1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name	:	TEGO GLIDE 410
Chemical Name	:	Polyether modified polysiloxane

1.2. Recommended use of the chemical and restrictions on use

Recommended use	:	Industrial Use
Non-recommended use(s)	:	None known.

1.3. Details of the supplier of the safety data sheet

Company	:	Evonik Corporation Consumer Specialties PO Box 1299 HOPEWELL VA 23860 USA
Telephone	:	+1 (0)804 541-8658
Telefax	:	+1 (0)804 541-2783
E-mail	:	productsafety-cs@evonik.com

Contact Canada

Company	:	Evonik Canada Inc. PO Box 5057 3380 South Service Road Burlington ON L7N 3J5 Canada
Telephone	:	+1 (0)905-336-3423
Telefax	:	+1 (0)905-332-5632
E-mail	:	productsafety-cs@evonik.com

1.4. Emergency telephone number

Emergency information	:	Non-Emergency Phone Number : (800) 732-5616 In case of emergency call CHEMTREC US: 1-800-424-9300, CHEMTREC WORLD: 1-703-527-3887.

24 HOUR EMERGENCY TELEPHONE NUMBERS:
CHEMTREC - US & CANADA toll free: +1-800-424-9300
CHEMTREC - MEXICO toll free: 01-800-681-9531
CHEMTREC GLOBAL - Collect calls accepted: +1-703-527-3887

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation 29CFR 1910.1200

Flammable liquids	Category 4	H227

2.2. Label elements

Signal word	:	Warning
hazard statement	:	H227 - Combustible liquid.
Precautionary	:	P210 - Keep away from open flames/hot surfaces. - No smoking.

Statement (Prevention)		P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.
Precautionary Statement (Response)	:	P370 + P378 - In case of fire: Use alcohol-resistant foam, carbon dioxide or dry sand for extinction.
Precautionary Statement (Storage)	:	P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.

2.3. Other hazards

None known

3. Composition/information on ingredients

3.1. Substances

-

3.2. Mixtures

Classification according to Regulation 29CFR 1910.1200

Chemical Name	NJ Trade secrets CAS-No.	Concentration	Classification
Diethylene Glycol Butyl Ether	- 112-34-5	>= 5 % - < 10 %	H319, 2 , Eye Irrit.

Texts of H phrases, see in Chapter 16

4. First aid measures

4.1. Description of first aid measures

General advice	:	Remove soiled or soaked clothing immediately
Inhalation	:	Ensure supply of fresh air.
Skin contact	:	Immediately and thoroughly, wash off with soap and water.
Eye contact	:	Flush eye(s) for 15 minutes or more; if irritation persists, consult a physician (preferably an eye specialist) and show MSDS.
Ingestion	:	If swallowed, seek medical attention and show MSDS.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms	:	No special hints.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media	:	foam, carbon dioxide, dry powder, water spray.
Unsuitable extinguishing media	:	Full water jet

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released:
- Carbon monoxide, carbon dioxide, silicon dioxide

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.
Ensure adequate ventilation.

6.2. Environmental precautions

Do not allow to enter drains or waterways
Do not discharge into the subsoil/soil.

6.3. 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.

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling	:	Provide good ventilation of working area (local exhaust ventilation if necessary).
Handling	:	no data available
Hygiene measures	:	No smoking, eating or drinking allowed when using this product. Wash hands before breaks and at end of work shift.
General protective measures	:	Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin

7.2. Conditions for safe storage, including any incompatibilities

Prevention of fire and explosion

Information	:	Keep away from sources of ignition - no smoking Take precautionary measures against electrostatic loading. Vapours may form explosive mixtures with air Cool endangered containers by water spray

Storage

Information	:	none
Further information on storage conditions	:	Keep container tightly closed in a well-ventilated place

8. Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s)

Ingredients	CAS-No.	Statutory basis/list (Update)	Value type (Form of exposure; Expressed as)	Value	Short-term
Diethylene Glycol Butyl Ether	112-34-5	ACGIH (03 2013)	TWA (Inhalable fraction and vapor.)	10 ppm	

8.2. Exposure controls

Engineering controls

Appropriate engineering controls : Good general (mechanical) ventilation should be sufficient to control airborne levels.

