

# SAFETY DATA SHEET

## 1. Identification

**Product identifier:** TEGO® Wet 280

**Chemical name:** Polyethersiloxane-Copolymer

### Other means of identification

**Recommended use:** Industrial use

**Recommended restrictions:** None known.

### Manufacturer/Importer/Distributor Information

Company Name : Evonik Operations GmbH  
Rellinghauser Str. 1-11  
45128 Essen  
Germany

Telephone : +49 201 173 01

Fax : +49 201 173 3000

E-mail : productsafety-cs@evonik.com

### Emergency telephone number:

24-Hour Health : +49 2365 49 2232

Emergency : +49 2365 49 4423 (Fax)

## 2. Hazard(s) identification

### Classification according to GHS

#### Physical Hazards

Flammable liquids Category 4

#### Health Hazards

Acute toxicity (Oral) Category 5

Acute toxicity (Inhalation - dust and mist) Category 4

Skin Corrosion/Irritation Category 3

#### Environmental Hazards

Acute hazards to the aquatic environment Category 2

Chronic hazards to the aquatic environment Category 2

## Label Elements

### Hazard Symbol:



**Signal Word:** Warning

**Hazard Statement:** Combustible liquid.  
 Harmful if inhaled.  
 May be harmful if swallowed.  
 Causes mild skin irritation.  
 Toxic to aquatic life with long lasting effects.

### Precautionary Statements

**Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

**Response:** Call a POISON CENTER or doctor/ physician if you feel unwell. If skin irritation occurs: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Collect spillage.

**Storage:** Store in a well-ventilated place.

**Disposal:** Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

**Other hazards:** None known.

## 3. Composition/information on ingredients

**Chemical name:**  
 Polyethersiloxane-Copolymer

### Substances

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%) <sup>*</sup>
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethers with polyethylene glycol mono Me-ether		68938-54-5	>60%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### Composition information of impurities and stabilizers

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%) <sup>*</sup>
octamethylcyclotetrasiloxane	No data available.	556-67-2	<0,1%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The exact concentration has been withheld as a trade secret.

### 4. First-aid measures

#### Description of necessary first-aid measures

<b>General information:</b>	Remove soiled or soaked clothing immediately
<b>Inhalation:</b>	fresh air supply, consult a doctor if feeling unwell.
<b>Skin Contact:</b>	In case of contact with skin wash off with soap and water. In case of discomfort: Supply with medical care.
<b>Eye contact:</b>	In case of contact with eyes rinse thoroughly with water. In case of discomfort: Supply with medical care.
<b>Ingestion:</b>	Thoroughly clean the mouth with water Seek medical advice immediately.
<b>Personal Protection for First-aid Responders:</b>	No data available.

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

<b>Symptoms:</b>	Up to now no symptoms are known.
<b>Hazards:</b>	No data available.

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

<b>Treatment:</b>	Treat symptomatically.
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### 5. Fire-fighting measures

<b>General Fire Hazards:</b>	Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
<b>Suitable (and unsuitable) extinguishing media</b>	
<b>Suitable extinguishing media:</b>	foam, carbon dioxide, dry powder, water spray.
<b>Unsuitable extinguishing media:</b>	High volume water jet.

**Special hazards arising from the substance or mixture:**

In the event of fire the following can be released: - Carbon monoxide, carbon dioxide, silicon dioxide Under certain conditions of combustion traces of other toxic substances cannot be excluded

**Special protective equipment and precautions for fire-fighters**

**Special fire-fighting procedures:**

No specific precautions.

**Special protective equipment for fire-fighters:**

Do not inhale explosion and/or combustion gases. Self-contained breathing apparatus.

## 6. Accidental release measures

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

Use personal protective equipment.

**Accidental release measures:**

No data available.

**Methods and material for containment and cleaning up:**

Take up with absorbent material (eg sand, kieselguhr, universal binder) Dispose of absorbed material in accordance with the regulations.

**Environmental Precautions:**

Do not allow to enter drains or waterways Prevent product from getting into subsoil/soil.

## 7. Handling and storage

### Handling

**Technical measures (e.g. Local and general ventilation):**

No data available.

**Safe handling advice:**

Provide good ventilation of working area (local exhaust ventilation if necessary). Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes.

**Contact avoidance measures:**

No data available.

### Storage

**Safe storage conditions:**

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

**Safe packaging materials:**

No data available.

## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

Observe national threshold limit values.

**Biological Limit Values**

Observe national threshold limit values.

**Appropriate Engineering Controls** No data available.

**Individual protection measures, such as personal protective equipment**
**General information:** No data available.

**Eye/face protection:** Safety glasses

**Skin Protection**
**Hand Protection:** Material: Nitrile rubber.  
 Break-through time: 480 min  
 Glove thickness: 0,11 mm

**Other:** protective clothing

**Respiratory Protection:** in case of formation of vapours/aerosols: Short term: filter apparatus, combination filter A-P2

**Hygiene measures:** When using do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Remove soiled or soaked clothing immediately.

