

Version
1.0Revision Date:
2025/11/14Print Date:
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Date of first issue: 2025/11/14

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : SILCOSET 152

Recommended use of the chemical and restrictions on use

Recommended use : Adhesives, sealants

Restrictions on use : No uses advised against have been identified at this time.

Manufacturer or supplier's details

Manufacturer/Supplier

CHT Germany GmbH
 Bismarckstraße 102
 72072 Tübingen
 Germany
 Tel.: +49 7071 154 0
 info@cht.com

CHT UK Bridgwater Ltd.
 Showground Road
 Bridgwater TA6 6AJ
 United Kingdom
 Tel.: +44 1278 411 400
 info.uk@cht.com

Importer : -

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-
-
-

chemical-concepts.com

800.220.1966

410 Pike Road • Huntingdon Valley, PA 19006

Responsible Department : CHT Germany GmbH
 CHT UK
 Product Safety
 sds.uk@cht.com
 sds.germany@cht.com

Emergency telephone number

Emergency telephone number : +1 703 527 3887 CHEMTREC (International, 24 hours)

2. HAZARDS IDENTIFICATION


GHS Classification

Skin corrosion/irritation : Category 2

Serious eye damage/eye irritation : Category 1

GHS label elements

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Hazard pictograms : 

Signal word : Danger

Hazard statements : H315 Causes skin irritation.
H318 Causes serious eye damage.

Precautionary statements : **Prevention:**
P264+P265 Wash hands thoroughly after handling. Do not touch eyes.
P280 Wear protective gloves/ eye protection/ face protection.
P233 Keep container tightly closed.

Response:
P302 + P352 IF ON SKIN: Wash with plenty of water.
P305 + P354 + P338 + P317 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help.
P332 + P317 If skin irritation occurs: Get medical help.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Chemical nature : Condensation-crosslinking silicone polymer

Components

Chemical name	CAS-No.	Classification according to UN GHS	Concentration (% w/w)
Methyltriacetoxysilane	4253-34-3	Acute Tox. 4; H302 Skin Corr./Irrit. 1C; H314 Eye Dam./Irrit. 1; H318	>= 1 - < 3
diacetoxydi-tert-butoxysilane	13170-23-5	Skin Corr./Irrit. 1B; H314 Eye Dam./Irrit. 1; H318 Aquatic Acute 3; H402	>= 1 - < 2.5
octamethylcyclotetrasiloxane (REACH SVHC Candidate List)	556-67-2	Flam. Liq. 3; H226 Repr. 2; H361f Aquatic Chronic 1; H410	>= 0.025 - < 0.1

For explanation of abbreviations see section 16.

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4. FIRST AID MEASURES

- General advice : Take off all contaminated clothing immediately.
Show this safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air.
If symptoms persist, call a physician.
- In case of skin contact : Wash off immediately with soap and plenty of water.
If symptoms persist, call a physician.
- In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Call a physician immediately.
- If swallowed : Rinse mouth with water.
Do NOT induce vomiting.
Call a physician immediately.
- Most important symptoms and effects, both acute and delayed : There may be reddening, swelling, overheating and pain on contact.
- Notes to physician : Treat symptomatically.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Carbon dioxide (CO₂)
Water spray
Dry powder
Alcohol-resistant foam
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : Hazardous decomposition products formed under fire conditions.
Can be released in case of fire:
Carbon oxides
Silica
- Specific extinguishing methods : In case of fire do not inhale smoke, conflagration gases and steams.
Use water spray to cool unopened containers.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

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6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Contaminated surfaces will be extremely slippery.
- Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.
If the product contaminates rivers and lakes or drains inform respective authorities.
Pay attention to local or official regulations.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Clean contaminated surface thoroughly.
Treat recovered material as described in the section "Disposal considerations".
Dispose of in accordance with local regulations.

7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
Keep away from heat and sources of ignition.
- Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.
- Conditions for safe storage : Do always store in containers which correspond to the original ones.
Keep container tightly closed.
Keep in a dry, cool place.
- Further information on storage conditions : Protect from frost.
Protect from humidity and keep away from water.
- Materials to avoid : Incompatible with acids and bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Please check whether national workplace exposure limits exist for the dangerous ingredients listed in Section 3.