Personal protective equipment

Eye protection : Use chemical resistant goggles or safety glasses with side shields.

Hand protection : Examples of suitable gloves are those made by the company Kächele-Cama Latex GmbH, Am Kreuzacker 9, D-36124 Eichenzell, e-mail vertrieb@kcl.de, with subsequent specification (test according to EN374); specific workplace conditions must be separately taken into account.
These recommendations apply only to the product mentioned in the material data safety sheet that we supply and the purpose that we indicate.
Glove material: gloves made of chloroprene (CR, e.g. Neoprene)
Break through time: 480 min
Glove thickness: 0.65 mm

Glove material: gloves made of nitril (NBR)
Break through time: 480 min
Glove thickness: 0.11 mm

Glove material: gloves made of butyl (IIR)
Break through time: 480 min
Glove thickness: 0.3 mm

Body Protection : Light protective clothing is required.

Respiratory protection : Respiratory protection is not required.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : liquid

Form : liquid

Colour : yellowish, clear

Odour : slight, typical

Odour Threshold : not determined

pH : 5.5 - 7.5 (20 °C)
40 g/l

Remarks: water

Melting point : not measured

Boiling point : not measured

Flash point : 183 °F
Method: TAG CC

Evaporation rate : not determined

Flammability : no data available

Upper Explosion/Ignition Limit	:	not measured
Lower explosion limit	:	not measured
Vapour pressure	:	not measured
Relative vapour density	:	not measured
Relative density	:	no data available
Solubility(ies)	:	not measured
Water solubility	:	soluble
Partition coefficient: n-octanol/water	:	not measured
Autoignition temperature	:	not determined
Thermal decomposition	:	not measured
Viscosity, kinematic	:	no data available
Viscosity, dynamic	:	1,200 - 2,500 mPa·s (25 °C)
Explosive properties	:	not determined
Oxidising properties	:	not determined

9.2. Other information

Density	:	1.004 g/cm3
Metal corrosion	:	not measured
Ignition temperature	:	not measured

10. Stability and reactivity

10.1. Reactivity

see section "Possibility of hazardous reactions"

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

No
No hazardous reactions with proper storage and handling.

10.4. Conditions to avoid

None

10.5. Incompatible materials

Unknown

10.6. Hazardous decomposition products

None with proper storage and handling.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: no data available
Acute toxicity (inhalation)	: no data available
Acute toxicity (dermal)	: no data available
Irritation/corrosion of the skin	: no data available
Serious eye damage/ eye irritation	: no data available
Respiratory/skin sensitization	: no data available
Repeated dose toxicity	: no data available

CMR assessment

Carcinogenicity	: no data available
Mutagenicity	: no data available
Teratogenicity	: no data available
Toxicity to reproduction	: no data available

US. National Toxicology Program (NTP) Report on Carcinogens
No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

US. IARC Monographs on Occupational Exposures to Chemical Agents
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

US. ACGIH Threshold Limit Values
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Specific Target Organ Toxicity - Single exposure	: no data available
Specific Target Organ Toxicity - Repeated exposure	: no data available

Aspiration hazard	:	No aspiration toxicity classification
Other information	:	Proper use provided, no adverse health effects have been observed or have been come to our knowledge. Eye contact may produce an oil film over the eye-ball causing a harmless reversible shortlasting dimness of sight.

12. Ecological information

Ecotoxicology Assessment

Acute aquatic toxicity	:	no data available
Chronic aquatic toxicity	:	no data available

12.1. Toxicity

Aquatoxicity, fish	:	no data available
Aquatoxicity, invertebrates	:	no data available
Aquatoxicity, algae / aquatic plants	:	no data available
Toxicity in microorganisms	:	no data available
chronic toxicity in fish	:	no data available
Chronic toxicity in aquatic Invertebrates	:	no data available
Toxicity in organisms which live in the soil	:	no data available
Toxicity in terrestrial plants	:	no data available
Toxicity to Above-Ground Organisms	:	no data available

