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

Product Identifier

Product Name: SiSiB® SR7001

Chemical Name: Silicone Resin Emulsion

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

GHS Classification

Not applicable (According to GB 13690-2009 classification criteria)

GHS Pictogram(s)

GHS Label Elements

GHS symbol name: Warning

Risk statement: Mild skin irritation, inhaling harmful

Preventive measure:

P201 Get the dedicated instructions before using.

P202 Do not move until you read and understand all safety measures

P210 Keep away from heat sources, hot surfaces, sparks, open flames, and other ignition sources. Smoking is prohibited.

P233 Keep the container closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof [electrical/ventilation/illumination] equipment.

P242 Use a spark-free tool.

P243 Take measures to prevent electrostatic discharge. Do not inhale dust, smoke, gas, aerosol, vapor, or spray.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Thoroughly clean after use.

P270 Do not eat, drink, or smoke while using.

P280 Wear protective gloves/protective clothing/protective goggles/protective mask.

Response to an incident:

P314 If you feel unwell, seek medical attention.

P308+P313 If exposed or suspect: Seek medical attention.

P332+P313 In case of skin irritation: Seek medical attention.

P337+P313 If eye irritation persists after treatment, seek medical attention.

P362+P364 Remove the contaminated clothing and wash it before reuse.

P303+P361+P353 In case of skin (or hair) contact: Immediately remove all contaminated clothing. Wash the skin with water or take a shower.

P305+P351+P338 If in eyes: Rinse carefully with water for several minutes. If wearing contact lenses and they can be easily removed, remove the contact lenses. Continue rinsing.

Safe storage

P403+P235 Store in a well-ventilated area and maintain low temperature.

Disposal:

P501 Dispose of contents/containers in accordance with local/regional/national/international regulations.

Hazard description

Physical and chemical hazards: non-hazardous

health hazard

Inhalation: No data

Ingestion: No data available

Skin contact: No data available

Eye: No data available

Environmental hazards: Refer to SECTION 12 of the SDS.

SECTION 3: Composition/information on ingredients

Substance

Mixture

Chemical Name

Polymethylphenylsiloxane + water + solvent + emulsifier

Hazardous Components

Chemical Name / Component	CAS No.	Content (%)
Polymethylphenylsiloxane	63148-58-3	40-44
Deionized water	7732-18-5	39-43
DBE	95481-62-2	~10
DPM	34590-94-8	
Emulsifier	/	~7

SECTION 4: First aid measures

General recommendations

First aid measures are usually required. Please consult a physician for diagnosis and treatment, and accurately identify the substance name.

Eye contact

Rinse thoroughly with large amounts of water for at least 15 minutes. Seek medical attention if discomfort occurs.

Skin exposure

Immediately remove contaminated clothing. Rinse skin thoroughly with large amounts of soapy water and clean water. If discomfort occurs, seek medical attention.

Ingestion

Do not induce vomiting, and do not feed anything orally to unconscious individuals. Immediately call a physician or the poison control center.

Inhalation

Immediately move the patient to fresh air and maintain airway patency. If dyspnea occurs, administer oxygen. Do not perform mouth-to-mouth resuscitation if the patient has ingested or inhaled this substance. If respiration ceases, immediately perform cardiopulmonary resuscitation (CPR) and seek medical attention immediately.

Protection of emergency personnel

Health care workers should be made aware of the hazard characteristics of the product and take their own protective measures to protect themselves and prevent the spread of contamination.

For the most critical symptoms and impacts, acute and delayed

Limited evidence suggests that repeated or long-term occupational exposure may have cumulative health effects involving organs or biochemical systems.

Description of emergency medical treatment and special treatment

Targeted treatment should be administered based on the symptoms that appear, with attention to the possible delay in symptom onset.

SECTION 5: Firefighting measures

Extinguishing medium

Low flame: dry chemical extinguishing agents, carbon dioxide, water, or fire-resistant foam extinguishing agents;

Fire extinguishing: Water, water mist, or fire-resistant foam

Inappropriate fire extinguishing medium

Avoid using too much water to put out the fire, as it may cause the flames to spread.

Specific hazards arising from the substance or mixture:

May form explosive mixtures with air.

Containers exposed to fire may leak contents through pressure relief valves, thereby increasing the concentration of fire and/or vapor.

Steam may move to the ignition source and flash back.

The container may explode when heated.
Exposure to heat or flame may cause expansion or explosive decomposition.

