

# SAFETY DATA SHEET

## 1. Identification

**Product identifier:** TEGO® Wet 290

**Chemical name:** polyether siloxane

### Other means of identification

**Recommended use:** Industrial use

**Recommended restrictions:** None known.

### Manufacturer/Importer/Distributor Information

Company Name : Evonik Australia Pty Ltd  
Suites 33&37  
1 Ricketts Road  
Mt Waverley, VIC 3149  
Australia

Telephone : +61 3 8581 8400

Fax : +61 3 9544 5002

E-mail : productsafety-cs@evonik.com

### Emergency telephone number:

24-Hour Health : +61 2 9037 2994

Emergency : +1 703 527 3887 (CHEMTREC WORLD)

## 2. Hazard(s) identification

### Classification according to GHS

#### 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 3

Chronic hazards to the aquatic environment Category 3

**Label Elements**
**Hazard Symbol:**

**Signal Word:** Warning

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

**Precautionary Statements**
**Prevention:** Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Avoid release to the environment.

**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.

**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:**  
 polyether siloxane

**Substances**

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%) <sup>*</sup>
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated		68937-54-2	>60%

<sup>\*</sup> 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	<0.025%

\* 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>	Immediately remove contaminated clothing.
<b>Inhalation:</b>	If inhaled remove from side of exposure to fresh air, seek medical advice.
<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 In case of discomfort: Supply with medical care.
<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

### Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media:** foam, carbon dioxide, dry powder, water spray.

**Unsuitable extinguishing media:** 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 firefighters

<b>Special fire fighting procedures:</b>	No specific precautions.
<b>Special protective equipment for fire-fighters:</b>	Do not inhale explosion and/or combustion gases. Self-contained breathing apparatus.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures:</b>	Use personal protective equipment.
<b>Accidental release measures:</b>	No data available.
<b>Methods and material for containment and cleaning up:</b>	Take up with absorbent material (eg sand, kieselguhr, universal binder) Dispose of absorbed material in accordance with the regulations.
<b>Environmental Precautions:</b>	Prevent product from getting into subsoil/soil. Do not allow to enter drains or waterways

## 7. Handling and storage

### Handling

<b>Technical measures (e.g. Local and general ventilation):</b>	No data available.
<b>Safe handling advice:</b>	Provide good ventilation of working area (local exhaust ventilation if necessary). Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes.
<b>Contact avoidance measures:</b>	No data available.

### Storage

<b>Safe storage conditions:</b>	Keep container tightly closed in a cool, well-ventilated place.
<b>Safe packaging materials:</b>	No data available.

## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

None of the components have assigned exposure limits.

#### Biological Limit Values

Observe national threshold limit values.

#### Appropriate Engineering Controls

No data available.

**Individual protection measures, such as personal protective equipment**

<b>General information:</b>	No data available.
<b>Eye/face protection:</b>	Safety glasses
<b>Skin Protection</b>	
<b>Hand Protection:</b>	Material: Nitrile rubber. Break-through time: 480 min Glove thickness: 0.1 mm
<b>Other:</b>	protective clothing
<b>Respiratory Protection:</b>	in case of formation of vapours/aerosols: Short term: filter apparatus, combination filter A-P2
<b>Hygiene measures:</b>	Wash hands before breaks and immediately after handling the product. When using do not eat, drink or smoke. Remove soiled or soaked clothing immediately.

**9. Physical and chemical properties**
**Information on basic physical and chemical properties**
**Appearance**

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	Yellow
<b>Odor:</b>	Characteristic
<b>Odor Threshold:</b>	not measured
<b>Freezing point:</b>	< 32 °F/< 0 °C
<b>Boiling Point:</b>	> 392 °F/> 200 °C
<b>Flammability:</b>	not measured

**Upper/lower limit on flammability or explosive limits**

<b>Explosive limit - upper:</b>	not measured
<b>Explosive limit - lower:</b>	not measured
<b>Flash Point:</b>	> 302 °F/> 150 °C (DIN EN 22719)
<b>Auto-ignition temperature:</b>	not measured
<b>Decomposition Temperature:</b>	not measured
<b>pH:</b>	7 - 9 (40 g/l, 25 °C) in Water

**Viscosity**

<b>Dynamic viscosity:</b>	60 - 140 mPa.s (77 °F/25 °C, DIN 53019)
<b>Kinematic viscosity:</b>	60 - 140 mm <sup>2</sup> /s (68 °F/20 °C, calculated)
<b>Flow Time:</b>	No data available.