12.2. Persistence and degradability

Photodegradation	:	no data available
Biological degradability	:	no data available
Physico-chemical removability	:	no data available
Biochemical Oxygen Demand (BOD)	:	no data available
Chemical Oxygen Demand (COD)	:	no data available
relation of BOD/COD	:	no data available

Dissolved organic carbon (DOC)	:	no data available
Adsorbed organic bound halogens (AOX)	:	no data available
Distribution among environmental compartments	:	no data available

12.3. Bioaccumulative potential

Bioaccumulation	:	no data available

12.4. Mobility in soil

Environmental distribution	:	no data available

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment	:	no data available

12.6. Other adverse effects

General Information	:	Do not allow to enter soil, waterways or waste water canal.

13. Disposal considerations

13.1. Waste treatment methods

Product	:	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

Not dangerous according to transport regulations.

14.1	UN number:	--
14.2	UN proper shipping name:	--
14.3	Transport hazard class(es):	--
14.4	Packing group:	--
14.5	Environmental hazards:	--
14.6	Special precautions for user:	Yes

For USA only: This product is not regulated in packages < 119 gallons / 450 L. In bulk packages this products is a Combustible Liquid, NA1993.

15. Regulatory information

Canada:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation and the (M)SDS contains all information required by the Controlled Products Regulation

Canada : WHMIS CLASSIFICATION
Class B, Division 3, Combustible Liquid
This product contains component(s) that are listed on the WHMIS Ingredient Disclosure List.

Ethanol, 2-(2-Butoxyethoxy)- 112-34-5

US regulations:

SARA Title III Section 311/312 Hazard Categories : Fire Hazard

Other regulations : CTFA: complies

State Right to Know : SARA 313: YES
- Diethylene Glycol Butyl Ether (CAS-No.: 112-34-5)

ZUSPA_RTK: Diethylene Glycol Butyl Ether (CAS-No.: 112-34-5)

ZUSMA_RTK: No components are subject to the Massachusetts Right to Know Act.

ZUSNJ_RTK: Diethylene Glycol Butyl Ether (CAS-No.: 112-34-5)

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)
- Benzene, methyl- (CAS-No.: 108-88-3)

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

HMIS Ratings
Health: 1
Flammability: 2
Reactivity: 0
Personal Protection: X

Notification status

USA (TSCA) : listed/registered or exempted
Canada (DSL) : listed/registered or exempted

16. Other information

List of references

Revision date : 01/28/2015

Relevant H phrases from chapter 3

H319 : Causes serious eye irritation.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.
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Legend

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADNR	European agreement concerning the international carriage of dangerous goods by inland waterways (ADN)
ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration factor
BetrSichV	German Ordinance on Industrial Safety and Health
c.c.	closed cup
CAS	Chemical Abstract Services
CESIO	European Committee of Organic Surfactants and their Intermediates
ChemG	German Chemicals Act
CMR	carcinogenic-mutagenic-toxic for reproduction
DIN	German Institute for Standardization
DMEL	Derived minimum effect level
DNEL	Derived no effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EC50	half maximal effective concentration
GefStoffV	German Ordinance on Hazardous Substances
GGVSEB	German ordinance for road, rail and inland waterway transportation of dangerous goods
GGVSee	German ordinance for sea transportation of dangerous goods
GLP	Good Laboratory Practice
GMO	Genetic Modified Organism
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
ISO	International Organization For Standardization
LOAEL	Lowest observed adverse effect level
LOEL	Lowest observed effect level
NOAEL	No observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
o. c.	open cup
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit
PBT	Persistent, bioaccumulative, toxic
PEC	Predicted effect concentration
PNEC	Predicted no effect concentration
REACH	REACH registration
RID	Convention concerning International Carriage by Rail
STOT	Specific Target Organ Toxicity
SVHC	Substances of Very High Concern
TA	Technical Instructions
TPR	Third Party Representative (Art. 4)
TRGS	Technical Rules for Hazardous Substances
VCI	German chemical industry association
vPvB	very persistent, very bioaccumulative
VOC	volatile organic compounds
VwVwS	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
WGK	Water Hazard Class
WHO	World Health Organization