

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

Product Identifier

Product Name: SiSiB® AP5100

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

Risk category: Non-dangerous goods

Pathway: No

Health hazard: No

Environmental hazard: No

Explosion danger: No

Other danger: Expose this product to vapor occasion may cause methanol.

SECTION 3: Composition/information on ingredients

Chemical nature: Functional polysiloxane blend

SECTION 4: First aid measures

Description of first aid measures

In case of skin contact

Wash off immediately with plenty of water to cool down, and do not remove any clothes or other things on burns and get medical attention.

In case of eye contact

Wash with plenty of water or get medical attention.

If inhaled

Move the exposed person to fresh air at once. Get medical attention if symptoms persist.

If swallowed

Do NOT induce vomiting. If conscious, drink plenty of water.

Get medical attention if symptoms persist.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

Use dry chemicals, foam or dry sand when big fire, and use carbon dioxide (CO₂) and dry chemicals when small fire.

Unsuitable extinguishing media

Do not use direct water flow.

Special Hazards Arising from the Substance or Mixture

Combustion products may include carbon dioxide, silica, and traces of carbon monoxide or other incomplete combustion products. Under fire conditions, vapors may form explosive mixtures with air.

Advice for Firefighters

Wear self-contained breathing apparatus (SCBA) and full protective clothing when fighting chemical fires. Cool exposed containers with water spray to prevent pressure build-up and re-ignition. Follow local emergency procedures regarding area evacuation.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear appropriate personal protective equipment (PPE) as specified in Section 8. Avoid contact with skin, eyes, and clothing. Ensure adequate ventilation.

Environmental Precautions

Prevent material from entering drains, sewers, or watercourses. Contain spillage.

Methods for cleaning up

Contain the spill with inert absorbent material (e.g., sand, vermiculite). Collect spilled material in a suitable container for disposal according to local regulations (see Section 13). Wash area thoroughly with detergent and water.

Prevention of secondary hazards

See Sections 8 and 13.

SECTION 7: Handling and storage

Handling

Precautions for safe handling

Avoid contact with skin and eyes. Do not breathe vapor/mist. Do not ingest.

Keep container tightly closed when not in use.

Use only with adequate local exhaust ventilation or while wearing appropriate respiratory protection.

Use non-sparking tools. Take precautions against static discharge by bonding and grounding all equipment. Inert gas purging prior to transfer may be necessary to eliminate static ignition hazards.

Control transfer rates to minimize static buildup.

Practice good industrial hygiene. Wash thoroughly after handling.

Empty containers retain product residue and can be hazardous. Handle with the same precautions as the full product.

Storage

Conditions for Safe Storage, Including Any Incompatibilities

Store in a cool, dry, well-ventilated area, away from heat and ignition sources.

Keep container tightly closed and clearly labeled.

Store separately from strong oxidizers, organic peroxides, flammable materials, pyrophoric substances, and materials that react with water to release flammable gases.

SECTION 8: Exposure Controls/Personal Protection

Control parameters

No substance-specific limiting value being known.

Exposure controls

Engineering measures

Use local exhaust ventilation to maintain airborne concentrations below exposure limits. Ensure general ventilation is adequate.

Personal protective equipment

Respiratory Protection

Use an approved vapor/organic vapor respirator if ventilation is insufficient or airborne concentrations are unknown.

Hand Protection

Wear chemical-resistant gloves (e.g., nitrile, neoprene). For handling hot material, use thermally insulated gloves.

Eye Protection

Wear safety goggles or a face shield.

Skin and Body Protection

Wear protective clothing to prevent skin contact.

SECTION 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state	liquid
Color	yellowish
Odor	characteristic, irritating odor.
Flash point	>120 °C (closed cup)
Flammability (solid, gas)	no data available
pH	no data available

SECTION 10: Stability And Reactivity

Reactivity

Stable under normal conditions.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Reacts with strong oxidizing agents. Contact with water or steam may generate methanol vapors.

Conditions to avoid

Heat, open flames, sparks. Contact with strong oxidizers and moisture/steam.

Materials to Avoid

Strong oxidizing agents, acids, bases.

Hazardous decomposition products

Carbon dioxide, silica, and possibly carbon monoxide under fire conditions. Methanol vapor from reaction with water.

SECTION 11: Toxicological Information

Information on toxicological effects

Acute toxicity

Chemical name: Octamethylcyclotetrasiloxane

CAS No: 556-67-2

LD50 (Oral): >5000mg/kg(rat)

LD50 (Dermal): >4640mg/kg(rabbit)

LC50 (Inhalation): 36mg/L (rat, 4h, vapor)

Eyes: Expose this product to vapor occasion may cause thermal burns

Skin: Expose this product to vapor occasion may cause thermal burns

Ingestion: Normally use only with very low intake of harm

Inhalation: Brief exposure (measured in minutes) is unlikely to cause adverse effects. Vapors may cause upper airway (nose and throat) irritation. Over exposure may cause depression symptoms of central nervous system including headache, dizziness and lethargy, and in severe cases of ataxia and loss of consciousness.

Ingestion: Repeated or a large number of intakes can cause physical harm

SECTION 12: Ecological Effects

Aquatic Toxicity

Not specifically tested. Not expected to be acutely toxic to aquatic organisms based on composition.

Persistence and Degradability

No data available.

Bioaccumulative Potential

Based on siloxane components, not expected to bioaccumulate significantly.

Mobility in Soil

No data available.

Other Adverse Effects

Not anticipated under normal use.

SECTION 13: Disposal considerations

Product

Treat as industrial solid waste.

Disposal Method

Dispose of in accordance with all applicable local, regional, national, and international regulations. Reclaim if possible. Do not contaminate water, food, or feed by disposal. Incineration in a permitted facility may be an option.

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/legislation specific for the substance or mixture

National legislation

Chemical safety assessment

No chemical safety assessment is required for this product.

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.