

Issue Date: 04.03.2019 Last revised date: 05.07.2022 Supersedes Date: 10.10.2019

# **SAFETY DATA SHEET**

# 1. Identification

Product identifier: SURFYNOL® DF-110 C

Chemical name: Acetylenic diol in solvent

Other means of identification

Recommended use: Industrial use

**Recommended restrictions:** None known.

# Manufacturer/Importer/Distributor Information

Company Name : Evonik Corporation

Nutrition & Care PO Box 34628 Richmond, VA 23234

USA

Telephone : +1 804 727 0700

Fax : +1 804 727 0845

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)

# 2. Hazard(s) identification

#### Classification according to GHS

# **Health Hazards**

Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Irritation Category 2A

# **Environmental Hazards**

Acute hazards to the aquatic Category 3

environment

Chronic hazards to the aquatic Category 3

environment

# **Label Elements**



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# **Hazard Symbol:**



Signal Word: Warning

Hazard Statement: Causes skin irritation.

Causes serious eye irritation.

Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention: Wash face, hands and any exposed skin thoroughly after handling. 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 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. If eye irritation

persists: Get medical advice/attention.

**Disposal:** Dispose of contents/ container to an approved facility in accordance with

local, regional, national and international regulations.

Other hazards: None known.

# 3. Composition/information on ingredients

### Chemical name:

Acetylenic diol in solvent

#### **Mixtures**

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
2,5,8,11-Tetramethyldodec-6-yne-5,8-diol	No data available.	68227-33-8	10 - <30%

<sup>\*</sup> 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.



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#### 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. If skin

irritation persists, call a physician.

**Eye contact:** In case of contact with eyes rinse thoroughly with plenty of water.

If symptoms persist, 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: Repeated and/or prolonged exposure to low concentrations of

vapors and/or aerosols may cause: Sore throat.

**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 combusition gases. Use selfcontained breathing apparatus and wear protective suit

# 6. Accidental release measures



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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. Do not store together with oxidizing agents.

Safe packaging materials: No data available.

# 8. Exposure controls/personal protection

#### **Control Parameters**

## **Occupational Exposure Limits**

Observe national threshold limit values.

**Biological Limit Values** 

Observe national threshold limit values.

**Appropriate Engineering Controls**No data available.

Individual protection measures, such as personal protective equipment

**General information:** No data available.

Eye/face protection: Safety glasses

**Skin Protection** 



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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.

# 9. Physical and chemical properties

# Information on basic physical and chemical properties

**Appearance** 

Physical state: liquid
Form: liquid
Color: Pale yellow

**Odor:** specific to the product

Odor Threshold:

Freezing point:

Boiling Point:

Flammability:

not measured

not measured

not measured

Upper/lower limit on flammability or explosive limits

Explosive limit - upper: not measured not measured 
Flash Point: not measured 
> 212 °F/> 100 °C

Self Ignition Temperature: not measured

Decomposition Temperature: not measured

**pH:** 6 - 8 (100 g/l, 25 °C) in Water

**Viscosity** 

**Dynamic viscosity:** 53 mPa.s (70 °F/21 °C)

**Kinematic viscosity:** 53 mm2/s (70 °F/21 °C, calculated)

Flow Time: No data available.

Solubility(ies)

Solubility in Water: not measured Solubility (other): not measured Partition coefficient (n- not measured

octanol/water):

Vapor pressure:not measuredRelative density:not measured

Density:1 g/cm3 (77 °F/25 °C)Bulk density:No data available.Relative vapor density:not measured

#### Other information



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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:** None with proper storage and handling.

**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:** No data available.

**Components:** 2,5,8,11-

LD 50 (Rat): 12.900 mg/kg

Tetramethyldodec-6-

yne-5,8-diol

**Dermal** 

**Product:** LD 50 (ATEmix): > 5.000 mg/kg

Components:

2,5,8,11- LD 50 (Rabbit): > 2.000 mg/kg

Tetramethyldodec-6-

yne-5,8-diol

#### Inhalation



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**Product:** No data available.

Components:

2,5,8,11- LC 50 (Rat, 1 h): > 20,1 mg/l Dusts, mists and fumes LC 50 (Rat, 4 h): >

Tetramethyldodec-6- 5,25 mg/l Dusts, mists and fumes Vapour, No data available.

Repeated dose toxicity

vne-5,8-diol

**Product:** No data available.

**Components:** 

2,5,8,11- No data available.

Tetramethyldodec-6-yne-

5,8-diol

**Skin Corrosion/Irritation** 

**Product:** No data available.

Components:

2,5,8,11- 16 CFR 1500.41 (Rabbit): Irritating.

