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

### Product Identifier

Product Name: SiSiB® PC16517  
Chemical Name: Cyclopentasiloxane (and) Dimethicone Crosspolymer

### Relevant identified uses of the substance or mixture and uses advised against

Relevant applications identified: Cosmetics

### 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

Not a hazardous substance or mixture.

### Label elements

No labeling according to GHS required.

### Hazard statements

Not classified based on available information.

### Precautionary statements

Not classified based on available information.

### Physical and chemical hazards

Not classified based on available information.

### Health hazards

Not classified based on available information.

### Environmental hazards

Not classified based on available information.

### Other hazards

No data available

## SECTION 3: Composition/information on ingredients

This product is a mixture.

Component	CAS #	CONTENT %
Cyclopentasiloxane	541-02-6	87-89
Dimethicone crosspolymer	213629-14-2	11-13

## SECTION 4: First aid measures

### Protection of first-aiders

Get medical attention if irritation or other symptoms occur. Take a copy of the Safety Data Sheet when going for medical treatment.

### Inhalation

Material cannot be inhaled under normal conditions. No special treatment required.

### Skin contact

After skin contact wipe off excess material with cloth or paper. Use a waterless hand cleaner to remove as much of the remaining material as possible. Wash with soap and water.

### Eye contact

If contact with eyes, immediately hold eyelids apart and flush with plenty of water for at least 15 min. Get medical attention if irritation occurs.

### Ingestion

No special measures are required after swallowing.

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

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

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

### Notes to physician

No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

## SECTION 5: Firefighting measures

### Extinguishing media

#### Suitable extinguishing media

Alcohol-resistant foam. Dry sand. Dry chemical.

#### Unsuitable extinguishing media

High volume water jet. Do not use direct water stream.

### Special hazards arising from the substance or mixture

#### Hazardous combustion products

Silicon oxides. Carbon oxides. Formaldehyde.

### Unusual Fire and Explosion Hazards

Flash back possible over considerable distance. Exposure to combustion products may be a hazard to health. Closed containers may rupture via pressure build-up when exposed to fire or extreme heat. Fire burns more vigorously than would be expected. Vapors may form explosive mixtures with air.

**Advice for firefighters**

**Fire Fighting Procedures**

Use water spray to cool unopened containers. Evacuate area. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Do not use a solid water stream as it may scatter and spread fire.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Remove undamaged containers from fire area if it is safe to do so.

**Special protective equipment for firefighters**

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

**SECTION 6: Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.

**Environmental precautions:**

Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

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

Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knockdown) gases/vapors/mists with a water spray jet. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur.

**SECTION 7: Handling and storage**

**Precautions for safe handling**

Avoid inhalation of vapor or mist. Avoid contact with eyes. Do not swallow. Avoid prolonged or repeated contact with skin. Keep container tightly closed. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment. Handle in accordance with good industrial hygiene and safety practice.

CONTAINERS MAY BEHAZARDOUS WHEN EMPTY. Since emptied containers retain product residue follow all (M)SDS and label warning seven after container is emptied.

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Use with local exhaust ventilation. See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

**Conditions for safe storage**

Keep in properly labelled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition.

Do not store with the following product types: Strong oxidizing agents. Explosives. Gases. Unsuitable materials for containers: None known.

**SECTION 8: Exposure Controls/Personal Protection**

**Control parameters**

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

Component	Regulation	Type of listing	Value
Decamethylcyclopentasiloxane	USWEEL	TWA	10ppm

**Exposure controls**

**Engineering controls**

Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

**Individual protection measures**

**Eye/face protection**

Use safety glasses (with side shields).

**Skin protection**

**Hand protection**

Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Examples of preferred glove barrier materials include: Butyl rubber. Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl alcohol ("PVA"). Polyvinyl chloride ("PVC" or "vinyl"). Viton. Examples of acceptable glove barrier materials include: Natural rubber ("latex"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/ specifications provided by the glove supplier.

**Other protection**

Wear clean, body- covering clothing.

**Respiratory protection**

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Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator. The following should be effective types of air-purifying respirators: Organic vapor cartridge.

**SECTION 9: Physical and Chemical Properties**

**Information on basic physical and chemical properties**

Physical state	viscous liquid
Appearance	colorless translucent gel
Color	colorless
Odor	slight
Odor Threshold	no data available
pH	no data available
Melting point/freezing point	no data available
Boiling point (760mmHg)	>35°C
Flash point:	Seta closed cup>106°C
Evaporation rate (Butyl Acetate=1)	no data available
Flammability (solid, gas)	not applicable
Flammability(liquids)	not applicable
Upper/lower flammability or explosive limits	no data available
Vapor pressure	no data available
Relative Vapor Density (air=1)	no data available
Relative Density(water=1)	0.94
Water solubility:	no data available
Partition coefficient: n-octanol/water	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available
Viscosity	260,000-460,000mPa.s
Explosive properties	not explosive
Oxidizing properties	The substance or mixture is not classified as oxidizing.
Solid Content	11.0-13.0%
Particle size	not applicable

**SECTION 10: Stability And Reactivity**

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**Reactivity**

Not classified as a reactivity hazard.

