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

Product Name: SiSiB® OP3160  
 Chemical Name: Coupling agent; Crosslinking agents; Surface modifier

**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****2.1 Classification of the substance or mixture**

The product has not been classified as hazardous according to the legislation in force.

**Classification according to Regulation (EC) No 1272/2008 as amended.**

Not classified

**Label Elements**

Not applicable

**Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**SECTION 3: Composition/information on ingredients****Mixtures****General information:**

Reaction product of: 3-glycidyoxypropyl trialkoxysilane and water, aqueous solution.

Polymers are exempt from REACH registration. The monomers of this polymer are registered pursuant to EC Regulation No. 1907/2006 (REACH).

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	M-Factor:
methanol	<0.5%	67-56-1	200-659-6	*****	No data available.	No data available.

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by

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volume.

This substance has workplace exposure limit(s).

This substance is listed as SVHC.

#### Classification

Chemical name	Classification	Notes
methanol	Flam. Liq.: 2: H225; Acute Tox.: 3: H301; Acute Tox.: 3: H311; Acute Tox.: 3: H331; Acute Tox.: 3: H331; STOT SE: 1: H370;	No data available.

CLP: Regulation No. 1272/2008.

The full text for all H-statements is displayed in section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### Inhalation:

If aerosol or mists are formed: If necessary: Provide with fresh air.

#### Eye contact:

Rinse thoroughly with plenty of water keeping eyelid open. In case of persistent discomfort: Consult an ophthalmologist.

#### Skin Contact:

Wash off with plenty of water and soap.

#### Ingestion:

Have the mouth rinsed with water. After absorbing large amounts of substance / In case of discomfort: Supply with medical care.

### 4.2 Most important symptoms and effects, both acute and delayed:

None known.

### 4.3 Indication of any immediate medical attention and special treatment needed

#### Hazards:

None known.

#### Treatment:

After absorbing large amounts of substance:

Administration of activated charcoal. Acceleration of gastrointestinal passage.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media:

Water spray. foam Carbon Dioxide. dry powder.

#### Unsuitable extinguishing media:

No data available.

**5.2 Special hazards arising from the substance or mixture:**

Standard procedure for chemical fires.

**5.3 Advice for firefighters****Special fire fighting procedures:**

Water used to extinguish fire should not enter drainage systems, soil or stretches of water. Ensure there are sufficient retaining facilities for water used to extinguish fire. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**Special protective equipment for fire-fighters:**

In case of fire: wear a self-contained respiratory apparatus.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures:**

Use personal protective equipment.

**6.1.1 For non-emergency personnel:**

No data available.

**6.1.2 For emergency responders:**

No data available.

**6.2 Environmental Precautions:**

Do not allow entrance in sewage water, soil stretches of water, groundwater, drainage systems.

**6.3 Methods and material for containment and cleaning up:**

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Transfer into suitable containers. To be disposed of in compliance with existing regulations.

**6.4 Reference to other sections:**

Wear personal protective equipment; see section 8. Disposal considerations; see section 13.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling:**

Handle in accordance with good industrial hygiene and safety practice. The personal protective equipment used must meet the requirements of directive 89/686/EEC and amendments (CE certification). If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used. If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used. Do not breathe in vapors or aerosols. Avoid contact with skin and eyes. Observe the rules usually applicable when handling chemicals.

**7.2 Conditions for safe storage, including any incompatibilities:**

Keep containers tightly closed in a cool, well-ventilated place. Keep tightly sealed in original packing.

Protect from frost. Normal measures for preventive fire protection.

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**7.3 Specific end use(s):**

No data available.

**SECTION 8: Exposure Controls/Personal Protection****8.1 Control Parameters****Occupational Exposure Limits**

Chemical name	Type	Exposure Limit Values	Source
methanol	TWA	200 ppm 266 mg/m <sup>3</sup>	None
	STEL	250 ppm 333 mg/m <sup>3</sup>	None
	TWA	200 ppm 260 mg/m <sup>3</sup>	None

**8.2 Exposure controls****Appropriate Engineering Controls:**

Provide for good ventilation if vapours/aerosols are formed.

