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

Product Identifier

Product Name: SiSiB® PC5424

Chemical Name: Ethyl Polysilicate 40, Ethyl Silicate 40

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

According to Regulation (EC) No1272/2008

Flammable liquids (Category 3)

Skin irritation (Category 2)

Eye irritation (Category 2)

According to European Directive 67/548/EEC as amended.

Flammable. Irritating to eyes, respiratory system and skin.

Label elements

Pictogram



Pictogram

Signal word

Danger

Hazard statement(s)

H226 Flammable liquid and vapor.

H302 Harmful if swallowed.

H332 Harmful if inhaled.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

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P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/ protective clothing/eye protective/face protective.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to licensed waste disposal facility.
Other hazards	none
For additional information on toxicity, please refer to Section 11.	

SECTION 3: Composition/information on ingredients

Information on ingredients / Hazardous components

Silicic acid tetraethyl ester, hydrolyzed >90%

CAS-No.	11099-06-2	
EC-No.	270-184-7	
Flam.	Liq. 3,	H226
Eye	Irrit.2A,	H319
Tetraethyl silicate	<10%	
CAS-No.	78-10-4	
EC-No.	201-083-8	
Flam.	Liq. 3,	H226
Acute	Tox. 4 (Inhalation: vapor),	H332
Eye	Irrit. 2A,	H319
STOT	SE 3,	H335

SECTION 4: First aid measures

If inhaled

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If aerosol or mists are formed:

If necessary see that there is fresh air.

In case of skin contact

Wash off with plenty of water and soap.

In case of eye contact

Rinse thoroughly with plenty of water keeping eyelid open.

In case of persistent discomfort: Consult an ophthalmologist.

If swallowed

Have the mouth rinsed with water.

After absorbing large amounts of substance / In case of discomfort: Supply with medical care.

Notes to physician

after absorbing large amounts of substance:

administration of activated charcoal.

acceleration of the gastro-intestinal tract

SECTION 5: Firefighting measures

Suitable extinguishing media

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Further information

Under fire conditions, material may decompose to form flammable and/or explosive mixtures in air. Use water. spray to cool unopened containers.

SECTION 6: Accidental release measures

Personal precautions

Ensure adequate ventilation.

Environmental precautions

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

Methods for 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.

Suitable binder: sand (for damming up), sawdust, universal absorbent

SECTION 7: Handling and storage**Handling**

Safe handling advice

Provide good ventilation or extraction.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharges.

Storage

Requirements for storage areas and containers

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

Protect from moisture.

SECTION 8: Exposure Controls/Personal Protection**Personal protective equipment****Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose 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).

Hand protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

Eye protection

Safety glasses

Hygiene measures

Choose body protection according to the amount and concentration of the dangerous substance at the work Place.

SECTION 9: Physical and Chemical Properties

CAS No	11099-06-2 or 68412-37-3
EINECS No	234-324-0 or 270-184-7
Appearance	Form liquid
Color	colorless
Odor	ester-like

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pH	not determined
Solidification point	ca. -60 °C Stock point
Boiling point/range	ca. 160 °C (1013 hPa) start of boiling
Flash point	48 °C
Ignition temperature	235 °C
Lower explosion limit Method	not applicable
Upper explosion limit Method	not applicable
Vapor pressure	< 2,00 hPa (20 °C)
Density	ca. 1,06 g/cm ³ (20 °C)
Water solubility	not miscible
Decomposition	by hydrolysis
Viscosity	dynamic 5 mPas (20 °C)

Further information

Other information Vapors can form explosive mixtures with air.

SECTION 10: Stability And Reactivity

Storage stability

May decompose on exposure to moist air or water. Stable under recommended storage conditions.

Conditions to avoid

Heat, flames and sparks.

Materials to avoid

Strong oxidizing agents, Strong acids.

Hazardous decomposition products

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

SECTION 11: Toxicological Information

Acute toxicity

No data available

Irritation and corrosion

No data available

Sensitization

No data available

Chronic exposure

No data available

Signs and Symptoms of Exposure

No data available

Potential Health Effects

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Inhalation	Harmful if inhaled. Causes respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	Causes eye irritation.
Ingestion	May be harmful if swallowed.
Target Organs	Liver, Kidney, Lungs, Blood, Eyes.

SECTION 12: Ecological Effects**Elimination information**

No data available

Ecotoxicity effects

No data available

Further information on ecology

No data available

SECTION 13: Disposal considerations**Product:**

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport Information**ADR/RID**

UN-Number:	3272
Class:	3
Packing group:	III
Proper shipping name:	Esters, N.O.S. (Tetraethoxysilane-40)

IMDG

UN-Number:	3272
Class:	3
Packing group:	III
EMS-No:	F-E, S-D
Proper shipping name:	Esters, N.O.S. (Tetraethoxysilane-40)
Marine pollutant:	No

IATA

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UN-Number: 3272
 Class: 3
 Packing group: III
 Proper shipping name: Esters, N.O.S. (Tetraethoxysilane-40)

SECTION 15:Regulatory Information

EINECS/ELINCS (EU): Yes
 AICS (Australia): Yes
 DSL/NDSL (Canada): Yes
 PICCS (Philippines): Yes
 TSCA (USA): Yes
 IECS (P.R. China): Yes
 ENCS (Japan): Yes
 ECL (South Korea): Yes

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.