**Chemical stability**

Stable under normal conditions.

**Possibility of hazardous reactions**

Can react with strong oxidizing agents. Vapors may form explosive mixture with air. Combustible liquid.

**Conditions to avoid**

Heat, flames and sparks.

**Incompatible materials**

Oxidizing agents.

**Hazardous decomposition products**

Decomposition products can include and are not limited to: Formaldehyde.

**SECTION 11: Toxicological Information**

Toxicological information appears in this section when such data is available.

**Exposure routes**

Inhalation, Eye contact, Skin contact, Ingestion.

**Acute toxicity (represents short term exposures with immediate effects - no chronic/delayed effects)**

**Acute Toxicity Endpoints**

Not classified based on available information.

**Acute oral toxicity**

**Information for the Product:**

Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.

As product: Single dose oral LD50 has not been determined.

Based on information for component(s):

LD50, > 5,000 mg/kg Estimated.

**Information for components:**

**Decamethylcyclopentasiloxane** LD50, Rat, male and female, > 24,134 mg/kg

**Octamethyl Cyclotetrasiloxane** LD50, Rat, male, > 4,800 mg/kg No deaths occurred at this concentration.

**Acute dermal toxicity**

**Information for the Product:**

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

As product: The dermal LD50 has not been determined.

Based on information for component(s):

LD50, > 2,000 mg/kg Estimated.

**Information for components:**

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**Decamethylcyclopentasiloxane** LD50, Rabbit, male and female, > 2,000 mg/kg No deaths occurred at this concentration.

**Octamethyl Cyclotetrasiloxane** LD50, Rat, male and female, > 2,400 mg/kg No deaths occurred at this concentration.

**Acute inhalation toxicity**

**Information for the Product:**

Brief exposure (minutes) is not likely to cause adverse effects. Excessive exposure may cause:  
 Respiratory irritation

As product: The LC50 has not been determined.

**Information for components:**

**Decamethylcyclopentasiloxane** LC50, Rat, male and female, 4 Hour, dust/mist, 8.67 mg/

**Octamethyl Cyclotetrasiloxane** LC50, Rat, male and female, 4 Hour, dust/mist, 36 mg/1 OECD Test Guideline 403

**Skin corrosion/irritation**

Not classified based on available information

**Information for the Product:**

Based on information for component(s):

Brief contact is essentially nonirritating to skin.

**Information for components:**

**Decamethylcyclopentasiloxane** Prolonged contact is essentially nonirritating to skin.

**Octamethyl Cyclotetrasiloxane** Brief contact is essentially nonirritating to skin

**Serious eye damage/eye irritation**

Not classified based on available information.

**Information for the Product:**

Based on information for component(s):

Essentially nonirritating to eyes.

**Information for components:**

**Decamethylcyclopentasiloxane** Essentially nonirritating to eyes.

**Octamethyl Cyclotetrasiloxane** Essentially nonirritating to eyes.

**Sensitization**

**For skin sensitization:**

Not classified based on available information

**For respiratory sensitization:**

Not classified based on available information.

**Information for the Product:**

For skin sensitization:

Contains component(s) which have not demonstrated the potential for contact allergy in mice.

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For respiratory sensitization:

No relevant data found.

**Information for components:**

**Decamethylcyclopentasiloxane**

Did not demonstrate the potential for contact allergy in mice.

For respiratory sensitization:

No relevant data found.

**Octamethyl Cyclotetrasiloxane**

Did not cause allergic skin reactions when tested in guinea pigs.

For respiratory sensitization:

No relevant data found.

**Specific Target Organ Systemic Toxicity (Single Exposure)**

Not classified based on available information.

**Information for the Product:**

Product test data not available.

**Information for components:**

**Decamethylcyclopentasiloxane**

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

**Octamethyl Cyclotetrasiloxane**

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

**Aspiration Hazard**

Not classified based on available information.

**Information for the Product:**

Based on physical properties, not likely to be an aspiration hazard.

**Information for components:**

**Decamethylcyclopentasiloxane**

Based on physical properties, not likely to be an aspiration hazard.

**Octamethyl Cyclotetrasiloxane**

Material is not classified as an aspiration hazard based on insufficient data, however material with low viscosity may be aspirated into the lungs during ingestion or vomiting.

