

Product name: SURFYNOL® CT-136

# SAFETY DATA SHEET

Classified in accordance with Health Canada Hazardous Products Regulations  
(SOR/2015-17)

## 1. Identification

**Product identifier:**  
SURFYNOL® CT-136**Chemical name:**  
Surfactant blend

### Recommended use of the chemical and restrictions on use

**Recommended use:** Industrial use  
**Recommended restrictions:** None known.

### Manufacturer/Importer/Distributor Information

Company Name : Evonik Canada Inc.  
3380 South Service Road  
L7N 3J5 Burlington ON  
Canada

Telephone : +1 905 336 3423

Fax : +1 905 332 5632

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

### Emergency telephone number:

24-Hour Health : +1 800 424 9300 (CHEMTREC - US & CANADA)  
Emergency : 800 681 9531 (CHEMTREC MEXICO)  
+1 703 527 3887 (CHEMTREC WORLD)  
+1 613 996 6666 (CANUTEC – For Transportation Emergencies Only)  
+1 973 929 8060 (Product Regulatory Services)

## 2. Hazard identification

### According to Hazardous Products Regulations

#### Health Hazards

Serious Eye Damage/Eye Irritation	Category 1
Skin sensitizer	Category 1
Specific Target Organ Toxicity - Repeated Exposure	Category 2

#### Environmental Hazards

Acute hazards to the aquatic environment	Category 3
Chronic hazards to the aquatic environment	Category 3

### Label Elements

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**Hazard Symbol:**



**Signal Word:**

Danger

**Hazard Statement:**

Causes serious eye damage.  
May cause an allergic skin reaction.  
May cause damage to organs through prolonged or repeated exposure.  
Harmful to aquatic life with long lasting effects.

**Precautionary Statements**

**Prevention:**

Do not breathe dust/fume/gas/mist/vapors/spray.  
Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/eye protection/face protection.

**Response:**

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instructions on this label). Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

**Disposal:**

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

**Physical Hazards Not Otherwise Classified:**

Classification not possible

**Health Hazards Not Otherwise Classified:**

Classification not possible

**3. Composition/information on ingredients**

**Chemical name:**

Surfactant blend

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**Mixtures**

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)* Reference quantity: Fraction (Weight)
Poly(oxy-1,2-ethanediyl), a-(nonylphenyl)- $\omega$ -hydroxy-, branched	No data available.	68412-54-4	10 - 30%
Ethane-1,2-diol	No data available.	107-21-1	7 - 13%
2,4,7,9-Tetramethyldec-5-yne-4,7-diol	No data available.	126-86-3	5 - 10%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**4. First-aid measures**
**Description of necessary first-aid measures**

<b>General information:</b>	Immediately remove contaminated clothing.
<b>Inhalation:</b>	fresh air supply, consult a doctor if feeling unwell.
<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 plenty of water and seek medical advice
<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>	Risk of serious damage to eyes.
<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 dioxide, carbon monoxide 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.

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**Special protective equipment for fire-fighters:**

Do not inhale explosion and/or combustion gases. Use self-contained breathing apparatus and wear protective suit

**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:**

Pick up with absorbent material (e.g. sand, sawdust, general-purpose 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 (e.g. Local and general ventilation):**

No data available.

**Safe handling advice:**

Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid contact with skin and eyes. Do not inhale gases/vapours/aerosols.

**Contact avoidance measures:**

No data available.

**Storage**
**Safe storage conditions:**

Keep container tightly closed in a cool, well-ventilated place. Protect from frost. Do not store together with oxidizing agents.

**Safe packaging materials:**

No data available.

**8. Exposure controls/personal protection**
**Control Parameters**
**Occupational Exposure Limits**

Chemical Identity	Type	Exposure Limit Values	Source
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Ethane-1,2-diol	CEILING		100 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended
Ethane-1,2-diol - Vapor.	CEILING	50 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended)
Ethane-1,2-diol - Aerosol.	CEILING		100 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended)
Ethane-1,2-diol - Particulate.	TWA		10 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended)
	STEL		20 mg/m3	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended)
Ethane-1,2-diol - Vapor fraction		50 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended
Ethane-1,2-diol - Aerosol, inhalable.			10 mg/m3	Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended
Ethane-1,2-diol - Vapor fraction		25 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended
Ethane-1,2-diol - Aerosol.	Ceiling		100 mg/m3	Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended
Ethane-1,2-diol - Vapor and mist.	CEILING	50 ppm	127 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended
Ethane-1,2-diol - Aerosol, inhalable.	STEL		10 mg/m3	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended
Ethane-1,2-diol - Aerosol, inhalable.	STEL		10 mg/m3	US. ACGIH Threshold Limit Values, as amended
Ethane-1,2-diol - Vapor fraction	TWA	25 ppm		US. ACGIH Threshold Limit Values, as amended
	STEL	50 ppm		US. ACGIH Threshold Limit Values, as amended

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

**Biological Limit Values**

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

**Appropriate Engineering Controls**

No data available.

