

Version: 2.0 Revision Date: 02/15/2023

# **SAFETY DATA SHEET**

Classified in accordance with 29 CFR 1910.1200

#### 1. Identification

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

Other means of identification None.

#### **Recommended restrictions**

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

#### Manufacturer/Importer/Distributor Information

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

# 2. Hazard(s) identification

#### **Hazard Classification**

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

#### **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/protective clothing/eye protection/face protection.
Response:	IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instructions on this label). 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/doctor. Get medical advice/attention if you feel unwell.
Disposal:	Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.
lazard(s) not otherwise	None.

classified (HNOC):

# 3. Composition/information on ingredients

# Chemical name: Surfactant blend

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Poly(oxy-1,2-ethanediyl), a-		68412-54-4	25 - <50%
(nonylphenyl)-ω-hydroxy-, branched			
Ethane-1,2-diol		107-21-1	10 - <20%
2,4,7,9-Tetramethyldec-5-yne-4,7-diol		126-86-3	5 - <10%

\* 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 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.	
	al 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 preca	autions for firefighters	

Special fire fighting procedures:	No specific precautions.
Special protective equipment for fire-	Do not inhale explosion and/or combustion gases. Use self-
fighters:	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	Туре	Exposure Lir	mit Values	Source
Ethane-1,2-diol - Aerosol, inhalable.	STEL		10 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2017)
Ethane-1,2-diol - Vapor fraction	TWA	25 ppm		US. ACGIH Threshold Limit Values, as amended (03 2017)
	STEL	50 ppm		US. ACGIH Threshold Limit Values, as amended (03 2017)
Ethane-1,2-diol	Ceiling	50 ppm	125 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
	Ceiling	50 ppm	125 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
	AN ESL		1.8 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)
	ST ESL		450 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)
	AN ESL		4.5 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)
	ST ESL		180 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)
Ethane-1,2-diol - Vapor.	Ceiling	40 ppm	100 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015)

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 pe	ersonal protective equipment
Eye/face protection:	Tightly fitting safety goggles
Skin Protection Hand Protection:	Material: Nitrile 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. Use skin protective preparation as preventive skin protection.
Physical and chemical properties	

#### 9. Phy pr

Information on basic physical and che Appearance	mical properties
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/cm3 (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
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.	
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

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Product:	No data available.	
Skin Corrosion/Irritation Product:	No data available.	
Serious Eye Damage/Eye Irr Product:	<b>itation</b> 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

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended: No carcinogens present or none present in regulated quantities

## **Germ Cell Mutagenicity**

No data available.

In vitro Product:	No data available.
<b>Components:</b> 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: Reproductive toxicity	No data available.
Product:	No data available.
Specific Target Organ Toxicity Product:	- Single Exposure No data available.
Specific Target Organ Toxicity Product:	- Repeated Exposure No data available.
Aspiration Hazard Product:	Not classified
Information on health hazards	
Other hazards Product:	No data available.

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# 12. Ecological information

# Ecotoxicity: Acute hazards to the aquatic environment:

Acute hazarus to the aquatic e	sinnionnent.
Fish Product:	No data available.
Aquatic Invertebrates Product:	No data available.
Toxicity to Aquatic Plants Product: Components: Ethane-1,2-diol 2,4,7,9-Tetramethyldec- 5-yne-4,7-diol	No data available. EC 50 (Selenastrum capricornutum (green algae), 96 h): 6,500 - 13,000 mg/l 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 aqua	tic environment:
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 Product:	I <b>/ water (log Kow)</b> Log Kow: not measured
Mobility in soil:	
Product	No data available.
Results of PBT and vPvB assess	ment:
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**

#### 49 CFR

Not regulated as a dangerous good Remarks : Not dangerous according to transport regulations.

#### 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.

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

None present or none present in regulated quantities.

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

# Chemical Identity

# OSHA hazard(s)

Poly(oxy-1,2-ethanediyl), Irritant α-(nonylphenyl)-ωhydroxy-, branched

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

#### **Chemical Identity**

ETHYLENE GLYCOL GLYCOL ETHERS



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

#### Hazard categories

Serious eye damage or eye irritation, Respiratory or Skin Sensitization, Specific target organ toxicity (single or repeated exposure)

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.

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

Chemical Identity	<u>% by weight</u>
Poly(oxy-1,2-ethanediyl),	1.0%
α-(nonylphenyl)-ω-	
hydroxy-, branched	
ETHYLENE GLYCOL	1.0%

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None present or none present in regulated quantities.

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

Reportable Quantity not reasonably exceeded.

#### **US State Regulations**

#### US. California Proposition 65



**WARNING:** This product can expose you to chemicals including, 2-Pentanone, 4-methyl- which is [are] known to the State of California to cause cancer and birth defects or other reproductive harm.

This product can expose you to chemicals including, styrene which is [are] known to the State of California to cause cancer. This product can expose you to chemicals including, Ethane-1,2-diol which is [are] known to the State of California to cause birth defects or other reproductive harm.

For more information go to www.P65Warnings.ca.gov.

# 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	3
Flammability	1
Physical Hazards	0
PERSONAL PROTECTION	В

B - Safety Glasses & Gloves

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



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