

Product name: SURFYNOL® CT-131

SAFETY DATA SHEET

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

1. Identification

Product identifier:
SURFYNOL® CT-131**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 1B

Environmental Hazards

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

Label Elements

Hazard Symbol:

Product name: SURFYNOL® CT-131


Signal Word:

Danger

Hazard Statement:

 Causes serious eye damage.
 May cause an allergic skin reaction.
 Harmful to aquatic life with long lasting effects.

Precautionary Statements
Prevention:

 Avoid breathing 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

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)* Reference quantity: Fraction (Weight)
Poly(oxy-1,2-ethanediyl), a-(nonylphenyl)-ω-hydroxy-, branched	No data available.	68412-54-4	10 - 30%
2,4,7,9-Tetramethyldec-5-yne-4,7-diol	No data available.	126-86-3	5 - 10%
ammonia	No data available.	1336-21-6	0.1 - 1%

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

Product name: SURFYNOL® CT-131

4. First-aid measures

Description of necessary first-aid measures

General information:	Immediately remove contaminated clothing.
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 plenty of water and seek medical advice
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:	Risk of serious damage to eyes.
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 dioxide, carbon monoxide Under certain conditions of combustion traces of other toxic substances cannot be excluded

Special protective equipment and precautions for fire-fighters

Special fire-fighting procedures: No specific precautions.

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.

Product name: SURFYNOL® CT-131

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
ammonia	STEL	35 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended)
	TWA	25 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended)
ammonia		25 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended
		35 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended
ammonia	TWA	25 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended
	STEL	35 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended
ammonia	TWA	25 ppm	17 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended
	STEL	35 ppm	24 mg/m3	Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended
	TWA	25 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended)
	STEL	35 ppm		Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended)
		35 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended

Product name: SURFYNOL® CT-131

		25 ppm		Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended
	STEL	35 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended
	TWA	25 ppm		Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended
ammonia	8 HR ACL	25 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended
	15 MIN ACL	35 ppm		Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended
ammonia	STEL	35 ppm	24 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended
	TWA	25 ppm	17 mg/m3	Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended
	TWA	25 ppm		Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended
ammonia	STEL	35 ppm		US. ACGIH Threshold Limit Values, as amended
	TWA	25 ppm		US. ACGIH Threshold Limit Values, as amended
ammonia	STEL	35 ppm	27 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
ammonia	REL	25 ppm	18 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	STEL	35 ppm		US. ACGIH Threshold Limit Values, as amended
	TWA	25 ppm		US. ACGIH Threshold Limit Values, as amended
ammonia	STEL	35 ppm	27 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
ammonia	REL	25 ppm	18 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, 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:

Additional Information: gloves made of chloroprene (CR, e.g. Neoprene), gloves made of nitril (NBR)

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.

Product name: SURFYNOL® CT-131

9. Physical and chemical properties**Information on basic physical and chemical properties****Appearance**

Physical state:	liquid
Form:	liquid
Color:	Pale yellow
Odor:	Odorless
Odor Threshold:	not measured
Freezing point:	not measured
Boiling Point:	212 °F/100 °C
Flammability:	not measured

Upper/lower limit on flammability or explosive limits

Explosive limit - upper:	not measured
Explosive limit - lower:	not measured
Flash Point:	> 228 °F/> 109 °C
Self Ignition Temperature:	not measured
Decomposition Temperature:	not measured
pH:	not measured

Viscosity

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

Solubility(ies)

Solubility in Water:	not measured
Solubility (other):	not measured
Partition coefficient (n-octanol/water):	not measured
Vapor pressure:	22.2 hPa (70 °F/21 °C)
Relative density:	not measured
Density:	1.05 g/cm ³ (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:	Does not corrode metal.
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.

Product name: SURFYNOL® CT-131

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 (Rat): > 2,000 mg/kg (estimated)

Dermal
Product: ATEmix: 10,481.48 mg/kg

Inhalation
Product: LC 50 (Rat, 1 h): > 20 mg/l Dusts, mists and fumes

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

Product name: SURFYNOL® CT-131

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.

12. Ecological information

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:

 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)
 ammonia
 EC 50 (Chlorella vulgaris (Fresh water algae), 18 d): 2,700 mg/l

Toxicity to microorganisms
Product: No data available.

Chronic hazards to the aquatic environment:

Product name: SURFYNOL® CT-131

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-131
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)-ω-
 hydroxy-, branched
 2-butoxyethanol

Chemical Identity

 Poly(oxy-1,2-ethanediyl),
 a-(nonylphenyl)-ω-
 hydroxy-, branched
 2-butoxyethanol
 ammonia

Export Control List (CEPA 1999, Schedule 3)

Not Regulated

National Pollutant Release Inventory (NPRI)
Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional Reporting Requirements

NPRI PT5	2-butoxyethanol
	2-Pentanone,
	4-methyl-

Canada. National Pollutant Release Inventory (NPRI) (Schedule 1, Parts 1-4)

NPRI	Poly(oxy-1,2-ethanediyl), a-
	(nonylphenyl)-ω-hydroxy-,
	branched

Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional Reporting Requirements

NPRI PT5	2-butoxyethanol
	2-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
-----------	---------------

Product name: SURFYNOL® CT-131

CA CDSIV	Not Regulated
CA CDSV	Not Regulated
CA CDSVII	Not Regulated
CA CDSVIII	Not Regulated

Precursor Control Regulations

Not Regulated

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 #: 1.2
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 any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice.