

Product name: TEGO® Glide 450

# SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

## 1. Identification

**Product identifier:** TEGO® Glide 450

**Chemical name:**  
Polyether-modified polysiloxane

**Other means of identification**  
None.

### Recommended restrictions

**Recommended use:** Industrial use  
**Restrictions on use:** None known.

### Manufacturer/Importer/Distributor Information

Company Name : Evonik Corporation  
Nutrition & Care  
7801 Whitepine Road  
Richmond, VA 23237  
USA

Telephone : +1 804 727 0700

Fax : +1 804 727 0845

E-mail : product-regulatory-services@evonik.com

### Emergency telephone number:

24 Hour Emergency : +1 800 424 9300 (CHEMTREC - US & CANADA)  
Telephone : 800 681 9531 (CHEMTREC MEXICO)  
+1 703 527 3887 (CHEMTREC WORLD)

## 2. Hazard(s) identification

### Hazards for the product as supplied

#### Environmental Hazards

Chronic hazards to the aquatic environment Category 3

**Hazard(s) not otherwise classified (HNOC):** None.

#### Label Elements

**Hazard Symbol:** No symbol

**Signal Word:** No signal word.

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**Hazard Statement:**

Harmful to aquatic life with long lasting effects.

**Precautionary Statements****Prevention:**

Avoid release to the environment.

**Disposal:**

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

**3. Composition/information on ingredients****Chemical name:**

Polyether-modified polysiloxane

**Substances****Composition information of impurities and stabilizers**

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%) <sup>*</sup>
octamethylcyclotetrasiloxane		556-67-2	0.01 - <0.1%

<sup>\*</sup> 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 first aid measures****General information:**

Remove soiled or soaked clothing immediately

**Inhalation:**

fresh air supply, consult a doctor if feeling unwell.

**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.

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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

**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, diatomaceous earth, 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:** No data available.

**Local/Total 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.

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## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

None of the components have assigned exposure limits.

#### Biological Limit Values

No biological exposure limits noted for the ingredient(s).

#### Appropriate Engineering Controls

Good general (mechanical) ventilation should be sufficient to control airborne levels.

### Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection:

Safety glasses

### Skin Protection

#### Hand Protection:

Material: Nitrile rubber.  
 Break-through time: 480 min  
 Material: Natural rubber.  
 Break-through time: 480 min  
 Material: Chloroprene  
 Break-through time: 480 min  
 Material: Butyl rubber.  
 Break-through time: 480 min

#### Skin and Body Protection:

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 to light yellow

#### Odor:

Characteristic

#### Odor Threshold:

not measured

#### Freezing point:

> -0.40 - 32 °F/ > -18 - 0 °C

#### Boiling Point:

> 392 °F/ > 200 °C

#### Flammability:

not measured

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**Upper/lower limit on flammability or explosive limits**
**Explosive limit - upper:** not measured

**Explosive limit - lower:** not measured

**Flash Point:** 248 °F/120 °C  
 Method: DIN EN 22719

**Auto-ignition temperature:** not measured

**Decomposition Temperature:** not measured

**pH:** 4.8 (68 °F/20 °C)  
 Concentration: 40 g/l  
 Concentration: 4 %  
 in Water

**Viscosity**
**Dynamic viscosity:** 100 - 450 mPa.s (77 °F/25 °C )  
 Method: DIN 53019

**Kinematic viscosity:** 96 - 433 mm<sup>2</sup>/s (77 °F/25 °C),  
 Method: calculated

**Flow Time:** No data available.

**Solubility(ies)**
**Solubility in Water:** Soluble

**Solubility (other):** not measured

**Partition coefficient (n-octanol/water):** not measured

**Vapor pressure:** not measured

**Relative density:** not measured

**Density:** 1.01 - 1.04 g/cm<sup>3</sup> (77 °F/25 °C)  
 Method: DIN 51757

**Bulk density:** No data available.

**Relative vapor density:** not measured

**Particle characteristics:** Not applicable.

**Other information**
**Explosive properties:** not measured

**Oxidizing properties:** not oxidizing

**Self-ignition:** 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

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<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 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.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.
<b>Ingestion:</b>	No data available.

### Acute toxicity (list all possible routes of exposure)

#### Oral

<b>Product:</b>	No data available.
<b>Components:</b>	
octamethylcyclotetrasiloxane	LD 50, Rat, Male, > 5,000 mg/kg, OECD 401

#### Dermal

<b>Product:</b>	No data available.
<b>Components:</b>	
octamethylcyclotetrasiloxane	LD 50, Rat, Female, Male, > 5,000 mg/kg, OECD 402

#### Inhalation

<b>Product:</b>	No data available.
<b>Components:</b>	
octamethylcyclotetrasiloxane	LC 50, Rat, Female, Male, 4 h, 36 mg/l, OECD 403, Vapour Not toxic after single exposure, Dust and mist, No data available.

