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

Product Name: SiSiB® PC9811  
 Chemical Name: Trimethylsilyl trifluoromethanesulfonate  
 CAS-No.: 27607-77-8

**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****Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Flammable liquids Category 3 H226  
 Skin corrosion Category 1B H314

For the full text of the H-Statements mentioned in this Section, see Section 16.

**Label elements****Labelling according Regulation (EC) No 1272/2008**

Pictogram

Signal word

Danger

Hazard statement(s)

H226

Flammable liquid and vapor.

H314

Causes severe skin burns and eye damage.

Precautionary statement(s)

P280

Wear protective gloves/ protective clothing/ eye protection/ face protection.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310

Immediately call a POISON CENTER/doctor.

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Supplemental Hazard Statements (EU)

EUH014 Reacts violently with water.

**Other hazards**

Reacts violently with water.

### SECTION 3: Composition/information on ingredients

**Substances**

Formula: C<sub>4</sub>H<sub>9</sub>F<sub>3</sub>O<sub>3</sub>SSi

Molecular weight: 222.26 g/mol

CAS-No. : 27607-77-8

EC-No. : 248-565-4

**Hazardous ingredients according to Regulation (EC) No 1272/2008**

Component	Classification	Concentration
<b>Trimethylsilyl trifluoromethanesulphonate</b>		
CAS-No. 27607-77-8 EC-No.248-565-4	Flam. Liq. 3; Skin Corr. 1B; H226, H314	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

### SECTION 4: First aid measures

**Description of first aid measures**

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**Indication of any immediate medical attention and special treatment needed**

no data available

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**SECTION 5: Firefighting measures****Extinguishing media****Suitable extinguishing media**

Dry powder

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

Flash back possible over considerable distance. Container explosion may occur under fire conditions.

**Advice for firefighters**

Wear self-contained breathing apparatus for fire fighting if necessary.

**Further information**

No data available

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

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

For personal protection see section 8.

**Environmental precautions:**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods and materials for containment and cleaning up**

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water.

**Reference to other sections**

For disposal see section 13.

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

Avoid inhalation of vapor or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

For precautions see section 2.

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

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Keep away from water. Never allow product to get in contact with water during storage.

Handle and store under inert gas. Air sensitive.

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**Specific end uses**

Apart from the uses mentioned in section 1 no other specific uses are stipulated

**SECTION 8: Exposure Controls/Personal Protection****Control parameters****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**Exposure controls****Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal protective equipment****Eye/face protection**

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Body Protection**

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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

a) Appearance

Form: clear, liquid

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	Color: colorless
b) Odor	no data available
c) Odor Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	no data available
f) Initial boiling point and boiling range	77 °C at 107 hPa
g) Flash point	25 °C - closed cup
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	no data available
k) Vapor pressure	4.7 hPa at 20 °C 15 hPa at 38 °C 29.1 hPa at 50 °C
l) Vapor density	no data available
m) Relative density	1.228 g/mL at 25 °C
n) Water solubility	no data available
o) Partition coefficient: n-octanol/water	no data available
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties	no data available
t) Oxidizing properties	no data available

**Other safety information**

no data available

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

no data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

Reacts violently with water.

**Conditions to avoid**

Heat, flames and sparks. Exposure to moisture

**Incompatible materials**

Strong oxidizing agents, Strong bases

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sulphur oxides,

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Hydrogen fluoride, silicon oxides

Other decomposition products - No data available

In the event of fire: see section 5

**SECTION 11: Toxicological Information****Information on toxicological effects****Acute toxicity**

No data available

**Skin corrosion/irritation**

No data available

**Serious eye damage/eye irritation**

No data available

**Respiratory or skin sensitization**

no data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**Additional Information**

RTECS: Not available

**SECTION 12: Ecological Effects****Toxicity**

no data available

**Persistence and degradability**

no data available

**Bioaccumulative potential**

no data available

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**Mobility in soil**

no data available

**Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects**

no data available

## SECTION 13: Disposal considerations

**Waste treatment methods**

**Product:**

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

## SECTION 14: Transport Information

**UN number**

ADR/RID: 2920

IMDG: 2920

IATA: 2920

**UN proper shipping name**

ADR/RID: CORROSIVE LIQUID, FLAMMABLE, N.O.S. (Trimethylsilyl trifluoromethanesulphonate)

IMDG: CORROSIVE LIQUID, FLAMMABLE, N.O.S. (Trimethylsilyl trifluoromethanesulphonate)

IATA: Corrosive liquid, flammable, n.o.s. (Trimethylsilyl trifluoromethanesulphonate)

**Transport hazard class(es)**

ADR/RID: 8 (3)

IMDG: 8 (3)

IATA: 8 (3)

**Packing group**

ADR/RID: II

IMDG: II

IATA: II

**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**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out

**SECTION 16: Other Information****Full text of H-Statements referred to under sections 2 and 3.**

EUH014	Reacts violently with water.
H226	Flammable liquid and vapor.
H314	Causes severe skin burns and eye damage.

**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.