

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product Number: SC-7910
Chemical name: Di-tert-butoxy diacetoxy silane
CAS No.: 13170-23-5

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

Industrial, crosslinker for silicone sealant

1.3 Details of the supplier of the safety data sheet

Manufactured/Supplied by Silsource Inc.
ADDRESS: 240 Mary Street, Port Perry, ON L9L 1B7
CHEMICAL EMERGENCY ONLY (PHONE): CANUTEC [24 Hr.] CANADA 888-226-8832 or 613-996-6666
CHEMTREC [24 Hr.] USA 1-800-262-8200

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Physical hazard

Flammability Category 4

Health hazard

Skin corrosion Category 1B

Serious damage/irritation to the eyes Category 1

Acute toxicity, Oral Category 4

Environmental hazards Unclassified

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram



Signal word : Danger

Hazard statement(s)

H227 Combustible liquid
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.

Precautionary statement(s)

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
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 [or shower].
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
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 or doctor/ physician.

Storage statement(s)

P233

Keep container tightly closed.

P271

Use only outdoors or in a well-ventilated area.

P405

Storage to be locked

Waste disposal

P501 Disposal of contents / containers in accordance with local regulations

Risk Warning

R22

Harmful if swallowed

R34

Causes burns

2.3 Other hazards not contributing to the classification

None

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

CAS-No.	Chemical Name
13170-23-5	Di-tert-butoxydiacetoxysilane

3.2 Ingredients

Chemical Name	CAS No.	Concentration
Di-tert-butoxy diacetoxysilane	13170-23-5	≥ 85%
Acetic acid	64-19-7	≤ 7.5%
Dimer	-	≤ 7.5%

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

Move the victim to fresh air, keep breathing well and rest. Call the poison control center/doctor if you feel unwell.

In case of skin contact

Removed all contaminated clothing immediately. Flush skin with plenty of water for at least 15 minutes. If skin irritation or rash occurs: seek medical attention.

In case of eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. If convenient and easy to operate, remove contact lenses. Keep cleaning. If eye irritation: seek medical attention.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If the patient is conscious, gargle with water and apply 24 cups of milk or warm water. Seek medical attention immediately if you feel unwell.

Indication of any immediate medical attention and special treatment needed

Rescuers need to wear personal protective equipment, such as rubber gloves and air-tight goggles.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Flash point

Flash point is about 83°C (Test method: closed cup).

5.2 Extinguishing media

Suitable extinguishing media

Use dry powder, carbon dioxide, soluble foam in large fires. Use carbon dioxide, dry powder, sand in small fires.

Water can be used to cool containers affected by fire.

5.3 Special hazards arising from the substance or mixture

Be careful, combustion or high temperature may decompose to produce toxic smoke.

5.4 Special methods

Determine whether evacuation or isolation of the area, in accordance with the local emergency. Keep containers exposed to fire cool by spraying water.

5.5 Special protective equipment for firefighters

When putting out of a fire, always wear personal protective equipment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Prevent inhalation of vapors, aerosols or gases. Ensure adequate ventilation.

6.2 Environmental precautions

Take measures to prevent further leakage or overflow under safe conditions. Do not let product enter drains. Prevent discharge into the surrounding environment.

6.3 Methods and materials for containment and cleaning up

Product can be absorbed by inert absorption material and treated as hazardous waste. Store in a suitable closed processing container.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Use in a ventilated place. Use of product requires air or self-contained breathing apparatus to provide ventilation. Do not get into your eyes. Avoid skin contact. Avoid breathing in steam, mist, dust or smoke. Keep container sealed. Don't take it internally. Remove contaminated clothing immediately. Develop good industrial hygiene habits and clean, before eating and drinking. **NO SMOKING**

7.2 Conditions for safe storage, including any incompatibilities

Store in the shade. Keep container closed and store in a dry and ventilated place. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end uses

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Maximum permissible concentration

Component	CAS No.	Exposure Limits
Di-tert-butoxydiacetoxysilane	13170-23-5	-
Acetic acid	64-19-7	China: TWA 10 mg/m ³ . STEL 20 mg/m ³ . OSHA PEL: TWA 10 ppm ACGIH TLV: TWA 10 ppm, STEL 15 ppm.
Tertiary butanol	75-65-0	OSHA 100ppm, 303mg/m ³ ; ACGIH 100ppm, 303mg/m ³

8.2 Engineering Controls**8.2.1 Personal protective equipment**

Respiratory protection: gas mask. According to local and government regulations.