**Individual protection measures, such as personal protective equipment****Eye/face protection:**

Safety glasses

**Hand Protection:**

Material: Butyl rubber.

Break-through time:  $\geq$  480 min

Glove thickness: 0.5 mm

Material: Fluorinated rubber (Viton)

Break-through time:  $\geq$  480 min

Glove thickness: 0.4 mm

Additional Information: Selection of protective gloves to meet the requirements of specific workplaces., Suitability for specific workplaces should be clarified with protective glove manufacturers., The information is based on our own tests, references from the literature and information from glove manufacturers, or derived by analogy with similar materials., Please observe that the daily duration of usage of a chemical protective glove is in practice far shorter due to the many influencing factors (e.g. temperature, mechanical strain on the glove material) than the permeation time determined acc. EN 374.

**Skin and Body Protection:**

No special protective equipment required.

**Respiratory Protection:**

In case of dusts/vapors/aerosols being formed or if the limit values like TLV are exceeded: use respiratory equipment with suitable filter (filter type ABEK) or wear a self-contained respiratory apparatus Use only respiratory protection equipment with CE-symbol including four digit test number. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is

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exceeded, self-contained breathing apparatus must be used. Note time limit for wearing respiratory protective equipment.

**Hygiene measures:**

When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work. Remove contaminated or saturated clothing. Wash contaminated clothing before reuse.

**Environmental Controls:**

No data available.

**SECTION 9: Physical and Chemical Properties****Information on basic physical and chemical properties**

Physical state	liquid
Form	liquid
Color	colourless
Odor	Odorless
Odor Threshold	no data available
pH	approx. 3 (20 °C)
Melting point/range	no data available
Freezing point	no data available
Boiling point	100 °C (1,013 hPa)
Flash point	> 98 °C (Pensky-Martens, Closed Cup)
Evaporation rate	not determined
Flammability (solid, gas)	no data available
Flammability Limit - Upper (%):	not determined
Flammability Limit - Lower (%):	not determined
Vapor pressure	25 hPa (20 °C)
Vapor density (air=1)	No data available.
Density	1.091 g/cm <sup>3</sup> (20 °C) (DIN 51757)
Relative density	No data available
Solubility in Water	miscible
Solubility (other)	No data available
Partition coefficient (n-octanol/water)	not determined
Self Ignition Temperature	No data available.
Decomposition Temperature	not determined
Kinematic viscosity	No data available.
Dynamic viscosity	approx. 6.7 mPa.s (20 °C, DIN 53 015)
Explosive properties	No data available
Oxidizing properties	No data available
Minimum ignition temperature	not determined

**SECTION 10: Stability And Reactivity****10.1 Reactivity:**

No dangerous reaction known under conditions of normal use.

**10.2 Chemical Stability:**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions:**

No dangerous reactions known.

**10.4 Conditions to avoid:**

Protect from frost.

**10.5 Incompatible Materials:**

None known.

**10.6 Hazardous Decomposition Products:**

None known.

**SECTION 11: Toxicological Information****Information on likely routes of exposure****Inhalation:**

No data available.

**Ingestion:**

No data available.

**Skin Contact:**

No data available.

**Eye contact:**

No data available.

**11.1 Information on toxicological effects Acute toxicity****Oral**

**Product:** No data available.

**Components:**  
methanol LD 50 (Rat): 100 mg/kg

**Dermal**

**Product:** No data available.

**Components:**  
methanol LD 50 (Rat): 300 mg/kg

**Inhalation**

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**Product:** No data available.

**Components:**

methanol LC 50 (Rat, 4 h)3 mg/l Vapor  
Dusts, mists and fumes

**Repeated dose toxicity**

**Product:** No data available.

**Components:**

methanol No data available.

