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

Product Identifier

Product Name: SiSiB® FA0100

Chemical Name: Fumed alumina

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

Hazard Classification Not classified

Label Elements

Hazard Symbol: No symbol

Signal Word: No signal word

Hazard Statement: Not applicable

Precautionary Statements

Hazard(s) not otherwise classified (HNOC): None.

SECTION 3: Composition/information on ingredients

Chemical name:

Aluminium oxide

Substances

Chemical Identity	CAS number	Content in percent (%)
Aluminium oxide	1344-28-1	

All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. A specific chemical identity and/or percentage of composition has been withheld as a trade secret.

SECTION 4: First aid measures

Description of necessary first-aid measures

Inhalation:

In case product dust is released: Possible discomfort: cough, sneezing Move victims into fresh air.

Skin Contact:

Gently wash with plenty of soap and water.

Eye contact:

In case of contact, immediately flush eyes with plenty of water.

Obtain medical attention if irritation develops.

Ingestion:

If accidentally swallowed, rinse mouth thoroughly with water and afterwards, drink plenty of water. In case of discomfort, obtain medical attention.

Personal Protection for First-Aid Responders:

As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

Most important symptoms/effects, acute and delayed

Symptoms:

No data available.

Hazards:

None known.

Indication of immediate medical attention and special treatment needed

Treatment:

After absorbing large amounts of substance: Administration of activated charcoal: Acceleration of gastrointestinal passage.

SECTION 5: Firefighting measures

Suitable (and unsuitable) extinguishing media Suitable extinguishing media:

water spray, foam, CO₂, dry powder. Adapt fire-extinguishing measures to surroundings

Unsuitable extinguishing

media:

Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical:

None known.

Special protective equipment and precautions for firefighters Special fire fighting procedures:

No data available.

Special protective equipment for fire-fighters:

As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or

equivalent) and full protective gear.

SECTION 6: Accidental release measures

Personal precautions,

Use personal protective equipment.

protective equipment and emergency procedures:

Methods and material for

Sweep up or vacuum up spillage and collect in suitable container

containment and cleaning

for disposal.

Up:

Environmental Precautions:

Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

SECTION 7: Handling and storage

Handling

Technical measures (e.g. Local and general ventilation):

Ensure suitable suction/aeration at the work place and with operational machinery. Local ventilation if necessary. see also section 7.

Safe handling advice:

Handle in accordance with good industrial hygiene and safety practice. If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used. If the workplace threshold limit value is exceeded and/or the substance is released, use appropriate respiratory protection. Use with adequate ventilation. Minimize the escape of dust from process equipment and ventilation systems.

Contact avoidance measures:

No data available.

Hygiene measures:

When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work. Avoid clothing from being contaminated with the product. Wash contaminated clothing after use. To ensure ideal skin protection: use super fatted soaps and skin cream for skin care.

Storage

Safe storage conditions:

Take precautionary measures against static discharges. Keep containers tightly closed in a dry, cool place.

Safe packaging materials:

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No data available.

SECTION 8: Exposure Controls/Personal Protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Aluminium oxide - Respirable fraction.	TWA	1 mg/m ³	US.ACGIH Threshold Limit values (03 2016)
	PEL	5 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (03 2016)
Aluminium oxide -Total dust.	PEL	15 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29CFR1910.1000) (03 2016)
Aluminium oxide - Respirable fraction.	TWA	15 millions of particles per cubic foot of air	US.OSHA able Z-3(29 CFR1910.1000 (03 2016)
	TWA	5 mg/m ³	US. OSHA Table Z-3 (29 CFR1910.1000) (03 2016)
Aluminium oxide-Total dust.	TWA	15 mg/m ³	US .OSHA Table Z-3 (28 CFR 1910.1000) (03 2016)
	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR1910.1000 (03 2016)

Appropriate Engineering Controls

Ensure suitable suction/aeration at the work place and with operational machinery. Local ventilation if necessary. See also section 7.

Individual protection measures, such as personal protective equipment

Eye/face protection:

Wear safety glasses with side shields. In case dusts are formed, wear close fitting protective goggles.

Skin Protection

Hand Protection:

Additional Information: Protective gloves, nitrile rubber (NBR), butyl rubber, PVC Additional Information: The material thickness and rupture time data do not apply to non-solute solids / dusts. Additional Information: The above mentioned hand protection is based on knowledge of the chemistry and anticipated uses of this product but it may not be appropriate for all workplaces. A hazard assessment should be conducted prior to use to ensure suitability of gloves for specific work environments and processes prior to use, Use impermeable gloves.

Skin and Body

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A safety shower and eye wash fountain should be readily

Protection:

available. To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHAPPE Standard (29CFR1910.132) be conducted before using this product.

Respiratory Protection:

A respiratory protection program that meets OSHA 1910.134 and ANSIZ88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

Hygiene measures:

When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work. Avoid clothing from being contaminated with the product. Wash contaminated clothing after use. To ensure ideal skin protection: use super fatted soaps and skin cream for skin care.