**9. Physical and chemical properties**
**Information on basic physical and chemical properties**
**Appearance**
**Physical state:** liquid  
**Form:** liquid  
**Color:** yellowish  
**Odor:** specific to the product  
**Odor Threshold:** not measured  
**Freezing point:** < 32 °F/< 0 °C  
**Boiling Point:** > 392 °F/> 200 °C  
**Flammability:** not measured

**Upper/lower limit on flammability or explosive limits**
**Explosive limit - upper:** not measured  
**Explosive limit - lower:** not measured  
**Flash Point:** 176 °F/80 °C (DIN EN 22719)  
**Self Ignition Temperature:** not measured  
**Decomposition Temperature:** not measured  
**pH:** 6 - 8 (20 °C)  
**Viscosity**  
**Dynamic viscosity:** 10 - 100 mPa.s (77 °F/25 °C, DIN 53015)  
**Kinematic viscosity:** 10 - 97 mm<sup>2</sup>/s (77 °F/25 °C, calculated)

<b>Flow Time:</b>	No data available.
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	> 100 g/l (77 °F/25 °C)
<b>Solubility (other):</b>	not measured
<b>Partition coefficient (n-octanol/water):</b>	not measured
<b>Vapor pressure:</b>	not measured
<b>Relative density:</b>	not measured
<b>Density:</b>	1,006 - 1,033 g/cm <sup>3</sup> (77 °F/25 °C) (DIN 51757)
<b>Bulk density:</b>	No data available.
<b>Relative vapor density:</b>	not measured

#### Other information

<b>Explosive properties:</b>	not measured
<b>Oxidizing properties:</b>	not oxidizing
<b>Minimum ignition temperature:</b>	not measured
<b>Metal Corrosion:</b>	Not corrosive to metals
<b>Evaporation Rate:</b>	not measured

### 10. Stability and reactivity

<b>Reactivity:</b>	see section "Possibility of hazardous reactions".
<b>Chemical Stability:</b>	The product is stable under normal conditions.
<b>Possibility of hazardous reactions:</b>	No hazardous reactions with proper storage and handling
<b>Conditions to avoid:</b>	None with proper storage and handling.
<b>Incompatible Materials:</b>	Not known.
<b>Hazardous Decomposition Products:</b>	None with proper storage and handling.

### 11. Toxicological information

#### Information on toxicological effects

##### Information on likely routes of exposure

<b>Inhalation:</b>	Information on effects are given below.
<b>Skin Contact:</b>	Information on effects are given below.
<b>Eye contact:</b>	Information on effects are given below.
<b>Ingestion:</b>	Information on effects are given below.

**Acute toxicity (list all possible routes of exposure)**
**Oral**

**Product:** LD 50 (Rat): > 2.000 mg/kg (OECD 423)

**Components:**

Siloxanes and Silicones,  
 di-Me, 3-hydroxypropyl  
 Me, ethers with  
 polyethylene glycol  
 mono Me-ether  
 octamethylcyclotetrasilox  
 ane LD 50 (Rat): > 2.000 mg/kg

LD 50 (Rat): > 5.000 mg/kg

**Dermal**

**Product:** No data available.

**Components:**

Siloxanes and Silicones,  
 di-Me, 3-hydroxypropyl  
 Me, ethers with  
 polyethylene glycol  
 mono Me-ether  
 octamethylcyclotetrasilox  
 ane LD 50 (Rat): > 5.000 mg/kg

No data available.

**Inhalation**

**Product:** LC 50 (Rat, 4 h): 1,08 mg/l Dusts, mists and fumes

**Components:**

Siloxanes and Silicones,  
 di-Me, 3-hydroxypropyl  
 Me, ethers with  
 polyethylene glycol  
 mono Me-ether  
 octamethylcyclotetrasilox  
 ane LC 50 (Rat, 4 h): 1,08 mg/l Dusts, mists and fumes Vapour, No data available.

LC 50 (Rat, Female, Male, 4 h): 36 mg/l Vapour Dusts, mists and fumes, No data available.

**Repeated dose toxicity**

**Product:** No data available.

**Components:**

Siloxanes and Silicones,  
 di-Me, 3-hydroxypropyl  
 Me, ethers with  
 polyethylene glycol mono  
 Me-ether  
 octamethylcyclotetrasilox  
 ane No data available.

NOAEC (Rat(Female, Male), Inhalation(Vapour) , 5 days/weeks, 6 hours/day): 1,8 mg/l Subchronic toxicity  
 LOAEC (Rat(Female, Male), Inhalation(Vapour) , 5 days/weeks, 6 hours/day): 8,5 mg/l chronic  
 NOAEC (Rat(Female, Male), Inhalation(Vapour) , 5 days/weeks, 6 hours/day): 0,36 mg/l Subacute toxicity

**Skin Corrosion/Irritation**

Slightly irritating.