**Solubility(ies)**

<b>Solubility in Water:</b>	partly soluble
<b>Solubility (other):</b>	not measured
<b>Partition coefficient (n-</b>	not measured

**octanol/water):**

<b>Vapor pressure:</b>	not measured
<b>Relative density:</b>	not measured
<b>Density:</b>	1 - 1.1 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) The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

**Components:**

Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated octamethylcyclotetrasiloxane      No classification  
 LD 50 (Rat): > 5,000 mg/kg

#### Dermal

**Product:** No data available.

**Components:** Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated octamethylcyclotetrasiloxane      No data available.

LD 50 (Rat): > 5,000 mg/kg

#### Inhalation

**Product:** LC 50 (Rat, 4 h): 1.08 mg/l The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

**Components:** Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated octamethylcyclotetrasiloxane      Vapour, No data available. LC 50 (Rat, 4 h): 1.08 mg/l Dust and mist

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

#### Repeated dose toxicity

**Product:** No data available.

**Components:** Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated octamethylcyclotetrasiloxane      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.; The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

**Components:** Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated octamethylcyclotetrasiloxane      OECD 404 (Rabbit): Slightly irritating.

OECD 404 (Rabbit): Not irritating

#### Serious Eye Damage/Eye Irritation

Not irritating

**Product:** OECD 405 (Rabbit): Not irritating; The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

**Components:**

Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated	OECD 405 (Rabbit): Not irritating
octamethylcyclotetrasiloxane	OECD 405 (Rabbit): Not irritating

**Respiratory or Skin Sensitization**

Not a skin sensitizer.

**Product:**

Sensitization test (Guinea Pig): Not a skin sensitizer. The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

**Components:**

Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated	Sensitization test (Guinea Pig): Not a skin sensitizer.
octamethylcyclotetrasiloxane	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.

**Carcinogenicity**
**Product:**

No data available.

**Components:**

Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated	No data available.
octamethylcyclotetrasiloxane	No data available.

**Germ Cell Mutagenicity**

No data available.

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

No data available.

**Components:**

Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated	No data available.
octamethylcyclotetrasiloxane	Ames test (OECD 471): negative Chromosomal aberration (OECD 473): negative gene mutation test (OECD 476): negative

**In vivo**
**Product:**

No data available.

**Components:**

Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated	No data available.
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:**



Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated	No data available.
octamethylcyclotetrasilox ane	Suspected of damaging fertility or the unborn child. Suspected of damaging fertility.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Components:**  
 Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated No data available.  
 octamethylcyclotetrasilox ane No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Components:**  
 Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated No data available.  
 octamethylcyclotetrasilox ane No data available.

**Aspiration Hazard**

**Product:** Not classified

**Components:**  
 Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated Not classified  
 octamethylcyclotetrasilox ane 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 (Danio rerio, 96 h): 18.1 mg/l The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

**Components:**

Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated LC 50 (Danio rerio, 96 h): 18.1 mg/l

octamethylcyclotetrasiloxane LC 50 (Oncorhynchus mykiss, 96 h): > 22 µg/l

xane NOEC (Oncorhynchus mykiss, 96 h): 22 µg/l

#### Aquatic Invertebrates

**Product:** EC 50 (Daphnia magna, 48 h): 28.3 mg/l The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

**Components:**

Siloxanes and Silicones, EC 50 (Daphnia magna, 48 h): 28.3 mg/l  
 di-Me, 3-hydroxypropyl

Me, ethoxylated NOEC (Daphnia magna, 48 h): 15 µg/l  
 octamethylcyclotetrasiloxane EC 50 (Daphnia magna, 48 h): > 15 µg/l

