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

Product Identifier

Product Name:	SiSiB® PC7910
Chemical Name:	Diacetoxydi-tert-butoxysilane
CAS-No.:	13170-23-5
EC-No.:	236-112-3

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 [CLP]

Acute toxicity (Oral)	Category 4	H302
Skin corrosion	Category 1B	H314
Serious eye damage	Category 1	H318

Label elements

Labelling as per (EU) 1272/2008

Statutory basis	EU-CLP as per Regulation (EU) No. 1272/2008
Symbol(s)	
Signal word	Danger
Hazard statement	H302 - Harmful if swallowed. H314 - Causes severe skin burns and eye damage.
Precautionary statement Prevention	P260 - Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.
Precautionary statement Reaction	P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. 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.
P310 - Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.

Precautionary statement Storage P405 - Store locked up.

Precautionary statement Disposal P501 - Dispose of contents/container in accordance with local regulation.

Other hazards

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

SECTION 3: Composition/information on ingredients

Substances

Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No.1272/2008

Diacetoxydi-tert-butoxysilane		
CAS-No. 13170-23-5	EC-No. 236-112-3	
Acute toxicity (Oral)	Category 4	H302
Skin corrosion	Category 1B	H314
Serious eye damage	Category 1	H318
Triacetoxy-tert-butoxysilane	< 5%	
CAS-No. 13170-22-4	EC-No. 236-111-8	
Skin corrosion	Category 1B	H314
Serious eye damage	Category 1	H318
Acetoxytri-tert-butoxysilane	< 5%	
CAS-No. 17947-85-2	EC-No. 241-875-0	
Skin corrosion	Category 1B	H314
Serious eye damage	Category 1	H318

Texts of H phrases, see in Chapter 16

Mixtures

-

SECTION 4: First aid measures

Description of first aid measures

Take off all contaminated clothing immediately.

Inhalation

If aerosol or mists are formed:

Possible discomfort: severe irritation of mucous lining (nose, throat, eyes), cough, sneezing, flow of tears

Move victims into fresh air.

If breathing difficulties occur:

Keep patient half sitting with upper body raised.

Call a physician immediately.

Skin contact

Wash off immediately with plenty of water.

Consult a doctor in the event of permanent skin irritation.

Eye contact

With eye held open, thoroughly rinse immediately with plenty of water for at least 10 minutes.

Continue rinsing process with eye rinsing solution.

Protect unharmed eye.

Call ambulance. (Cue: caustic burn of the eyes)

Immediate further treatment in ophthalmic hospital/ ophthalmologist.

Continue rinsing eye until arrival at ophthalmic hospital.

Ingestion

Do NOT induce vomiting.

Only when patient fully conscious:

Have the mouth rinsed with water.

Have patient drink plenty of water in small sips.

Notify ambulance immediately (keyword: chemical burn).

Most important symptoms and effects, both acute and delayed

Symptoms

None known

Hazards

None known

Indication of any immediate medical attention and special treatment needed

Therapy as for chemical burn.

If substance has been swallowed:

Early endoscopy in order to assess mucosa lesions in the oesophagus and stomach which may appear.

If necessary, suck away leftover substance.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

Water spray jet

Foam

Carbon dioxide (CO_2)
Dry powder

Unsuitable extinguishing media

High volume water jet

Special hazards arising from the substance or mixture

Hazardous fumes in fires, specific to the product:
Acetic acid
Acetic anhydride

Advice for firefighters

Water used to extinguish fi re 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 fi re extinguishing water must be disposed of in accordance with local regulations.
In the case of fire, wear respiratory protective equipment independent of surrounding air and chemical protective suit.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

Environmental precautions

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

Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Fill into marked, sealable containers.
To be disposed of in compliance with existing regulations.
Suitable binder: sand (for damming up)

Reference to other sections

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

SECTION 7: Handling and storage

Precautions for safe handling

Provide good ventilation or extraction.

Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion

Take precautionary measures against static discharges.
Keep away from sources of ignition - No smoking.

Storage

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

Protect from moisture.

Specific end use(s)

No further information available

Applications; see Section 1.

SECTION 8: Exposure Controls/Personal Protection

Control parameters

Other information

No substance-specific limiting value being known.

Exposure controls

Engineering measures

Provide adequate ventilation.

Personal protective equipment

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 exceeded, self-contained breathing apparatus must be used.

Note time limit for wearing respiratory protective equipment.

Hand protection

Glove material	for example, butyl-rubber
Material thickness	0,5 mm
Break through time	>= 480 min
Glove material	for example, Fluorinated rubber (Viton)
Material thickness	0,4 mm
Break through time	>= 480 min

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.

Eye protection

close-fitting protective goggles (e.g. closed goggles)

Skin and body protection

When handling larger quantities:

chemical protective suit, disposable protective clothing, acid-proof (Solvent-resistant)

Hygiene measures

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

Remove immediately all contaminated clothing.

Wash contaminated clothing before re-use.

Protective measures

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.

