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

Product Identifier

Product Name: SiSiB® SR3001

Chemical Name: Organic Silicone Resin

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

Hazard class and category

Flammable liquids Hazard category 3

Aspiration hazard Hazard category 1

Skin corrosive/irritation Hazard category 2

Specific target organ toxicity, single exposure; Narcotic effects; Hazard category 3

Reproductive toxicity Hazard category 2

Specific target organ toxicity, repeated exposure; Hazard category 2

Label elements

Pictogram

Signal word Danger

Hazard statements and code

H225 Highly flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure: central nervous system.

SECTION 3: Composition/information on ingredients

Substances

Mixture.

Compositions	CAS No.	Content
Organic silicone resin	67763-03-5	50%
Toluene	108-88-3	50%

SECTION 4: First aid measures

Description of first aid measures

In case of skin contact

Remove contaminated clothing and rinse thoroughly with soap and water.

In case of eye contact

Lift eyelid, wash with flowing water or normal saline, seek medical treatment.

Inhalation

Remove from site to fresh air. Go to a doctor.

Food intake

Drink plenty of warm water and vomit. Go to a doctor.

SECTION 5: Firefighting measures

Dangerous characteristics

Flammable, its vapor and air can form explosive mixtures, when exposed to open fire, high thermal energy causes combustion explosion. The ignition source leads back to combustion. If subjected to high heat, the pressure inside the container increases, and there is a danger of cracking and explosion.

Harmful combustion products

Smoke when burning, and produce carbon monoxide, carbon dioxide, nitric oxide, silica fume.

Fire extinguishing method and extinguishing agent

Water spray cooling vessel, if possible, move the container from the fire field to the open space.

Extinguishing agent: foam, carbon dioxide, dry powder, sand soil, water extinguishing is not effective.

SECTION 6: Accidental release measures

Emergency treatment

Evacuate the contaminated area personnel to the safe area quickly, and quarantine, strictly restrict access. Cut off the fire. It is recommended that emergency treatment personnel wear self - pressure breathing apparatus and wear general working clothes. Cut off the source as much as possible. To prevent the flow of restricted space such as sewers and drainage channels.

Small leakage

Absorption by dry sand or similar substances.

Massive leakage

Build a dike or dig a pit. Cover with foam and reduce steam hazards. Use the explosion-proof pump to transfer to the tank car or the special collector for recycling or transportation to the waste disposal site.

SECTION 7: Handling and storage

Operation precautions

Closed operation, provide good natural ventilation conditions. Operators must be specially trained to strictly observe operating procedures. It is recommended that operators wear self-priming filter respirators and wear chemical safety glasses. Keep away from fire and heat sources. Smoking is forbidden in the workplace. Use explosion-proof ventilation systems and equipment. Prevent steam from leaking into the workplace air. Avoid contact with acid, alkali, amine and oxidant. Light loading and unloading to prevent damage of packaging and container. Equipped with corresponding variety and quantity of fire equipment and leakage emergency treatment equipment. Empty containers may contain harmful solvents.

Storage precautions

Stored in a cool, ventilated warehouse. Keep away from fire and heat. Keep the container sealed. It should be stored separately from acid, alkali, oxidizer and edible chemicals. Explosion-proof lighting and ventilation facilities are adopted. The use of mechanical equipment and tools that produce sparks is prohibited. The storage area shall be equipped with emergency handling equipment and suitable receiving materials.

SECTION 8: Exposure Controls/Personal Protection

Maximum allowable concentration

Cross-linked silicone resin: no data; Xylene (skin): 100mg/m3.

Monitoring method

Gas chromatographic method for determination of toxic gas concentration in air.

Engineering control

The production process is closed and ventilated.

Respiratory protection

When the concentration in the air exceeds the standard, wear a self-absorption filter gas mask (half mask). For emergency rescue or evacuation, use an air breathing apparatus or an oxygen respirator.

Eye protection

Wear chemical safety goggles.

Body protection

Wear protective clothing.

Hand protection

Wear rubber - resistant gloves.

Other protection

Smoking, eating and drinking are prohibited. Avoid alcoholic beverages before work. After working, shower and change clothes. Pre-employment regular physical examination.

SECTION 9: Physical and Chemical Properties

Main ingredients

Silicone resin and toluene or xylene.

Information on basic physical and chemical properties

Appearance	colorless to light yellow transparent liquid
Color	colorless
pH	7.0
The melting temperature (°C)	-95
The boiling point (°C)	110.6
Relative density (water = 1) (25°C)	0.98-1.01
Relative vapor density (air =1)	3.66
Saturated vapor pressure (kPa)	no data available
Heat of combustion (kJ/mol)	no data available
The critical temperature (°C)	no data available
Critical pressure (MPa)	no data available

Value of octanol/water distribution coefficient

no data available

Flash point (°C)	4.4
Ignition temperature (°C)	no data available
Upper xxplosion limit % (V/V)	7.0
Lower explosion limit % (V/V)	1.0
Solubility	soluble in toluene, xylene, butyl acetate
Main purpose	high resistance, low temperature insulating paint, adhesives, special coatings, etc.

Other physical and chemical properties

Temperature resistance (h /°C)	⩾200/200
Thermo-gravimetric (h) (°C/%)	5/250 x 3

SECTION 10: Stability And Reactivity

Stability

Stability.

Forbidden material

Forbidden storing with acid, alkali, oxidizer.

Avoid contact conditions

High heat, open flame.

Aggregation hazard

Cannot occur.

Decomposition products

Carbon monoxide, carbon dioxide, silicon dioxide.

SECTION 11:Toxicological Information

Information on toxicological effects

Acute toxicity

no data available

Acute poisoning

no data available

Chronic toxicity

no data available

Irritant: human eye

200PPM, causing irritation. The rabbit was moderately stimulated by 500 mg (24 h).

Subacute and chronic toxicity

no data available

Mutagenicity

no data available

Teratogenicity

no data available

Carcinogenicity

no data available

SECTION 12: Ecological Effects

Ecotoxicological toxicity

no data available

Biodegradability

no data available

Non-biodegradable

no data available

Biological enrichment or biological accumulation

no data available

Other harmful effects

no data available

SECTION 13:Disposal considerations

Waste property

Hazardous waste.

Disposal methods

Refer to national and local regulations before disposal. It is recommended that incineration be used.

SECTION 14:Transport Information

Hazards identification:

Flammable liquid

Suggestion according to IMO IMDG Code

Shipping name: Resin solution

Class or Division: 3

UN Number

UN1866

Packing requirements

Packing Group II

Pictogram

SECTION 15:Regulatory Information

Regulatory information

Chemical dangerous goods safety management regulations (promulgated by the state council on February 17, 1987), the chemical dangerous goods safety management regulations, implementing rules (change law is sent [1992]1992), using chemicals workplace safety regulation (no. 1996 [1996] labor department is sent) such as laws and regulations, for the safe use of hazardous chemicals, production, storage, transportation, loading and unloading and so on all has made the corresponding provisions; Classification and marking of commonly used hazardous chemicals (GB 13690-92) classified the substance as flammable liquid in class 3.2.

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.