**Chronic toxicity (represents longer term exposures with repeated dose resulting in chronic/delayed effects- no immediate effects known unless otherwise noted)**

**Specific Target Organ Systemic Toxicity (Repeated Exposure)**

Not classified based on available information

**Information for the Product:**

Product test data not available

**Information for components:**

**Decamethylcyclopentasiloxane**

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Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

**Octamethyl Cyclotetrasiloxane**

In animals, effects have been reported on the following organs:

Kidney.

Liver.

Respiratory tract.

**Carcinogenicity**

Not classified based on available information.

**Information for the Product:**

Product test data not available.

**Information for components:**

**Decamethylcyclopentasiloxane**

Results from a 2 year repeated vapor inhalation exposure study to rats of decamethylcyclopentasiloxane (D5) indicate effects (uterine endometrial tumors in female animals. This finding occurred at the highest exposure dose(160ppm) only. Studies to date have not demonstrated if this effect occurs through a pathway that is relevant to humans.

**Octamethyl Cyclotetrasiloxane**

Results from a 2 year repeated vapor inhalation exposure study to rats of octamethylcyclotetrasiloxane (D4) indicate effects (benign uterine adenomas) in the uterus of female animals. This finding occurred at the highest exposure dose (700 ppm) only. Studies to date have not demonstrated if these effects occur through pathways that are relevant to humans. Repeated exposure in rats to D4 resulted in protoporphyrin accumulation in the liver.

Without knowledge of the specific mechanism leading to the protoporphyrin accumulation the relevance of this finding to humans is unknown.

**Teratogenicity**

Not classified based on available information.

**Information for the Product:**

Product test data not available

**Information for components:**

**Decamethylcyclopentasiloxane**

Did not cause birth defects or any other fetal effects in laboratory animals.

**Octamethyl Cyclotetrasiloxane**

Did not cause birth defects or any other fetal effects in laboratory animals.

**Reproductive toxicity**

Not classified based on available information.

**Information for the Product:**

Product test data not available.

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**Information for components:**

**Decamethylcyclopentasiloxane**

In animal studies, did not interfere with reproduction.

**Octamethyl Cyclotetrasiloxane**

In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals. In animal studies, has been shown to interfere with fertility

**Mutagenicity**

Not classified based on available information.

**Information for the Product:**

Product test data not available.

**Information for components:**

**Decamethylcyclopentasiloxane**

In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

**Octamethyl Cyclotetrasiloxane**

In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

**SECTION 12: Ecological Effects**

Ecotoxicological information appears in this section when such data are available.

**Ecotoxicity**

**Decamethylcyclopentasiloxane**

**Acute toxicity to fish**

Not expected to be acutely toxic to aquatic organisms.

No toxicity at the limit of solubility

LC50, Oncorhynchus mykiss (rainbow trout), 96 Hour, > 16 µg/l, OECD Test Guideline 204 or Equivalent

**Acute toxicity to aquatic invertebrates**

No toxicity at the limit of solubility

EC50, Daphnia magna, 48 Hour, > 2.9 mg/l, OECD Test Guideline 202 or Equivalent

**Acute toxicity to algae/aquatic plants**

No toxicity at the limit of solubility

ErC50, Pseudokirchneriella subcapitata (green algae), 96 Hour, Growth rate, > 0.012 mg/l

No toxicity at the limit of solubility

NOEC, Pseudokirchneriella subcapitata (green algae), 96 Hour, Growth rate, 0.012 mg/l

**Chronic toxicity to fish**

No toxicity at the limit of solubility LC50, Oncorhynchus mykiss (rainbow trout), 14 d, > 16 mg/l

No toxicity at the limit of solubility

NOEC, Oncorhynchus mykiss (rainbow trout), 45 d, >= 0.017 mg/l

No toxicity at the limit of solubility

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NOEC, Oncorhynchus mykiss (rainbow trout), 90 d,  $\geq 0.014$  mg/l

**Chronic toxicity to aquatic invertebrates**

NOEC, Daphnia magna, 21 d, 0.015 mg/l

**Toxicity to soil-dwelling organisms**

This product does not have any known adverse effect on the soil organisms tested.

NOEC, Eisenia fetida (earthworms),  $\geq 76$  mg/kg

**Octamethyl Cyclotetrasiloxane**

**Acute toxicity to fish**

Based on testing of comparable products: The estimated maximum aqueous concentration of Octamethyl Cyclotetrasiloxane (D4) from migration to water from the product as supplied is below the D4 established no-effect threshold ( $< 0.0079$  mg/L) for aquatic organisms.

**Chronic toxicity to aquatic invertebrates**

Based on testing for product(s) in this family of materials:

Not classified due to data which are conclusive although insufficient for classification.