- Engineering measures** : Solids with occupational exposure limits in liquid preparations do not cause an exposure in the workplace, because they are not present in a respirable form. Exposure can occur in the form of aerosols or after drying of the liquid the solids remain, possibly in a finely dispersed form.
Provide sufficient air exchange and/or exhaust in work rooms.

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Personal protective equipment

- Respiratory protection : In case the work place is not ventilated sufficiently and during spray processing, it is necessary to wear respiratory protective equipment.
- Hand protection
- Material : butyl-rubber
 - Break through time : > 480 min
 - Glove thickness : ≥ 0.5 mm
 - Protective index : Class 6
- Remarks : Wear chemical resistant impervious gloves. Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. Gloves should be discarded and replaced if there is any indication of degradation or chemical break-through. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.
- Eye protection : Goggles
Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.
- Skin and body protection : Wear suitable protective clothing.
Work uniform or laboratory coat.
- Hygiene measures : Avoid contact with skin, eyes and clothing.
Do not breathe vapours, aerosols.
Take off all contaminated clothing immediately.
Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : paste
- Colour : white
- Odour : stinging
- pH : Not applicable substance/mixture is non-soluble (in water)

SAFETY DATA SHEET

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Melting point/ range : No data available

Boiling point/boiling range : No data available

Flash point : > 150 °C

Evaporation rate : Not applicable

Flammability (liquids) : Sustains combustion

Self-ignition : not auto-flammable

Upper explosion limit / Upper flammability limit : Not applicable

Lower explosion limit / Lower flammability limit : Not applicable

Vapour pressure : No data available

Relative vapour density : Not applicable

Density : 1.08 g/cm³ (20 °C)

Solubility(ies)
Water solubility : insoluble

Partition coefficient: n-octanol/water : Not applicable

Auto-ignition temperature : > 400 °C

Decomposition temperature : The substance or mixture is not classified self-reactive.

Viscosity
Viscosity, kinematic : not determined

Oxidizing properties : Not applicable

Conductivity : Not determined

Particle characteristics
Particle Size Distribution : Not applicable

10. STABILITY AND REACTIVITY

Reactivity : No hazardous reactions known if stored and handled properly.

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Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.

Conditions to avoid : Protect from moisture.

Incompatible materials : Acids
Bases

Hazardous decomposition products : During processing in contact with atmospheric moisture or with water small quantities of are formed:
Acetic acid

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute inhalation toxicity : Remarks: Based on available data, the classification criteria are not met.

Acute dermal toxicity : Remarks: Based on available data, the classification criteria are not met.

Components:

Methyltriacetoxysilane:

Acute oral toxicity : LD50 (Rat): 1,600 mg/kg
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

diacetoxidi-tert-butoxysilane:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : Assessment: Corrosive to the respiratory tract.

octamethylcyclotetrasiloxane (REACH SVHC Candidate List):

Acute oral toxicity : LD50 Oral (Rat, male): 4,800 mg/kg
Method: OECD Test Guideline 401
Remarks: No mortality observed at this dose.

Acute inhalation toxicity : LC50 (Rat, male and female): 36 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 2,375 mg/kg
Method: OECD Test Guideline 402
Remarks: No mortality observed at this dose.

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Skin corrosion/irritation**Product:**

Remarks : Causes skin irritation.

Components:**Methyltriacetoxysilane:**Species : Rabbit
Method : OECD Test Guideline 404
Result : Corrosive after 1 to 4 hours of exposure**diacetoxydi-tert-butoxysilane:**Species : Rabbit
Method : OECD Test Guideline 404
Result : Corrosive after 3 minutes to 1 hour of exposure**octamethylcyclotetrasiloxane (REACH SVHC Candidate List):**Species : Rat
Method : OECD Test Guideline 404
Result : No skin irritation**Serious eye damage/eye irritation****Product:**

Remarks : Causes serious eye damage.

