

## Superwet 250

### SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	Superwet 250
<b>Product Family</b>	Nonionic Wetting Agent
<b>Recommended Use</b>	Drilling Fluid additive.
<b>Supplier Identifier</b>	Engenium Chemicals Corp., 4333 - 46th Avenue S.E. , Calgary, Alberta , T2B-3N5, 403-279-8545
<b>Emergency Phone No.</b>	CANUTEC, 613-996-6666 or *666 on a cellular phone (Canada Only), 24 Hours / Day

### SECTION 2. HAZARD IDENTIFICATION

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015).

#### Classification

Acute toxicity (Oral) - Category 4; Serious eye damage - Category 1; Reproductive toxicity - Category 2; Specific target organ toxicity (repeated exposure) - Category 2

#### Label Elements



Signal Word:

Danger

Hazard Statement(s):

H302	Harmful if swallowed.
H318	Causes serious eye damage.
H361	Suspected of damaging the unborn child.
H373	May cause damage to organs (kidneys) through prolonged or repeated exposure.

Prevention:

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.

Response:

P301 + P312	If SWALLOWED: Call a POISON CENTRE/doctor/ if you feel unwell.
P330	Rinse mouth.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTRE or doctor.

Storage:

P405	Store locked up.
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Disposal:

P501	Dispose of contents and container in accordance with local, regional, national and international regulations.
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## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers
Ethylene glycol	107-21-1	60-100	
Poly(oxy-1,2-ethanediyl), alpha, alpha'-[1,4-dimethyl-1,4-bis(2-methylpropyl)-2-butyne-1,4-diyl]bis[ omega -hydroxy-	9014-85-1	10 - 30	

### Notes

Concentrations are expressed in % weight/weight.

## SECTION 4. FIRST-AID MEASURES

### First-aid Measures

#### Inhalation

Move to fresh air. Keep at rest in a position comfortable for breathing. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by Poison Centre or doctor. Seek medical attention if irritation develops or persists.

#### Skin Contact

Avoid direct contact. Wear chemical protective clothing if necessary. Take off immediately contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Immediately wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 15-20 minutes. Seek medical attention if irritation develops or persists.

#### Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for at least 30 minutes, while holding the eyelid(s) open. Seek medical attention if irritation develops or persists.

#### Ingestion

Rinse mouth with water. Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. If vomiting occurs naturally, lie on your side in the recovery position. Rinse mouth with water again. Immediately call a Poison Centre or doctor.

### Most Important Symptoms and Effects, Acute and Delayed

If in eyes:

May cause serious eye damage. May irritate or burn the eyes. Permanent damage including blindness may result.

If swallowed:

Can irritate the mouth, throat and stomach. There are 3 stages of effects, which can overlap. Early symptoms can include upset stomach, slurred speech, clumsiness, drowsiness, and convulsions. Second stage symptoms can include rapid heartbeat and breathing, bluish lips and skin, fluid in the lungs and heart failure. In the last stage, there can be kidney stones and kidney damage with lower back pain, and increased then decreased urine production. There may be delayed nervous system effects such as paralysis of the face, clumsiness, impaired hearing and blurred vision. Death can occur at any stage.

### Immediate Medical Attention and Special Treatment

#### Target Organs

Kidneys.

#### Special Instructions

Fomepizole may be used as an antidote for ethylene glycol poisoning.

## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

#### Suitable Extinguishing Media

Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

#### Unsuitable Extinguishing Media

Water Jet.

### Specific Hazards Arising from the Product

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Does not burn.

### Special Protective Equipment and Precautions for Fire-fighters

Fight fire from a safe distance or a protected location. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet. Increase ventilation to area or move leaking container to a well-ventilated and secure area.

### Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas. Do not flush to drain.

### Methods and Materials for Containment and Cleaning Up

Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal. After cleaning, flush away traces with water. Collect washing for disposal.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Prevent uncontrolled release of product. Immediately report leaks, spills or failures of the safety equipment (e.g. ventilation system).

Do NOT eat, drink or store food in work areas. Do NOT smoke in work areas.

### Conditions for Safe Storage

Store in an area that is: cool, temperature-controlled, well-ventilated, out of direct sunlight and away from heat and ignition sources. Do not store in unlabeled containers.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Poly(oxy-1,2-ethanediyl), alpha, alpha'-[1,4-dimethyl-1,4-bis(2-methylpropyl)-2-butyne-1,4-diyl]bis[ omega -hydroxy-	Not established	Not established	Not established	Not established	Not established	Not established
Ethylene glycol	Not established	100 mg/m3 A4	Not established	50 ppm	Not established	Not established

### Appropriate Engineering Controls

General ventilation is usually adequate.