**Product:** OECD 404 (Rabbit): Slightly irritating.;

**Components:**

Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethers with polyethylene glycol mono Me-ether octamethylcyclotetrasilox ane	OECD 404 (Rabbit): Slightly irritating.  OECD 404 (Rabbit): Not irritating
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**Serious Eye Damage/Eye Irritation**

Not irritating

**Product:**

OECD 405 (Rabbit): Not irritating;

**Components:**

Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethers with polyethylene glycol mono Me-ether octamethylcyclotetrasilox ane	HET-CAM test (Chicken, egg): Not irritating OECD 405 (Rabbit): Not irritating  OECD 405 (Rabbit): Not irritating
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**Respiratory or Skin Sensitization**

Not a skin sensitizer.

**Product:**

Sensitization test (Guinea Pig): Not a skin sensitizer.

**Components:**

Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethers with polyethylene glycol mono Me-ether octamethylcyclotetrasilox ane	Sensitization test (Guinea Pig): Not a skin sensitizer.  Magnussona i Kligmana., OECD 406 (Rabbit): Not a skin sensitizer. Sensitization test (Human): Not a skin sensitizer. Maximization Test, OECD 406 (Guinea Pig): Not a skin sensitizer.
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**Carcinogenicity**
**Product:**

No data available.

**Components:**

Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethers with polyethylene glycol mono Me-ether octamethylcyclotetrasilox ane	No data available.  No data available.  No data available.
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**Germ Cell Mutagenicity**

No data available.

**In vitro**
**Product:**

No data available.

**Components:**

Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethers with polyethylene glycol mono Me-ether octamethylcyclotetrasiloxane

No data available.

Ames test (OECD 471): negative  
 Chromosomal aberration (OECD 473): negative  
 gene mutation test (OECD 476): negative

#### In vivo

**Product:** No data available.

**Components:** No data available.

Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethers with polyethylene glycol mono Me-ether octamethylcyclotetrasiloxane

Micronucleus test (OECD 474) Inhalation - vapor (Rat): negative  
 Chromosomal aberration (OECD 478) Oral (Rat): negative  
 Chromosomal aberration (OECD 475) Inhalation - vapor (Rat, Female, Male): negative

#### Reproductive toxicity

**Product:** No data available.

**Components:** No data available.

Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethers with polyethylene glycol mono Me-ether octamethylcyclotetrasiloxane

Suspected of damaging fertility or the unborn child. Suspected of damaging fertility.

#### Specific Target Organ Toxicity - Single Exposure

**Product:** No data available.

**Components:** No data available.

Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethers with polyethylene glycol mono Me-ether octamethylcyclotetrasiloxane

No data available.

#### Specific Target Organ Toxicity - Repeated Exposure

**Product:** No data available.

**Components:** No data available.

Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethers with polyethylene glycol mono Me-ether octamethylcyclotetrasiloxane

No data available.

#### Aspiration Hazard

**Product:** Not classified

**Components:**

Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethers with polyethylene glycol mono Me-ether	Not classified
octamethylcyclotetrasiloxane	Not classified

**Information on health hazards**
**Other hazards**

**Product:** No data available.

**12. Ecological information**
**Ecotoxicity:**
**Acute hazards to the aquatic environment:**
**Fish**

**Product:** LC 50 (Fish, 96 h): 7 mg/l

**Components:**

Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethers with polyethylene glycol mono Me-ether	LC 50 (Danio rerio, 96 h): 7,0 mg/l
octamethylcyclotetrasiloxane	LC 50 (Oncorhynchus mykiss, 96 h): > 22 µg/l NOEC (Oncorhynchus mykiss, 96 h): 22 µg/l

**Aquatic Invertebrates**

**Product:** EC 50 (Daphnia magna, 48 h): 58 mg/l

**Components:**

Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethers with polyethylene glycol mono Me-ether	EC 50 (Daphnia magna, 48 h): 58 mg/l
octamethylcyclotetrasiloxane	NOEC (Daphnia magna, 48 h): 15 µg/l EC 50 (Daphnia magna, 48 h): > 15 µg/l

**Toxicity to Aquatic Plants**

**Product:** ErC50 (Desmodesmus subspicatus (Scenedesmus subspicatus), 72 h): 152,2 mg/l (OECD 201) (analogy)

**Components:**

Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethers with polyethylene glycol mono Me-ether	No data available.
octamethylcyclotetrasiloxane	EC 50 (Algae (Pseudokirchneriella subcapitata), 96 h): > 22 µg/l (US-EPA-method)

EC 50 (Algae (*Pseudokirchneriella subcapitata*), 96 h): > 22 µg/l (US-EPA-method)

#### Toxicity to microorganisms

**Product:** No data available.

**Components:**

Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethers with polyethylene glycol mono Me-ether

octamethylcyclotetrasiloxane No data available.