Components:**Methyltriacetoxysilane:**

Remarks : Causes serious eye damage.

diacetoxydi-tert-butoxysilane:

Result : Irreversible effects on the eye

octamethylcyclotetrasiloxane (REACH SVHC Candidate List):Species : Rabbit
Method : OECD Test Guideline 405
Result : No eye irritation**Respiratory or skin sensitisation****Product:**

Remarks : Based on available data, the classification criteria are not met.

Components:**Methyltriacetoxysilane:**

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Species : Guinea pig
 Method : OECD Test Guideline 406
 Result : Did not cause sensitisation on laboratory animals.

octamethylcyclotetrasiloxane (REACH SVHC Candidate List):

Test Type : Maximisation Test
 Species : Guinea pig
 Method : OECD Test Guideline 406
 Result : Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Product:

Germ cell mutagenicity - Assessment : Based on available data, the classification criteria are not met.

Carcinogenicity

Product:

Carcinogenicity - Assessment : Based on available data, the classification criteria are not met.

Reproductive toxicity

Product:

Reproductive toxicity - Assessment : Based on available data, the classification criteria are not met.

Components:

octamethylcyclotetrasiloxane (REACH SVHC Candidate List):

Reproductive toxicity - Assessment : Suspected of damaging fertility., toxic effect on reproduction, category 2

STOT - single exposure

Product:

Remarks : Based on available data, the classification criteria are not met.

STOT - repeated exposure

Product:

Remarks : Based on available data, the classification criteria are not met.

Aspiration toxicity

Product:

Based on available data, the classification criteria are not met.

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12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : Remarks: No data is available on the product itself.

Toxicity to daphnia and other :
aquatic invertebrates : Remarks: No data is available on the product itself.

Toxicity to algae/aquatic :
plants : Remarks: No data is available on the product itself.

Toxicity to microorganisms : Remarks: No data is available on the product itself.

Ecotoxicology Assessment

Chronic aquatic toxicity : This product has no known ecotoxicological effects.
Remarks: The partition coefficient of D4 between PDMS and water has been determined as $\log K_{PDMS-water} = 7.09$. It follows that PDMS containing up to 3%w/w D4 will generate a thermodynamic limit concentration of 2.4 $\mu\text{g D4/L}$ in the water phase. The critical 21d-NOEC for daphnia of 7.9 $\mu\text{g D4/L}$ will not be reached. The product is therefore not classified for chronic aquatic toxicity.
(CES-Silicones Europe)

Components:

Methyltriacetoxysilane:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 500 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: Regulation (EC) No. 440/2008, Annex, C.1

LC50 (Fish): > 100 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : (Daphnia magna (Water flea)): > 500 mg/l
aquatic invertebrates : Exposure time: 48 h
Test Type: static test
Method: Regulation (EC) No. 440/2008, Annex, C.2

EC50 (Daphnia (water flea)): > 100 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic : NOEC (Pseudokirchneriella subcapitata (green algae)): > 500
plants : mg/l
Exposure time: 72 h
Test Type: static test
Method: Regulation (EC) No. 440/2008, Annex, C.3

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EC50 (Pseudokirchneriella subcapitata (green algae)): > 500 mg/l

Exposure time: 72 h

Test Type: static test

Method: Regulation (EC) No. 440/2008, Annex, C.3

EC50 (algae): > 100 mg/l

Exposure time: 72 h

Toxicity to microorganisms : EC10 (activated sludge): > 100 mg/l
 Exposure time: 3 h
 Test Type: static test
 Method: OECD Test Guideline 209

diacetoxydi-tert-butoxysilane:

Toxicity to fish : LC50 (Fish): > 100 mg/l
 Exposure time: 96 h
 Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
 Exposure time: 48 h
 Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (green algae)): > 10 - 100 mg/l
 Exposure time: 72 h
 Test Type: static test
 Method: OECD Test Guideline 201

EC50 (Pseudokirchneriella subcapitata (green algae)): > 10 - 100 mg/l

Exposure time: 72 h

Test Type: static test

Method: OECD Test Guideline 201

octamethylcyclotetrasiloxane (REACH SVHC Candidate List):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.022 mg/l
 Exposure time: 96 h
 Remarks: Not classified due to data which are conclusive although insufficient for classification.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 0.015 mg/l
 Exposure time: 48 h
 Test Type: flow-through test
 Remarks: Not classified due to data which are conclusive although insufficient for classification.