**Individual protection measures, such as personal protective equipment**
**Eye/face protection:**

Tightly fitting safety goggles

**Hand Protection:**

Material: Nitrile rubber.  
 Break-through time: 480 min

**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. Use skin protective preparation as preventive skin protection.

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## 9. Physical and chemical properties

### Information on basic physical and chemical properties

#### Appearance

Physical state:	liquid
Form:	liquid
Color:	Pale yellow
Odor:	ammoniacal
Odor Threshold:	not measured
Freezing point:	not measured
Boiling Point:	154 °F/68 °C
Flammability:	not measured

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

Explosive limit - upper:	not measured
Explosive limit - lower:	not measured
Flash Point:	> 212 °F/> 100 °C (DIN EN ISO 2719)
Autoignition Temperature:	not measured
Decomposition Temperature:	not measured
pH:	8.3 (25 °C)

#### Viscosity

Dynamic viscosity:	not measured
Kinematic viscosity:	not measured
Flow Time:	No data available.

#### Solubility(ies)

Solubility in Water:	Soluble
Solubility (other):	not measured
Partition coefficient (n-octanol/water):	not measured
Vapor pressure:	< 68.8 hPa (70 °F/21 °C)
Relative density:	not measured
Density:	1.06 g/cm <sup>3</sup> (70 °F/21 °C)
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:	Freezing.

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**Incompatible Materials:** Oxidizing agents.

**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 (ATEmix): > 5,000 mg/kg

**Dermal**  
**Product:** LD 50 (ATEmix): > 5,000 mg/kg

**Inhalation**  
**Product:** Not classified for acute toxicity based on available data.

**Repeated dose toxicity**  
**Product:** No data available.

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

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

**Respiratory or Skin Sensitization**  
**Product:** No data available.

**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

**Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended**  
No carcinogens present or none present in regulated quantities

**Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended**

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No carcinogens present or none present in regulated quantities

**Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended**

No carcinogens present or none present in regulated quantities

**Germ Cell Mutagenicity**

No data available.

**In vitro**
**Product:** No data available.

**Components:**

 2,4,7,9-Tetramethyldec-5-yne-4,7-diol  
 Ames test (OECD 471): negative Own study  
 Chromosomal aberration (OECD 473): negative Own study  
 gene mutation test (OECD 476): negative Own study

**In vivo**
**Product:** No data available.

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

**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

**Information on health hazards**
**Other hazards**
**Product:** No data available.

<b>12. Ecological information</b>
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**Ecotoxicity:**
**Acute hazards to the aquatic environment:**
**Fish**
**Product:** No data available.

**Aquatic Invertebrates**
**Product:** No data available.

**Toxicity to Aquatic Plants**
**Product:** No data available.

**Components:**

 Ethane-1,2-diol EC 50 (Selenastrum capricornutum (green algae), 96 h): 6,500 - 13,000 mg/l  
 2,4,7,9-Tetramethyldec-5-yne-4,7-diol EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): 15 mg/l (OECD 201)  
 EC 10 (Algae (Pseudokirchneriella subcapitata), 72 h): 1.8 mg/l (OECD 201)  
 ErC50 (Algae (Pseudokirchneriella subcapitata), 72 h): 82 mg/l (OECD 201)

**Toxicity to microorganisms**
**Product:** No data available.

**Chronic hazards to the aquatic environment:**



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**Fish****Product:** No data available.**Aquatic Invertebrates****Product:** No data available.**Toxicity to Aquatic Plants****Product:** No data available.**Toxicity to microorganisms****Product:** No data available.**Persistence and Degradability****Biodegradation****Product:** No data available.**BOD/COD Ratio****Product:** No data available.**Bioaccumulative potential****Bioconcentration Factor (BCF)****Product:** No data available.**Partition Coefficient n-octanol / water (log Kow)****Product:** Log Kow: not measured**Mobility in soil:****Product** No data available.**Results of PBT and vPvB assessment:****Product** 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****Domestic regulation****TDG**

Not regulated as a dangerous good

Remarks : Not dangerous according to transport regulations.

**Product name: SURFYNOL® CT-136****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****Canada Federal Regulations****List of Toxic Substances (CEPA, Schedule 1)****Chemical Identity**Poly(oxy-1,2-ethanediyl),  
a-(nonylphenyl)- $\omega$ -  
hydroxy-, branched  
2-butoxyethanol**Export Control List (CEPA 1999, Schedule 3)**

Not Regulated

**National Pollutant Release Inventory (NPRI)****Canada. National Pollutant Release Inventory (NPRI) (Schedule 1, Parts 1-4)**NPRI Poly(oxy-1,2-ethanediyl), a-  
(nonylphenyl)- $\omega$ -hydroxy-,  
branchedEthane-1,2-diol**Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional Reporting Requirements**NPRI PT5 2-butoxyethanolstyrene2-  
Pentanone, 4-methyl-**Greenhouse Gases**

Not Regulated

**Canada. Substances Subject to Significant New Activity (SNAc) Reporting Requirements**

Not Regulated

**Controlled Drugs and Substances Act**

CA CDSI Not Regulated

CA CDSII Not Regulated

CA CDSIII Not Regulated

CA CDSIV Not Regulated

CA CDSV Not Regulated

CA CDSVII Not Regulated

CA CDSVIII Not Regulated

**Precursor Control Regulations**

Not Regulated

**Product name: SURFYNOL® CT-136****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****Issue Date:** 03/13/2019**Version #:** 2.0**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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