#### Toxicity to Aquatic Plants

**Product:** EC 50 (Desmodesmus subspicatus (green algae), 72 h): 28.2 mg/l The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

EC 50 (Desmodesmus subspicatus (green algae), 72 h): 152.2 mg/l The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

**Components:**

Siloxanes and Silicones, EC 50 (Desmodesmus subspicatus (green algae), 72 h): 28.2 mg/l  
 di-Me, 3-hydroxypropyl EC 50 (Desmodesmus subspicatus (green algae), 72 h): 152.2 mg/l

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

#### Toxicity to microorganisms

**Product:** No data available.

**Components:**

Siloxanes and Silicones, No data available.  
 di-Me, 3-hydroxypropyl

Me, ethoxylated No data available.  
 octamethylcyclotetrasiloxane No data available.

#### Toxicity to soil dwelling organisms

**Product:** No data available.

**Components:**

Siloxanes and Silicones, No data available.  
 di-Me, 3-hydroxypropyl

Me, ethoxylated No data available.  
 octamethylcyclotetrasiloxane No data available.

#### Toxicity to terrestrial organisms

**Product:** No data available.

**Components:**

Siloxanes and Silicones, No data available.  
 di-Me, 3-hydroxypropyl

Me, ethoxylated No data available.  
 octamethylcyclotetrasiloxane No data available.

**Chronic hazards to the aquatic environment:**
**Fish**

<b>Product:</b>	No data available.
<b>Components:</b>	
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated octamethylcyclotetrasiloxane	No data available.  NOEC (Oncorhynchus mykiss, 93 d): 4.4 µg/l (US-EPA-method)

**Aquatic Invertebrates**

<b>Product:</b>	No data available.
<b>Components:</b>	
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated octamethylcyclotetrasiloxane	No data available.  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**

<b>Product:</b>	No data available.
<b>Components:</b>	
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated octamethylcyclotetrasiloxane	No data available.  NOEC (Algae (Pseudokirchneriella subcapitata), 96 h): < 22 µg/l (US-EPA-method)

**Toxicity to microorganisms**

<b>Product:</b>	No data available.
<b>Components:</b>	
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated octamethylcyclotetrasiloxane	No data available.  No data available.

**Toxicity to soil dwelling organisms**

<b>Product:</b>	No data available.
<b>Components:</b>	
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated octamethylcyclotetrasiloxane	No data available.  No data available.

**Toxicity to terrestrial organisms**

<b>Product:</b>	No data available.
<b>Components:</b>	
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated octamethylcyclotetrasiloxane	No data available.  No data available.

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### Persistence and Degradability

#### Biodegradation

**Product:** No data available.

**Components:**

Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated No data available.

octamethylcyclotetrasiloxane 3.7 % (28 d, OECD 310) The product is not biodegradable., aerobic

#### BOD/COD Ratio

**Product:** No data available.

**Components:**

Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated No data available.

octamethylcyclotetrasiloxane No data available.

### Bioaccumulative potential

#### Bioconcentration Factor (BCF)

**Product:** No data available.

**Components:**

Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated No data available.

octamethylcyclotetrasiloxane No data available.

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

**Product:** Log Kow: not measured

**Components:**

Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated No data available.

octamethylcyclotetrasiloxane Log Kow: 6.488 25.1 °C (OECD 123)

### Mobility in soil:

**Product** No data available.

**Components:**

Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated No data available.

octamethylcyclotetrasiloxane No data available.

**Product** No data available.

**Components:**

Siloxanes and Silicones, di- No data available.  
Me, 3-hydroxypropyl Me,  
ethoxylated  
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

**ADG**

Not regulated as a dangerous good

**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

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

Not applicable for product as supplied.

### 15. Regulatory information

**International regulations**

**Montreal protocol**

Not applicable

**Stockholm convention**

Not applicable

**Rotterdam convention**

Not applicable

**Kyoto protocol**

Not applicable

**Inventory Status:**

Canada DSL Inventory List:	On or in compliance with the inventory	
US TSCA Inventory:	On or in compliance with the inventory	

**16. Other information, including date of preparation or last revision****Issue Date:** 18.04.2023**Version #:** 1.0**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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