SAFETY DATA SHEET

1. Identification

Product identifier: TEGO® Wet 296

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 Emergency : +61 2 9037 2994

+1 703 527 3887 (CHEMTREC WORLD)

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 3

Chronic hazards to the aquatic environment	Category 3

Label Elements

Hazard Symbol:

Signal Word: Warning

Hazard Statement:
Combustible liquid.
Harmful if inhaled.
May be harmful if swallowed.
Causes mild skin irritation.
Harmful 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. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

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:
polyether siloxane

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated	No data available.	68937-54-2	30 - 60%
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

General information: Immediately remove contaminated clothing.

Inhalation: If inhalated remove from side of exposure to fresh air, seek medical advice.

Skin Contact: In case of contact with skin wash off with soap and water. In case of discomfort: Supply with medical care.

Eye contact: In case of contact with eyes rinse thoroughly with water. In case of discomfort: Supply with medical care.

Ingestion: Thoroughly clean the mouth with water In case of discomfort: Supply with medical care.

Personal Protection for First-aid Responders: No data available.

Most important symptoms and effects, both acute and delayed

Symptoms: Up to now no symptoms are known.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

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

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

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: 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

Physical state:	liquid
Form:	liquid
Color:	Colorless
Odor:	Characteristic
Odor Threshold:	not measured
Freezing point:	< 32 °F/< 0 °C
Boiling Point:	363 °F/184 °C
Flammability:	not measured

Upper/lower limit on flammability or explosive limits

Explosive limit - upper:	not measured
Explosive limit - lower:	not measured
Flash Point:	178 °F/81 °C (DIN EN 22719)
Auto-ignition temperature:	not measured
Decomposition Temperature:	not measured
pH:	7 - 9 (25 °C)

Viscosity

Dynamic viscosity:	5 - 20 mPa.s (77 °F/25 °C, DIN 53019)
Kinematic viscosity:	4.7 - 19 mm2/s (77 °F/25 °C, calculated)

Flow Time:	No data available.
Solubility(ies)	
Solubility in Water:	partly soluble
Solubility (other):	not measured
Partition coefficient (n-octanol/water):	not measured
Vapor pressure:	not measured
Relative density:	not measured
Density:	0.95 - 1.05 g/cm3 (77 °F/25 °C) (DIN 51757)
Bulk density:	No data available.
Relative vapor density:	not measured

Other information

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

10. Stability and reactivity

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

11. Toxicological information

Information on toxicological effects

Information on likely routes of exposure

Inhalation:	Information on effects are given below.
Skin Contact:	Information on effects are given below.
Eye contact:	Information on effects are given below.
Ingestion:	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	No classification
octamethylcyclotetrasiloxane	LD 50 (Rat): > 5,000 mg/kg

Dermal

Product:	LD 50 (ATEmix): > 5,000 mg/kg
Components:	
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated	No data available.
octamethylcyclotetrasiloxane	LD 50 (Rat): > 5,000 mg/kg

Inhalation

Product:	LC 50 (ATEmix, 4 h): 2.51 mg/l
Components:	
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated	Vapour, No data available. LC 50 (Rat, 4 h): 1.08 mg/l Dust and mist
octamethylcyclotetrasiloxane	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	No data available.
octamethylcyclotetrasiloxane	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	OECD 404 (Rabbit): Slightly irritating.

octamethylcyclotetrasiloxane	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.
octamethylcyclotetrasiloxane	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.
octamethylcyclotetrasiloxane	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.
octamethylcyclotetrasiloxane	No data available.

Aspiration Hazard

Product:	Not classified
Components:	
Siloxanes and Silicones, di-Me, 3-hydroxypropyl Me, ethoxylated	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 (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 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, di-Me, 3-hydroxypropyl Me, ethoxylated	EC 50 (Daphnia magna, 48 h): 28.3 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:	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, di-Me, 3-hydroxypropyl Me, ethoxylated	EC 50 (Desmodesmus subspicatus (green algae), 72 h): 28.2 mg/l EC 50 (Desmodesmus subspicatus (green algae), 72 h): 152.2 mg/l
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, ethoxylated	No data available.
octamethylcyclotetrasiloxane	No data available.

Toxicity to soil dwelling organisms

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

ane

Toxicity to terrestrial organisms

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

Chronic hazards to the aquatic environment:

Fish

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

Toxicity to soil dwelling organisms

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

Me, ethoxylated	
octamethylcyclotetrasiloxane	No data available.

Toxicity to terrestrial organisms

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

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-Me, 3-hydroxypropyl Me, ethoxylated	No data available.
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
Remarks : FOR USA ONLY: In packagings exceeding 450 L, this product must be classified, placarded, marked and shipped as Combustible Liquid to the USA.

International Regulations

UNRTDG
Not regulated as a dangerous good

IATA-DGR
Not regulated as a dangerous good
Remarks : FOR USA ONLY: In packagings exceeding 450 L, this product must be classified, placarded, marked and shipped as Combustible Liquid to the USA.
FOR USA ONLY: In packagings > 450 L this Product must be classified, placarded, marked and shipped as Combustible Liquid in the USA.

IMDG-Code
Not regulated as a dangerous good
Remarks : FOR USA ONLY: In packagings exceeding 450 L, this product must be classified, placarded, marked and shipped as

Combustible Liquid to the USA.
FOR USA ONLY: In packagings > 450 L this Product must be classified, placarded, marked and shipped as Combustible Liquid in the USA.

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

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.
Disclaimer:	This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.