### Individual Protection Measures

#### Eye/Face Protection

Eye contact should be prevented through use of chemical safety glasses with side shields or splash proof goggles.

#### Skin Protection

Consideration must be given both to durability as well as permeation resistance. Chemically resistant gloves should be used.

#### Respiratory Protection

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

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<b>Appearance</b>	Light white - yellow liquid.
<b>Odour</b>	Sweet
<b>Odour Threshold</b>	Not available
<b>pH</b>	Not available
<b>Melting Point/Freezing Point</b>	Not available (freezing)
<b>Initial Boiling Point/Range</b>	Not available
<b>Flash Point</b>	> 100 °C (212 °F)
<b>Evaporation Rate</b>	Not available
<b>Upper/Lower Flammability or Explosive Limit</b>	Not available (upper); Not available (lower)
<b>Vapour Pressure</b>	Not applicable
<b>Vapour Density (air = 1)</b>	Not available
<b>Relative Density (water = 1)</b>	1.078 at 25 °C
<b>Solubility</b>	Dispersible in water
<b>Partition Coefficient, n-Octanol/Water (Log Kow)</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Viscosity</b>	Not available (kinematic); Not available (dynamic)
<b>Other Information</b>	
<b>Physical State</b>	Liquid

## SECTION 10. STABILITY AND REACTIVITY

### Chemical Stability

Normally stable.

### Possibility of Hazardous Reactions

None known.

### Conditions to Avoid

Open flames, sparks, static discharge, heat and other ignition sources. Incompatible materials.

### Incompatible Materials

Strong oxidizing agents (e.g. perchloric acid), strong acids (e.g. hydrochloric acid). Materials reactive with hydroxyl compounds, dehydrating agents.

### Hazardous Decomposition Products

Oxides of Carbon  
Aldehydes.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Likely Routes of Exposure

Skin contact; inhalation; skin absorption; ingestion; eye contact.

### Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Poly(oxy-1,2-ethanediyl), alpha, alpha'-[1, 4-dimethyl-1, 4-bis(2-methylpropyl)-2-butyne-1,4-diyl]bis[ omega -hydroxy-	Not available	Not available	Not available

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Ethylene glycol	2725 mg/m3 (rat) (4-hour exposure)	4000 mg/kg (female rat)	9530 mg/kg (rabbit)
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**Skin Corrosion/Irritation**

No information was located.

**Serious Eye Damage/Irritation**

Causes serious eye irritation.

**STOT (Specific Target Organ Toxicity) - Repeated Exposure**

Causes kidney stones and long-lasting kidney injury.

**Carcinogenicity**

Chemical Name	IARC	ACGIH®	NTP	OSHA
Poly(oxy-1,2-ethanediyl), alpha, alpha'-[1, 4-dimethyl-1, 4-bis(2-methylpropyl)-2-butyne-1,4-diyl]bis[ omega -hydroxy-	Not Listed	Not designated	Not Listed	Not Listed
Ethylene glycol	Not Listed	A4	Not Listed	Not Listed

ACGIH®:

A4 – Not classifiable as a human carcinogen.

**Reproductive Toxicity**

**Development of Offspring**

Ethylene Glycol: Very toxic; Embryotoxicity and Teratogenicity observed in animal studies. Doses were not toxic to the mother.

**Sexual Function and Fertility**

Not known to cause effects on sexual function or fertility.

**Germ Cell Mutagenicity**

No information was located.

**Interactive Effects**

No information was located.

**SECTION 12. ECOLOGICAL INFORMATION**

Environmental information was not located.

**Ecotoxicity**

Studies were not located.

**Chronic Aquatic Toxicity**

Chemical Name	NOEC Fish	EC50 Fish	NOEC Crustacea	EC50 Crustacea
Ethylene glycol	Not available	Not available	Not available	Not available

**Persistence and Degradability**

No information was located.

**Bioaccumulative Potential**

No information was located.

**Mobility in Soil**

Studies are not available.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal Methods**

Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction.

## SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations.

**Special Precautions** Not applicable

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

## SECTION 15. REGULATORY INFORMATION

**Safety, Health and Environmental Regulations**

**Canada**

**Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)**

All intentional components of this product are either on the DSL, the confidential DSL or notifications / import restrictions are in place.

**USA**

**Toxic Substances Control Act (TSCA) Section 8(b)**

All ingredients are listed on the TSCA Inventory.

## SECTION 16. OTHER INFORMATION

**SDS Prepared By** Product Safety Committee

**Phone No.** 403-279-8545

**Date of Preparation** January 25, 2019

**Disclaimer** To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.