**Persistence and Degradability**

**Decamethylcyclopentasiloxane**

**Biodegradability:** Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability.

10-day Window: Not applicable

**Biodegradation:** 0.14 %

**Exposure time:** 28 d

**Method:** OECD Test Guideline 310

**Photodegradation**

**Test Type:** Half-life (indirect photolysis)

**Sensitization:** OH- radicals

**Atmospheric half-life:** 7.15 d

**Method:** Estimated.

**Octamethyl Cyclotetrasiloxane**

**Biodegradability:** Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability.

10-day Window: Not applicable

**Biodegradation:** 3.7%

**Exposure time:** 28 d

**Method:** OECD Test Guideline 310

**Stability in Water (1/2-life)**

Hydrolysis, DT50, 3.9 d, pH 7, Half-life Temperature 25 °C, OECD Test Guideline 111

**Bioaccumulative Potential**

**Decamethylcyclopentasiloxane**

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**Bioaccumulation:** Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5).

**Partition coefficient:** n-octanol/water(log Pow):5.2 Measured

**Bioconcentration factor (BCF):** 2,010 Fish Estimated.

**Octamethyl Cyclotetrasiloxane**

**Bioaccumulation:** Bioconcentration potential is high (BCF > 3000 or Log Pow between 5 and 7).

**Partition coefficient:** n-octanol/water(log Pow):6.49 Measured

**Bioconcentration factor (BCF):** 12,400 Pimephales promelas(fathead minnow) Measured

**Mobility in Soil**

**Decamethylcyclopentasiloxane**

Partition coefficient (Koc): > 5000 Estimated.

**OctamethylCyclotetrasiloxane**

Partition coefficient (Koc): 16596 OECD Test Guideline 106

**Results of PBT and vPvB Assessment**

**Decamethylcyclopentasiloxane**

Decamethylcyclopentasiloxane (D5) meets the current REACH Annex XIII criteria for vPvB. However, D5 does not behave similarly to known PBT/vPvB substances. The weight of scientific evidence from field studies shows that D5 is not biomagnifying in aquatic and terrestrial food webs. D5 in air will degrade by reaction with naturally occurring hydroxyl radicals in the atmosphere. Any D5 in air that does not degrade by reaction with hydroxyl radicals is not expected to deposit from the air to water, to land, or to living organisms. Based on an independent scientific panel of experts, the Canadian Minister of the Environment has concluded that "D5 is not entering the environment in a quantity or concentration or under conditions that have or may have an immediate or long-term harmful effect on the environment or its biological diversity, or that constitute or may constitute a danger to the environment on which life depends".

**OctamethylCyclotetrasiloxane**

Octamethylcyclotetrasiloxane (D4) meets the current criteria for PBT and vPvB under REACH Annex XIII or other regionally specific criteria. However, D4 does not behave similarly to known PBT/vPvB substances. The weight of scientific evidence from field studies shows that D4 is not biomagnifying in aquatic and terrestrial food webs. D4 in air will degrade by reaction with naturally occurring hydroxyl radicals in the atmosphere. Any D4 in air that does

**Other adverse effects**

**Decamethylcyclopentasiloxane**

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

**OctamethylCyclotetrasiloxane**

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

### **SECTION 13: Disposal considerations**

#### **Disposal methods**

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility of the waste generator. AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN SDS SECTION 1: Identified Uses. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Incinerator or other thermal destruction device.

For additional information, refer to: Handling & Storage Information, MSDS Section 7 Stability & Reactivity Information, MSDS Section 10 Regulatory Information, MSDS Section 15

#### **Treatment and disposal methods of used packaging**

Empty containers should be recycled or otherwise disposed of by an approved waste management facility. Waste characterizations and compliance with applicable laws are the responsibility of the waste generator. Do not re-use containers for any purpose.

### **SECTION 14: Transport Information**

#### **Classification for ROAD and Rail transport**

Not regulated for transport

#### **Classification for SEA transport (IMO-IMDG)**

Not regulated for transport

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

Consult IMO regulations before transporting ocean bulk

#### **Classification for AIR transport (IATA/ICAO)**

Not regulated for transport

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product.

Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations.

Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

### **SECTION 15: Regulatory Information**

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The following statutes, regulations and standards have the related prescribes on chemicals in terms of safe use, storage, transportation, loading and unloading, classification and symbol etc.

Provisions on the Environmental Administration of New Chemical Substances. The Regulation on Chemicals Safe Use at Working Site

Law on Prevention and Control of Environmental Pollution Caused by Solid Waste.

Occupational Exposure Limits for Hazardous Agent in The workshop Chemical Hazardous Agents (GBZ 2.1).

**China. Inventory of Existing Chemical Substances in China (IECSC) (IECSC)**

All intentional components are listed on the inventory, are exempt, or are supplier certified.

**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.