Toxicity to algae/aquatic plants : EC10 (Pseudokirchneriella subcapitata (algae)): >= 0.022 mg/l
 Exposure time: 96 h
 Remarks: Not classified due to data which are conclusive

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although insufficient for classification.

EC50 (Pseudokirchneriella subcapitata (algae)): > 0.022 mg/l
 Exposure time: 96 h
 Remarks: Not classified due to data which are conclusive
 although insufficient for classification.

Toxicity to microorganisms : EC50 (activated sludge): > 10,000 mg/l
 Exposure time: 3 h
 Test Type: static test
 Method: ISO 8192

Toxicity to fish (Chronic toxicity) : NOEC: >= 0.0044 mg/l
 Exposure time: 93 d
 Species: Oncorhynchus mykiss (rainbow trout)
 Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 15
 Exposure time: 21 d
 Species: Daphnia magna (Water flea)
 Test Type: flow-through test

M-Factor (Chronic aquatic toxicity) : 10

Ecotoxicology Assessment

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Persistence and degradability

Product:

Biodegradability : Remarks: No data is available on the product itself.

Physico-chemical removability : Remarks: The product is insoluble and sinks in water.
 May be separated mechanically in waste water plants.

Components:

diacetoxidi-tert-butoxysilane:

Biodegradability : O2 measuring
 Result: Readily biodegradable.
 Biodegradation: 79.5 %
 Exposure time: 28 d
 Method: OECD Test Guideline 301F
 Remarks: Argument by analogy

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data is available on the product itself.

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Components:**Methyltriacetoxysilane:**Partition coefficient: n- : log Pow: -2.4
octanol/water**diacetoxidi-tert-butoxysilane:**Partition coefficient: n- : log Pow: -0.2 - 1.41
octanol/water**octamethylcyclotetrasiloxane (REACH SVHC Candidate List):**Partition coefficient: n- : log Pow: 6.98 (21.7 °C)
octanol/water**Mobility in soil****Product:**

Mobility : Remarks: No data available

Other adverse effects**Product:**Additional ecological information : According to our knowledge, the product does not contain heavy metals and other compounds of EC directive 2000/60 EC.
The product is insoluble in water, therefore the ecological data such as, e.g. biodegradability, COD, BOD5 values cannot be determined analytically.

13. DISPOSAL CONSIDERATIONS**Disposal methods**Waste from residues : Avoid release to the environment.
The product should not be allowed to enter drains, water courses or the soil.
Do not dispose of waste into sewer.
Dispose of rinse water as waste water.
Dispose of rinse water in accordance with local and national regulations.
Product that cannot be reused, reclaimed or recycled should be disposed of at an authorised facility in accordance with national, state and local regulations.

Contaminated packaging : Packaging must be completely emptied. Dispose of non-recyclable/recyclable packaging in accordance with local regulations.
Do not rinse packaging before disposal.

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14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Segregation group : -

Transport in bulk according to IMO instruments

Not applicable

Special precautions for user

Remarks : see chapter 6 - 8



15. REGULATORY INFORMATION

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

National and local regulations must be observed.

16. OTHER INFORMATION

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Further information

Training advice : Based on the information in the safety data sheet and the workplace conditions, employees must be regularly trained in the safe handling of the product. National rules for training employees in handling hazardous substances must be observed.

Other information : The classification for dangerous physico-chemical properties, health and environmental hazards has been derived from a combination of computational methods and, if available, test data.

The partition coefficient of D4 between PDMS and water has been determined as $\log K_{PDMS-water} = 7.09$. It follows that PDMS containing up to 3%w/w D4 will generate a thermodynamic limit concentration of 2.4 $\mu\text{g D4/L}$ in the water phase. The critical 21d-NOEC for daphnia of 7.9 $\mu\text{g D4/L}$ will not be reached. The product is therefore not classified for chronic aquatic toxicity.

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(CES-Silicones Europe)

Sources of key data used to compile the Safety Data Sheet : Information from our suppliers, as well as data from the "Registered substances database" of the European Chemicals Agency (ECHA) has been used to compile this safety data sheet.

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECl - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.