Hand protection: protective gloves.

Eye protection: safety goggles. Wear a mask if necessary.

Skin and body protection: protective clothing. Wear protective boots if necessary.

8.2.2 Environmental protection

Local Ventilation: Recommended

General Ventilation: Recommended

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Physical state/form:	Liquid
Colour:	Colorless
pH:	4.3 (25°C)
Boiling point:	No data available
Melting point:	-4°C
Flash point:	83°C (tag closed cup)
Autoignition temperature:	No data available
Oxidizing properties:	No
Upper explosion limit:	No data available
Lower explosion limit:	No data available
Vapor pressure:	0.00469mmHg (25°C)
Vapor density:	No data available
Density/relative density:	1.02 g/cm ³
Solubility:	React with water
Heat of combustion:	No data available
Viscosity:	No data available

SECTION 10: STABILITY AND REACTIVITY**10.1 General Information**

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

10.2 Chemical stability

Moisture sensitive

10.3 Reactivity

Conditions to avoid contact: incompatible materials, ignition sources, excess heat, exposure to moist air.

Hazardous decomposition products: carbon oxides and incomplete combustion of carbon compounds, silicon dioxide.

Dangerous polymerization: dangerous polymerization does not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Route of exposure: Inhalation, skin contact and accidental ingestion.

11.2 Signs and symptoms of excessive exposure: Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

11.3 Acute toxicity

Harmful if swallowed.

Chemical name	CAS no.	LD50 (Oral)	LD50 (Dermal)	LC50 (inhalation)
Di-tert-butoxy diacetoxysilane	13170-23-5	-	-	-

Potential health implications

Inhalation: May cause respiratory tract irritation.
Ingestion: Do not ingest. May cause burns in mucous membranes, throat, esophagus and stomach.
Skin: Causes severe skin burns.
Eyes: Causes serious eye damage.

11.4 Chronic toxicity

Organosilicon compounds generally have low toxicity.

11.5 Other health hazards information

No data available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Exotoxicity

Fish: No data available
Toxicity to water fleas and other aquatic invertebrates: No data available
Algae: No data available

12.2 Persistence and degradability

The product is hydrolyzed in water or moist air, releasing acetic acid and organosilicon compounds.

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Additional Environmental Information

Environmental hazards cannot be ruled out even in cases of professional treatment or disposal.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: Dispose of in accordance with local regulations.
Contaminated packaging: Dispose of in accordance with local regulations.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

ADR/RID: 3265 IMDG: 3265 IATA: 3265

14.2 UN proper shipping name

ADR/RID: Organic acidic corrosive liquids, N.O.S.(Di-tert-butoxy diacetoxysilane)
IMDG: Organic acidic corrosive liquids, N.O.S.(Di-tert-butoxy diacetoxysilane)
IATA: Organic acidic corrosive liquids, N.O.S.(Di-tert-butoxy diacetoxysilane)

14.3 Transport hazard class(es)

ADR/RID: 8 IMDG: 8 IATA: 8

14.4 Packaging group

ADR/RID: II IMDG: II IATA: II

Technical name: Di-tert-butoxy diacetoxysilane

SECTION 15: REGULATORY INFORMATION

Must comply with national and local regulations. Label, see the information in this document. Regulations on the safety administration of hazardous chemicals, relevant provisions are made for the safe use, production, storage, transportation, loading and unloading of hazardous chemicals.

SECTION 16: OTHER INFORMATION

This data is offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is made. The recommended handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use.

This SDS was prepared sincerely on the basis of the information we could obtain, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. Products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.

This SDS is compliant with the GHS requirements outlined at http://www.ccohs.ca/oshanswers/chemicals/whmis_ghs/sds.html

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