034-2 (original))
Maximum explosion pressure	8,4 bar	(DIN EN 14034-1 (sieved < 63 µm))
Maximum explosion pressure	8,3 bar	(DIN EN 14034-1 (original))
Ignition temperature	400 °C	(DIN EN 50281-2-1 (sieved < 63 µm))
Minimum ignition energy	1 mJ with inductance	(DIN EN 13821 (sieved < 63 µm))
Glow temperature	310 °C	(DIN EN 50281-2-1 (sieved < 200 µm))

SECTION 10: Stability And Reactivity**General information:**

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

Conditions to avoid

moisture, Heat, open flames, and other sources of ignition.

Materials to avoid

Reacts with: water, basic substances and acids. Reaction causes the formation of: ethanol.

Hazardous decomposition products

By hydrolysis: ethanol. Measurements have shown the formation of small amounts of formaldehyde at

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temperatures above about 150 °C (302 °F) through oxidation.

Further information:

Hazardous polymerization cannot occur.

SECTION 11: Toxicological Information**Information on toxicological effects****General information**

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

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

Product details:

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

Serious eye damage/eye irritation

Product details:

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

Respiratory or skin sensitization**Assessment:**

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

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:**

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

Further toxicological information**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****Assessment:**

Assessment based on ecotoxicological tests with similar products under consideration of the physical-chemical properties: For this product no effects on aquatic organisms, relevant for classification, are expected.

Product details:

Result/Effect	Species/Test system	Source
IC50 (growth rate): > 100 mg/l (nominal) effect level > maximum achievable concentration	static (water-accommodated fraction) Desmodesmus subspicatus (72 h)	Conclusion by analogy OECD 201

Persistence and degradability**Assessment:**

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

Data on substances:**Product of hydrolysis (Ethanol):**

Ethanol is readily biodegradable.

Bio-accumulative potential**Assessment:**

Polymer component: Bioaccumulation is not expected to occur.

Mobility in soil**Assessment:**

No data known.

Results of PBT and vPvB assessment

No data available.

Other adverse effects

no data available

SECTION 13: Disposal considerations**Product disposal**

Recommendation:

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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.

Packaging disposal

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**US DOT & CANADA TDG SURFACE**

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

SECTION 15:Regulatory Information**U.S. Federal regulations****TSCA inventory status and TSCA information:**

This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

TSCA 12(b) Export Notification:

This material does not contain reportable amounts of any TSCA 12(b) listed chemicals.

CERCLA Regulated Chemicals:

This material does not contain any CERCLA regulated chemicals.

SARA 302 EHS Chemicals:

This material does not contain any SARA extremely hazardous substances.

SARA 311/312 Hazard Class:

This product does not present any SARA 311/312 hazards.

SARA 313 Chemicals:

This material does not contain any SARA 313 chemicals above de minimums levels.

HAPS (Hazardous Air Pollutants):

This material does not contain any hazardous air pollutants.

U.S. State regulations**California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):**

This material does not contain any chemicals known to the State of California to cause cancer.

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This material does not contain any chemicals known to the State of California to cause reproductive effects.

Massachusetts Substance List:

This material contains no listed components.

New Jersey Right-to-Know Hazardous Substance List:

This material contains no listed components.

Pennsylvania Right-to-Know Hazardous Substance List:

This material contains no listed components.

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. (For a correct interpretation of the New Zealand status, additional information like GHS classification or Group Standard is required.)

Australia

AICS (Australian Inventory of Chemical Substances):

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

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):

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

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European Economic Area (EEA)

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.

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"):

General note: in case of registration obligations for substances or polymers imported into Korea or manufactured within Korea these are fulfilled by the supplier mentioned in section 1. The registration obligations for substances or polymers imported into Korea 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.