**Skin Corrosion/Irritation:**

**Product:** No data available.

**Components:**

methanol literature (Rabbit): Not irritating

**Serious Eye Damage/Eye**

**Irritation:**

**Product:** No data available.

**Components:**

methanol (Rabbit): Not irritating

**Respiratory or Skin**

**Sensitization:**

**Product:** No data available.

**Components:**

methanol OECD Test Guideline 406 (Guinea Pig)Not a skin sensitizer.  
Not Classified

**Germ Cell Mutagenicity**

**In vitro**

**Product:** Ames test (OECD TG 471): no evidence of mutagenic effects

**Components:**

methanol gene mutation (OECD TG 471): negative  
Genetic mutation in mammal cells (OECD TG 476): negative  
Micronucleus test: negative

**In vivo**

**Product:** No data available.

**Components:**

methanol Micronucleus test Intraperitoneal (Mouse, male/female): negative

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Chromosomal aberration (OECD TG 474) Intraperitoneal (Mouse, male/female): negative  
Based on available data, the classification criteria are not met.

### Carcinogenicity

**Product:** No data available.

**Components:**  
methanol Not classified

### Reproductive toxicity

**Product:** No data available.

**Components:**  
methanol Not classified

### Specific Target Organ Toxicity - Single Exposure

**Product:** No data available.

**Components:**  
methanol optic nerve, Central nervous system. - Category 1

### Specific Target Organ Toxicity - Repeated Exposure

**Product:** No data available.

**Components:**  
methanol Not classified

### Aspiration Hazard

**Product:** No data available.

**Components:**  
methanol Not classified

## SECTION 12: Ecological Effects

### 12.1 Toxicity

#### Acute toxicity

##### Fish

**Product:** No data available.

**Components:**  
methanol LC 50 (Lepomis macrochirus (Bluegill sunfish), 96 h): 15,400 mg/l  
(US-EPA) literature

#### Aquatic Invertebrates



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**Product:** No data available.

**Components**

methanol EC 50 (Daphnia magna (Water flea), 96 h): 18,260 mg/l (OECD Test Guideline 202) literature

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Components**

methanol No data available.

**Toxicity to microorganisms**

**Product:** No data available.

**Components**

methanol IC50 (Clarification sludge, 3 h): > 1,000 mg/l (OECD TG 209) literature

**Chronic Toxicity**

**Fish**

**Product:** No data available.

**Components**

methanol No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Components**

methanol No data available.

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Components**

methanol No data available.

**12.2 Persistence and Degradability**

**Biodegradation**

**Product:** No data available.

**BOD/COD Ratio**

**Product** No data available.

**Components**

methanol No data available.

**12.3 Bioaccumulative potential**

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**Product:** No data available.

**12.4 Mobility in soil:** No data available.

**12.5 Results of PBT and vPvB assessment:**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

methanol Non-classified vPvB substance, Nonclassified PBT substance

**12.6 Other adverse effects:** An Expert Judgment stated that no classification is necessary based on present knowledge.

**12.7 Additional Information:** No ecotoxicological studies are available on the mixture.

## SECTION 13: Disposal considerations

### Waste treatment methods

#### General information:

No data available.

#### Disposal methods:

No waste key number as per the European Waste Types List can be assigned to this product, since such classification is based on the (as yet undetermined) use to which the product is put by the consumer. With respect to local regulations, e.g. dispose of to suitable waste incineration plant. The waste key number must be determined as per the European Waste Types List (decision on EU Waste Types List 2000/532/EC) in cooperation with the disposal firm / producing firm / official authority.

#### Contaminated Packaging:

Packaging, that can't be reused after cleaning must be disposed or recycled in accordance with all federal, national and local regulations.

Incorrect disposal or reuse of this container is illegal and can be dangerous.

Other countries: observe the national regulations.

## SECTION 14: Transport Information

### 14.1 UN number

Not regulated as a dangerous good

### 14.2 UN proper shipping name

Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

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Not regulated as a dangerous good

**14.4 Packing group**

Not regulated as a dangerous good

**14.5 Environmental hazards**

Not regulated as a dangerous good

**14.6 Special precautions for user**

Not applicable

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable for product as supplied.

**SECTION 15:Regulatory Information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU Regulations**

EU. Directive 2012/18/EU on major accident hazards involving dangerous substances,

Annex I: Not applicable

**15.2 Chemical safety assessment:**

No Chemical Safety Assessment has been carried out.

**International regulations****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.