Tetramethyldodec-6-yne-

5,8-diol

Serious Eye Damage/Eye

Irritation

**Product:** No data available.

Components:

2,5,8,11- 16 CFR 1500.42 (Rabbit): Irritating.

Tetramethyldodec-6-yne-

5,8-diol

Respiratory or Skin

Sensitization

**Product:** No data available.

Components:

2,5,8,11- Local Lymph Node Assay (LLNA), OECD 429 (Mouse): Not a skin sensitizer.

Tetramethyldodec-6-yne-

5,8-diol

Carcinogenicity

**Product:** No data available.

Components:

2,5,8,11- No data available.

Tetramethyldodec-6-yne-

5,8-diol

**Germ Cell Mutagenicity** 

No data available.

In vitro

**Product:** No data available.

Components:

2,5,8,11- Ames test (OECD 471): negative

Tetramethyldodec-6-yne- Chromosomal aberration (OECD 473): negative

5,8-diol



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8/11

In vivo

No data available. Product:

Components:

2,5,8,11-No data available.

Tetramethyldodec-6-yne-

5.8-diol

Reproductive toxicity

**Product:** No data available.

**Components:** 

2,5,8,11-No data available.

Tetramethyldodec-6-yne-

5,8-diol

**Specific Target Organ Toxicity - Single Exposure** 

**Product:** No data available.

Components:

2,5,8,11-No data available.

Tetramethyldodec-6-yne-

5,8-diol

**Specific Target Organ Toxicity - Repeated Exposure** 

**Product:** No data available.

Components:

No data available. 2,5,8,11-

Tetramethyldodec-6-yne-

5,8-diol

**Aspiration Hazard** 

**Product:** Not classified

Components:

2,5,8,11-Not applicable

Tetramethyldodec-6-yne-

5,8-diol

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.

**Components:** 

LC 50 (Oncorhynchus mykiss, 96 h): 6,3 mg/l 2,5,8,11-Tetramethyldodec-6-NOEC (Oncorhynchus mykiss, 96 h): 2,7 mg/l

yne-5,8-diol

**Aquatic Invertebrates** Product:

No data available.



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**Components:** 

2,5,8,11-

EC 50 (Daphnia magna, 48 h): 6,6 mg/l

Tetramethyldodec-6-

yne-5,8-diol

**Toxicity to Aquatic Plants** 

**Product:** No data available.

Components:

2,5,8,11- EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): 44 mg/l (OECD

Tetramethyldodec-6-yne- 201

5,8-diol

Toxicity to microorganisms

**Product:** No data available.

Components:

2,5,8,11- No data available.

Tetramethyldodec-6-yne-

5,8-diol

Chronic hazards to the aquatic environment:

Fish

**Product:** No data available.

Components:

2,5,8,11- No data available.

Tetramethyldodec-6-

yne-5,8-diol

**Aquatic Invertebrates** 

**Product:** No data available.

Components:

2,5,8,11- No data available.

Tetramethyldodec-6-

yne-5,8-diol

**Toxicity to Aquatic Plants** 

**Product:** No data available.

Components:

2,5,8,11- NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): 25 mg/l (OECD

Tetramethyldodec-6-yne- 201)

5,8-diol

Toxicity to microorganisms

**Product:** No data available.

Components:

2,5,8,11- No data available.

Tetramethyldodec-6-yne-

5,8-diol

Persistence and Degradability

Biodegradation

**Product:** No data available.

Components:



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2,5,8,11- 3 % (28 d) The product is not biodegradable.

Tetramethyldodec-6-yne-

5,8-diol

**BOD/COD Ratio** 

**Product:** No data available.

Components:

2,5,8,11- No data available.

Tetramethyldodec-6-yne-

5,8-diol

# **Bioaccumulative potential**

**Bioconcentration Factor (BCF)** 

**Product:** No data available.

Components:

2,5,8,11- No data available.

Tetramethyldodec-6-yne-

5,8-diol

Partition Coefficient n-octanol / water (log Kow)

**Product:** Log Kow: not measured

Components:

2,5,8,11- No data available.

Tetramethyldodec-6-yne-

5.8-diol

# Mobility in soil:

**Product** No data available.

Components:

2,5,8,11-Tetramethyldodec-No data available.

6-yne-5,8-diol

**Product** No data available.

Components:

2,5,8,11-Tetramethyldodec- No data available.

6-yne-5,8-diol

#### 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.



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# 14. Transport information

### **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

# 16.Other information, including date of preparation or last revision

**Issue Date:** 04.03.2019

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.

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