Recommendations for firefighters:

When extinguishing a fire, wear a respirator (MSHA/NIOSH compliant or equivalent) and a full-body protective suit.
Extinguish the fire at a safe distance with adequate protection.
Spray water mist to control the fire and cool the adjacent area.
Gas/steam/smoke generated by water spray pressing.

SECTION 6: Accidental release measures

Protective measures for workers, protective equipment and emergency procedures:

Avoid inhalation of vapors, skin contact, and eye exposure.
Be cautious of vapor accumulation reaching explosive concentrations.
Steam energy can accumulate in low-lying areas.
It is recommended that emergency personnel wear positive pressure self-contained breathing apparatus (PPE), anti-toxic and anti-static clothing, and chemical-resistant gloves.
Ensure adequate ventilation. Eliminate all ignition sources. Implement anti-static measures.
Evacuate personnel quickly to a safe area, away from the spill and upwind.
Use personal protective equipment (PPE). Avoid inhalation of vapors, smoke, or gases.

Environmental protection measures:

Take measures to prevent further leakage or spillage, if safe.
Avoid discharge into the surrounding environment.

Methods of containment, decontamination and disposal materials used for the release of chemicals:

For minor leaks, absorb the leaked substance with dry sand or inert adsorbent materials. For major leaks, a dike must be constructed for containment.
Attachments or collections should be stored in appropriate sealed containers and disposed of in accordance with local relevant laws and regulations.
Eliminate all ignition sources and use flame arresters and explosion-proof equipment.

SECTION 7: Handling and storage

Operation Notes:

Avoid inhalation of vapors.
Only use tools that do not produce sparks.
To prevent vapor ignition caused by static discharge, all metal components on the equipment must be grounded.
Use explosion-proof equipment.
Perform operations in well-ventilated areas.

Wear appropriate personal protective equipment (PPE).
Avoid contact with skin and entry into eyes.
Keep away from heat sources, sparks, open flames, and hot surfaces.

Storage precautions:

Keep the container closed.
Store in a dry, cool and well-ventilated place.
Keep away from heat sources, sparks, open flames, and hot surfaces.
Store in a place away from incompatible materials and food containers.
Open containers must be carefully resealed and kept upright to prevent leakage.
Avoid contact with acids, alkalis, and strong oxidizing agents.

SECTION 8: Exposure Controls/Personal Protection

Controlling parameter

Occupational exposure limit: No data available
Biological limit: No data available

Monitoring method:

EN 14042 Workplace Air: Guidelines for Procedures to Assess Exposure to Chemical or Biological Agents.
GBZ/T 160.1~GBZ/T 160.81-2004 Determination of Toxic Substances in Air at Workplaces (Series of Standards).

Engineering control

Ensure adequate ventilation, especially in enclosed areas.
Ensure that eye wash and shower facilities are available near the workplace.
Use explosion-proof electrical appliances, ventilation, and lighting equipment.
Establish emergency evacuation routes and designated risk mitigation zones.
Operate in accordance with good industrial hygiene and safety practices.

Personal protective equipment

Eye protection: Wear chemical goggles (compliant with EU EN 166 or US NIOSH standards).
Hand protection: Wear chemical-resistant gloves (e.g., butyl rubber gloves). It is recommended to select gloves that have been tested in accordance with EU EN 374, US F739, or AS/NZS 2161.1 standards.
Respiratory protection: Use a full-face multi-purpose gas mask (US) or an AXBEK type (EN 14387) gas mask cylinder if the vapor concentration exceeds the occupational exposure limit or if symptoms such as irritation occur.
Skin and body protection: Wear flame-retardant and anti-static protective clothing and anti-static protective boots.

SECTION 9: Physical and Chemical Properties

Appearance and Characteristics	Milky white liquid

Odor	light
pH	~8
Melting point/solidification point (°C)	no data available
Initial boiling point and boiling range (°C)	no data available
Flash point (closed cup, °C)	>100
Evaporation rate	no data available
Inflammability	combustible
Upper/Lower Explosive Limit [% (v/v)]	no data available
vapor pressure	no data available
(relative) vapor density (air=1)	no data available
Relative Density (Water=1)	1.0~1.2
Solubility (mg/L)	dissolve in water
Octanol/water partition coefficient	no data available
Autogenous ignition temperature (°C)	>450
Decomposition temperature (°C)	no data available
Dynamic viscosity	20-500 mPa·S
Particle characteristics	not applicable

SECTION 10: Stability And Reactivity

Reactivity: may decompose or undergo other chemical reactions upon contact with incompatible substances.
Chemical stability: stable under correct conditions of use and storage.
Risk of adverse reactions: May react with strong acids or alkalis.
Conditions to avoid exposure: incompatible substances, heat, flame and spark.
Incompatible substances: strong acids and bases, halides, oxidizing agents, and halogens.
Hazardous decomposition products Under normal storage and use conditions, no hazardous decomposition products are generated.