SECTION 9: Physical and Chemical Properties

Appearance

Physical state:	solid
Form:	Powder
Color:	White
Odor:	odorless
Odor Threshold:	Not applicable
pH:	≥3.9 (40 g/l, 20°C) Suspension
Melting Point:	approx., 2,050°C
Boiling Point:	not determined
Flash Point:	Not applicable
Evaporation Rate:	Not applicable
Flammability (solid, gas):	Not applicable
Explosive limit - upper (%):	Not applicable
Explosive limit - lower (%):	Not applicable
Vapor pressure:	Not applicable
Vapor density (air=1):	No data available.
Density:	approx.3.27 g/cm ³ (20°C)
Relative density:	No data available.
Solubility(ies)	
Solubility in Water:	hardly soluble
Solubility (other):	No data available.

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Partition coefficient (n-octanol/water):	Not applicable
Self Ignition Temperature:	Not applicable
Decomposition Temperature:	> 2,000°C
Kinematic viscosity:	Not applicable solid
Dynamic viscosity:	Not applicable solid
Other information	
Explosive properties:	Not to be expected in view of the structure
Oxidizing properties:	Not to be expected in view of the structure
Minimum ignition energy:	Not applicable
Minimum ignition temperature:	Not applicable

SECTION 10: Stability And Reactivity

Reactivity:

No dangerous reaction known under conditions of normal use.

Chemical Stability:

Stable under recommended storage conditions.

Possibility of hazardous reactions:

No hazardous reactions are known if properly handled and stored.

Conditions to avoid:

Avoid dust formation.

Incompatible Materials:

Strong acids and strong bases

Hazardous Decomposition

Exothermic reactions of aluminum oxide above 20°C

Products:

with halocarbon vapors produces toxic HCl and phosgene.

SECTION 11: Toxicological Information

General information:

If the recommended workplace concentration of the product is exceeded the respiratory tract may be mechanically overcharged as with other fine dusts.

Information on likely routes of exposure

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

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Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No data available.

skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: LD 50 (Rat): > 5,000 mg/kg Based on available data, the classification criteria are not met.

Dermal

Product: No data available.

Inhalation

Product:

Components:

Aluminium oxide Vapour, Not toxic after single exposure Dusts, mists and fumes, Not toxic after single exposure

Repeated dose toxicity

Product: (Target Organ(s): lungs / sediments in the lungs, lungs / no evidence of fibrosis, no pathological changes) literature

Skin Corrosion/Irritation

Product: Not irritating. OECD Test Guideline 404 (Rabbit): Not irritating. Serious Eye Damage/Eye Irritation

Serious Eye Damage/Eye Irritation

Product: Not irritating. Rabbit: Not irritating.

Respiratory or Skin Sensitization

Product: Magnusson & Kligman, OECD Test Guideline 406 (Guinea Pig): not sensitizing Based on available data, the classification criteria are not met.

Carcinogenicity

Product: Contains no carcinogenic substances as defined by NTP, IARC and/or OSHA. No evidence that cancer may be caused.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

US. National Toxicology Program (NTP) Report on Carcinogens:

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

Germ Cell Mutagenicity

In vitro

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Product:	Ames test (literature): Negative
In vivo	
Product:	No data available.
Reproductive toxicity	
Product:	no evidence of reproductiontoxic properties
Specific Target Organ Toxicity - Single Exposure	
Product:	no evidence for hazardous properties
Specific Target Organ Toxicity - Repeated Exposure	
Product:	no evidence for hazardous properties
Aspiration Hazard	
Product:	Not classified
Other effects:	An Expert Judgment stated that no classification is necessary based on present knowledge.

SECTION 12: Ecological Effects

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: LC 50(Salmo trutta,96 h): > 100 mg/l literature

Aquatic Invertebrates

Product: EC 50(Daphnia magna, 48 h): > 100 mg/l literature

Chronic hazards to the aquatic environment: Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: EC 50 (Pseudokirchneriella subcapitata (microalgae), 72 h): > 100 mg/l literature

Persistence and Degradability Biodegradation

Product: The methods for determining biodegradability are not applicable to inorganic substances.

BODICOD Ratio

Product: No data available.

Bioaccumulative potential Bioconcentration Factor (BCF)

Product: Not to be expected.

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Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: Not applicable
Mobility in soil: No remarkable mobility in soil is to be expected.
Other adverse effects: An Expert Judgment stated that no classification is necessary based on present knowledge.

SECTION 13: Disposal considerations

Disposal methods:

Waste must be disposed of in accordance with federal, state, provincial and local regulations.

Contaminated Packaging:

Packaging material should be recycled or disposed of in accordance with federal, state and local regulations.

SECTION 14: Transport Information

Domestic regulation

49 CFR

Not regulated as a dangerous good

Remarks: IMO/IMDG: NOT REGULATED Not dangerous according to transport regulations.

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory Information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2)Final Significant New Use Rules (SNURs)(40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

US. EPCRA (SARA Title II) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

SARA311/312 Hazardous Chemical

Chemical Identity

Threshold Planning Quantity

None present or none present in regulated quantities.

SARA 313(TRI Reporting)

Reporting threshold for

Chemical Identity

other users

Aluminium oxide

Otherwise used (non-manufacturing/processing)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

US. New Jersey Worker and Community Right-to-Know Act Chemical Identity

Aluminium oxide

US. Massachusetts RTK - Substance List Chemical Identity

Aluminium oxide

US. Pennsylvania RTK - Hazardous Substances Chemical Identity

Aluminium oxide

US. Rhode Island RTK Chemical Identity

Aluminium oxide

SECTION 16: Other Information

Further information

It must be recognized that the physical and chemical properties of any product may not be fully

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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.