Use protective clothing / face shield if necessary.

Do not breathe in vapors or aerosols.

Avoid contact with skin and eyes.

SECTION 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance	Form: liquid
Color	colorless to yellowish
Odor	of acetic acid
Odor Threshold	no data available
pH	no data available
Melting point/range	no data available
Boiling point/range	102 °C (7 hPa)
	Method: DIN 51 356
Flash point:	95 °C
	Method: DIN EN ISO 2719 (Pensky-Martens, Closed Cup)
Evaporation rate	no data available
Flammability (solid, gas)	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapor pressure:	no data available
Density	ca. 1,03 g/cm3 (20 °C)
	Method: DIN 51757
Water solubility	not miscible

	decomposition by hydrolysis
Partition coefficient: n-octanol/ water	no data available
Autoinflammability	no data available
Thermal decomposition	no data available
Viscosity, dynamic	7 mPa.s (20 °C) Method: DIN 53 015

Other information

Ignition temperature	no data available
Metal corrosion	no data available

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

Exothermic reaction with:

water

alkalis

alcohols

amines

Conditions to avoid

Protect from moisture.

Incompatible materials

Water, Alcohols, Amines, alkalis

Hazardous decomposition products

Decomposition products in hydrolysis/thermal decomposition

Acetic acid

butanol

Acetic anhydride

SECTION 11:Toxicological Information

Information on toxicological effects

No toxicological tests are available on the product.

Acute oral toxicity	Harmful if swallowed. Acute toxicity estimate: 512,82 mg/kg Method: Calculation method

Acute inhalation toxicity	No data available
Acute dermal toxicity	No data available
Skin irritation	Causes burns.
Eye irritation	Risk of serious damage to eyes.
Sensitization	No data available
Assessment of STOT single exposure	No data available
Assessment of STOT repeat exposure	No data available
Risk of aspiration toxicity	No data available
Gentoxicity in vitro	No data available
Carcinogenicity	No data available
Toxicity to reproduction	No data available

Further information

The toxicological data on this product have not been determined experimentally.

SECTION 12: Ecological Effects

Toxicity

No ecotoxicological data is available for this product.

Persistence and degradability

Biodegradability No data available

Bioaccumulative potential

Bioaccumulation No data available

Mobility in soil

Mobility No data available

Results of PBT and vPvB assessment

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out.

Other adverse effects

Further Information An Expert Judgment stated that no classification is necessary based on present knowledge.

SECTION 13:Disposal considerations

Waste treatment methods

Product:

With respect to local regulations, e.g. dispose of to suitable waste incineration plant.

Uncleaned packaging

Do not reuse empty containers and dispose of in accordance with the regulations issued by the appropriate local authorities.

If there is product residue in the emptied container, follow directions for handling on the container's label.
Incorrect disposal or reuse of this container is illegal and can be dangerous.
Other countries: observe the national regulations.

Waste Key Number

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.
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.

SECTION 14:Transport Information

Transport on land (ADR/RID/GGVSEB)

14.1. UN number:	UN 3265
14.2. UN proper shipping name:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.(diacetoxydi -tert-butoxysilane)
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
14.5. Environmental hazards:	--
14.6. Special precautions for user:	Yes
ADR:	Tunnel Restriction Code: (E)

Keep separate from foodstuffs, luxury foods, feedstuffs

Inland waterway transport (ADN/GGVSEB (Germany))

14.1. UN number:	UN 3265
14.2. UN proper shipping name:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.(diacetoxydi -tert-butoxysilane)
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
14.5. Environmental hazards:	--
14.6. Special precautions for user:	Yes

Keep separate from foodstuffs, luxury foods, feedstuffs

Air transport ICAO-TI/IATA-DGR

14.1. UN number:	UN 3265
14.2. UN proper shipping name:	Corrosive liquid, acidic, organic, n.o.s.(diacetoxydi-tertbutoxysilane)
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
14.5. Environmental hazards:	--
14.6. Special precautions for user:	Yes

IATA-C: ERG-Code 8L
IATA-P: ERG-Code 8L

Keep separate from foodstuffs, luxury foods, feedstuffs

Sea transport IMDG-Code/GGVSee (Germany)

14.1. UN number:	UN 3265
14.2. UN proper shipping name:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.(diacetoxydi -tert-butoxysilane)
14.3. Transport hazard class(es):	8
14.4. Packing group:	II
14.5. Environmental hazards:	--
14.6. Special precautions for user:	Yes
EmS:	F-A,S-B

Clear of living quarters.

Keep separate from foodstuffs, luxury foods, feedstuffs

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:
for transportapproval see regulatory information

SECTION 15:Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

National legislation

Major Accident Hazard Legislation

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

listing: not applicable

Chemical Safety Assessment

No substance-related safety assessment is necessary / has been conducted for this product.

SECTION 16:Other Information

Relevant H phrases from chapter 3

H302:	Harmful if swallowed.
H314:	Causes severe skin burns and eye damage.
H318:	Causes serious 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.