SECTION 11: Toxicological Information

General note: Data obtained from the product as a whole should take precedence over data obtained from individual components.
Acute toxicity: No comprehensive product trial data are available to date.
Acute toxicity:

test	DPM	DBE
Oral	LD50, rat,> 5,000 mg/kg	LD50, rat,> 5,000 mg/kg
Dermal	LD50, rabbit, 9,510 mg/kg	LD50, rat,> 2,000 mg/kg
Inhalation	LC50, rat, 7, vapor, 3.35 mg/l	LC50, rat, 4 h,> 11 mg/l

No death cases occurred in the above tests.

Carcinogenicity: To date, no comprehensive toxicological test data for the product have been available.
Skin corrosion/irritation: According to available data, it does not meet the classification criteria.
Severe eye injury/irritation: According to available data, it does not meet the classification criteria.
Skin sensitization: According to available data, it does not meet the classification criteria.
Respiratory sensitization. According to available data, it does not meet the classification criteria.
Genotoxicity: According to available data, it does not meet the classification criteria.
Specific target organ system toxicity-single dose
Contact: According to available data, it does not meet the classification criteria.
Specific target organ system toxicity-repeated
Contact: According to available data, it does not meet the classification criteria.
Inhalation hazard: According to available data, it does not meet the classification criteria.
Mutagenicity of germ cells: According to available data, it does not meet the classification criteria.
Additional reproductive toxicity hazard: According to available data, it does not meet the classification criteria.

SECTION 12: Ecological Effects

Ecotoxicity: No comprehensive test data for the product as a whole are available. Data obtained from the product as a whole should take precedence over data derived from individual components.
Polymer components: Polymer components are insoluble in water, non-toxic, non-biodegradable, and can be removed through activated sludge adsorption.
Acute aquatic toxicity: No data available
Acute aquatic toxicity: No data available
Chronic aquatic toxicity: No data available
Chronic aquatic toxicity: No data available
Persistence and degradability: No data available
Persistence and degradability: No data available
Bioaccumulation or bioconcentration: No data available
Soil mobility: No data available
Evaluation of results for PBT and vPvB: No data available
Other adverse effects: Special attention should be paid to the contamination of surface water, soil and drinking water.

SECTION 13: Disposal considerations

Product disposal methods: Treatment at wastewater treatment plants or incineration.
Container: Completely empty the container (no droplets, no powder residue, thoroughly cleaned). The container can be recycled or reused.
Waste Disposal Notes: This item cannot be washed or reused. Please comply with relevant national and local laws and regulations.

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

No data available

SECTION 15: Regulatory Information

Safety, health and environmental regulations/Specific regulations for the substance or mixture:
Developed in accordance with GB/T 16483-2008 and GB/T 17519-2013, complying with national and local government regulations.
The following regulations, laws and standards provide corresponding provisions for the safe use, storage, transportation, handling, classification and labeling of chemicals.
New Environmental Management Measures for Chemical Substances
Regulations on the Safe Use of Chemicals in the Workplace
Solid Waste Pollution Prevention and Control Law of the People's Republic of China
General Rules for Classification and Hazard Notification of Chemicals (GB 13690)
Occupational Exposure Limits for Hazardous Factors in the Workplace—Chemical Hazardous Factors (GBZ 2.1).

International Chemicals List

[EINECS] European List of Existing Chemicals
[TSCA] U.S. Toxic Substances Control Act Chemical List
[DSL] Canadian Domestic Chemical List
[IECSC] China's current list of chemical substances
[NZIoC] New Zealand Inventory of Chemicals in Temporary Use
[PICCS] Philippine Chemicals and Chemical Substances List
[KECI] Current List of Chemical Substances in Korea
[AICS] Australia Inventory of Existing Chemical Substances

[ENCS] List of Existing and Newly Chemical Substances in Japan
The product is listed in the substance list or meets the characteristics of the substances in the list.

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.