### Repeated dose toxicity

<b>Product:</b>	No data available.
<b>Components:</b>	
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

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**Skin Corrosion/Irritation****Product:** No data available.**Components:**

octamethylcyclotetrasiloxane Not irritating, OECD 404, Rabbit

**Serious Eye Damage/Eye Irritation****Product:** No data available.**Components:**

octamethylcyclotetrasiloxane Not irritating, OECD 405, Rabbit

**Respiratory or Skin Sensitization****Product:** No data available.**Components:**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.**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogens present or none present in regulated quantities

**ACGIH: US.ACGIH Threshold Limit Values:**

No carcinogens present or none present in regulated quantities

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogens present or none present in regulated quantities

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended:**

No carcinogens present or none present in regulated quantities

**Germ Cell Mutagenicity**

No data available.

**In vitro****Components:**octamethylcyclotetrasiloxane Ames test, OECD 471: , negative  
Chromosomal aberration, OECD 473: , negative  
gene mutation test, OECD 476: , negative**In vivo****Components:**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****Effects on fertility**

Not classified based on available data.

**Effects on fetal development**

Not classified based on available data.

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#### Reproductive toxicity - Assessment

**Product:** Reproductive toxicity: No data available.  
 Teratogenicity: No data available.

**Components:**  
 octamethylcyclotetrasiloxane Reproductive toxicity: Suspected of damaging fertility or the unborn child.  
 Suspected of damaging fertility.

#### Specific Target Organ Toxicity - Single Exposure

**Product:** No data available.

#### Specific Target Organ Toxicity - Repeated Exposure

**Product:** No data available.

#### Aspiration Hazard

**Product:** Not classified

**Components:**  
 octamethylcyclotetrasiloxane Not classified

#### Information on health hazards

##### Other hazards

**Product:** No data available.

## 12. Ecological information

#### Ecotoxicity:

##### Toxicity to Aquatic Plants

**Product:** No data available.

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

##### Toxicity to soil dwelling organisms

**Product:** No data available.

##### Toxicity to terrestrial organisms

**Product:** No data available.

#### Acute hazards to the aquatic environment:

##### Fish

**Product:** No data available.

**Components:**  
 octamethylcyclotetrasiloxane LC 50, Oncorhynchus mykiss, 96 h, > 22 µg/l US-EPA-method  
 NOEC, Oncorhynchus mykiss, 96 h, 22 µg/l US-EPA-method

##### Aquatic Invertebrates

**Product:** No data available.

**Components:**



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octamethylcyclotetrasiloxane      NOEC, Daphnia magna, 48 h, 15 µg/lUS-EPA-method  
 EC 50, Daphnia magna, 48 h, > 15 µg/lUS-EPA-method

**Chronic hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Components:**

octamethylcyclotetrasiloxane      NOEC, Oncorhynchus mykiss, 93 d, 4.4 µg/l, US-EPA-method

**Aquatic Invertebrates**

**Product:** No data available.

**Components:**

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

**Persistence and Degradability**

**Biodegradation**

**Product:** No data available.

**Components:**

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

**BOD/COD Ratio**

No data available.

**Bioaccumulative potential**

**Bioconcentration Factor (BCF)**

**Product:** No data available.

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

**Product:** not measured

**Components:**

octamethylcyclotetrasiloxane      6.488, 25.1 °C, OECD 123

**Mobility in soil:**

**Product:** No data available.

**Results of PBT and vPvB assessment:**

No data available.

**Other adverse effects:**

**Additional ecological information**

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

**Ozone-Depletion Potential**

**Product:** Regulation: No

<b>13. Disposal considerations</b>
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**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

### Domestic regulation

#### 49 CFR

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

### US Federal Regulations

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

#### US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721 and 725, Subpt E)

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

#### CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Hazard categories

Not classified

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**US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances**

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

**US. EPCRA (SARA Title III) Section 313 Toxic Chemical Release Inventory (TRI) Reporting**

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

**US State Regulations**
**US. California Proposition 65**

No ingredient requiring a warning under CA Prop 65.

**Inventory Status:**

US TSCA Inventory: Included on Inventory.

Canada DSL Inventory List: Included on Inventory.

**16. Other information, including date of preparation or last revision**
**HMIS Hazard ID**

Health	1
Flammability	1
Physical Hazards	0
PERSONAL PROTECTION	B

B - Safety Glasses &amp; Gloves

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; \*Chronic health effect

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Revision Date: 09/03/2025

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**Abbreviations and acronyms:**

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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

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Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - 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

**Further Information:** CTFA: complies

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

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