#### Chronic hazards to the aquatic environment:

##### Fish

**Product:** No data available.

**Components:**

Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethers with polyethylene glycol mono Me-ether

octamethylcyclotetrasiloxane NOEC (*Oncorhynchus mykiss*, 93 d): 4,4 µg/l (US-EPA-method)

##### Aquatic Invertebrates

**Product:** No data available.

**Components:**

Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethers with polyethylene glycol mono Me-ether

octamethylcyclotetrasiloxane NOEC (*Daphnia magna*, 21 d): 15 µg/l (EPA OTS 797.1330)  
 Lowest Observed Effect Concentration (*Daphnia magna*, 21 d): 15 µg/l (EPA OTS 797.1330)  
 EC 50 (*Daphnia magna*, 21 d): > 15 µg/l (EPA OTS 797.1330)

#### Toxicity to Aquatic Plants

**Product:** No data available.

**Components:**

Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethers with polyethylene glycol mono Me-ether

octamethylcyclotetrasiloxane NOEC (Algae (*Pseudokirchneriella subcapitata*), 96 h): < 22 µg/l (US-EPA-method)

#### Toxicity to microorganisms

**Product:** No data available.

**Components:**

Siloxanes and Silicones, di-Me, 3-hydroxypropyl

Me, ethers with  
 polyethylene glycol mono  
 Me-ether  
 octamethylcyclotetrasilox  
 ane No data available.

## Persistence and Degradability

### Biodegradation

**Product:** No data available.

**Components:**  
 Siloxanes and Silicones, No data available.  
 di-Me, 3-hydroxypropyl  
 Me, ethers with  
 polyethylene glycol mono  
 Me-ether

octamethylcyclotetrasilox 3,7 % (28 d, OECD 310) The product is not biodegradable., aerobic  
 ane

### BOD/COD Ratio

**Product:** No data available.

**Components:**  
 Siloxanes and Silicones, No data available.  
 di-Me, 3-hydroxypropyl  
 Me, ethers with  
 polyethylene glycol mono  
 Me-ether  
 octamethylcyclotetrasilox No data available.  
 ane

## Bioaccumulative potential

### Bioconcentration Factor (BCF)

**Product:** No data available.

**Components:**  
 Siloxanes and Silicones, No data available.  
 di-Me, 3-hydroxypropyl  
 Me, ethers with  
 polyethylene glycol mono  
 Me-ether  
 octamethylcyclotetrasilox No data available.  
 ane

### Partition Coefficient n-octanol / water (log Kow)

**Product:** Log Kow: not measured

**Components:**  
 Siloxanes and Silicones, No data available.  
 di-Me, 3-hydroxypropyl  
 Me, ethers with  
 polyethylene glycol mono  
 Me-ether  
 octamethylcyclotetrasilox Log Kow: 6,488 25,1 °C (OECD 123)  
 ane

## Mobility in soil:

**Product** No data available.

**Components:**

Siloxanes and Silicones, di-No data available.  
 Me, 3-hydroxypropyl Me,  
 ethers with polyethylene  
 glycol mono Me-ether  
 octamethylcyclotetrasiloxane No data available.

**Product** No data available.

**Components:**

Siloxanes and Silicones, di- No data available.  
 Me, 3-hydroxypropyl Me,  
 ethers with polyethylene  
 glycol mono Me-ether  
 octamethylcyclotetrasiloxane No data available.

**Other adverse effects:**

**Other hazards**

**Product:** Do not allow to enter soil, waterways or waste water canal.

**13. Disposal considerations**

**Disposal methods:** In accordance with local authority regulations, take to special waste incineration plant

**Contaminated Packaging:** If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.

**14. Transport information**

**International Regulations**

**IATA-DGR**

UN/ID No. : UN 3082  
 Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
 (Polyethersiloxane-Copolymer)  
 Class : 9  
 Packing group : III  
 Labels : 9MI  
 Packing instruction (cargo aircraft) : 964  
 Packing instruction (passenger aircraft) : 964  
 Environmentally hazardous : yes

**IMDG-Code**

UN number or ID number : UN 3082  
 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
 N.O.S.  
 (Polyethersiloxane-Copolymer)  
 Class : 9

Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Marine pollutant : yes  
Remarks : Stowage category A

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

Not applicable for product as supplied.

**Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

**15. Regulatory information****16. Other information, including date of preparation or last revision**

**Issue Date:** 04.03.2019  
**Version #:** 1.1  
**Further Information:** No data available.

**Revision Information:** Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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