

Issue Date: 26.03.2019 Last revised date: 24.06.2022 Supersedes Date: 02.09.2021

# SAFETY DATA SHEET

## 1. Identification

**Product identifier: SURFYNOL 465** 

Chemical name: Ethoxylated acetylenic diols

Other means of identification

Recommended use: Industrial use

**Recommended restrictions:** None known.

Manufacturer/Importer/Distributor Information

Company Name : Evonik India Pvt Ltd

Krislon House, Saki Vihar Road, Sakinaka, Andheri (East)

Mumbai - 400072 Maharashtra, India

Telephone : +91 22 6723 8800

E-mail : productsafety-sp@evonik.com

**Emergency telephone number:** 

24-Hour Health : 000-800-100-7141

Emergency

## 2. Hazard(s) identification

## Classification according to GHS

### **Health Hazards**

Acute toxicity (Inhalation - dust and

Category 4

mist)

Serious Eye Damage/Eye Irritation Category 1

**Environmental Hazards** 

Acute hazards to the aquatic Category 3

environment

Chronic hazards to the aquatic Category 3

environment

#### **Label Elements**

# **Hazard Symbol:**



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Signal Word: Danger

**Hazard Statement:** Harmful if inhaled.

Causes serious eye damage.

Harmful to aquatic life with long lasting effects.

Precautionary Statements

**Prevention:** Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a

well-ventilated area. Avoid release to the environment. Wear eye

protection/face protection.

**Response:** IF INHALED: Remove person to fresh air and keep comfortable for

breathing. Call a POISON CENTER or doctor/ physician if you feel unwell. 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.

Other hazards: None known.

## 3. Composition/information on ingredients

#### **Chemical name:**

Ethoxylated acetylenic diols

## **Substances**

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Ethoxylated 2,4,7,9-tetramethyl 5 decyn-4,7-diol		9014-85-1	>60%

<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.

## 4. First-aid measures

## Description of necessary first-aid measures



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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 combusition 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.



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**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). Do not inhale

gases/vapours/aerosols. Avoid contact with skin and eyes.

**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** 

General information:

Observe national threshold limit values.

**Appropriate Engineering Controls**No data available.

Individual protection measures, such as personal protective equipment

**Eye/face protection:** Tightly fitting safety goggles

**Skin Protection** 

Hand Protection: Additional Information: gloves made of chloroprene (CR, e.g.

No data available.

Neoprene), gloves made of nitril (NBR)

Other: protective clothing



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**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: Amber
Odor: Mild

Odor Threshold:

Freezing point:

Boiling Point:

Flammability:

not measured

784 °F/418 °C

not measured

Upper/lower limit on flammability or explosive limits

Explosive limit - upper: not measured

Explosive limit - lower: not measured

Flash Point: > 230 °F/> 110 °C

Self Ignition Temperature: not measured

Decomposition Temperature: not measured
pH: 7 (25 °C)

**Viscosity** 

Dynamic viscosity:not measuredKinematic viscosity:not measuredFlow Time:No data available.

Solubility(ies)

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

octanol/water):

Vapor pressure: 0,192 hPa (68 °F/20 °C)

Relative density: not measured

**Density:** 1,04 g/cm3 (70 °F/21 °C)

**Bulk density:**Relative vapor density:
No data available.
not measured

Other information

Explosive properties:not measuredOxidizing properties:not oxidizingMinimum ignition temperature:635 °F/335 °C



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**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:** LD 50 (Rabbit): 6.300 mg/kg

Components:

LD 50 (Rabbit): 6.300 mg/kg Ethoxylated 2,4,7,9-

tetramethyl 5 decyn-4,7-

diol

**Dermal** 

**Product:** No data available.

Components:

Ethoxylated 2,4,7,9-No data available.

tetramethyl 5 decyn-4,7-

diol

Inhalation

**Product:** LC 50 (Rat, 1 h): 5,15 mg/l Dusts, mists and fumes

LC 50 (Rat, 4 h): 1,2875 mg/l Dusts, mists and fumes

Components:



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Ethoxylated 2.4.7.9tetramethyl 5 decyn-4,7diol

LC 50 (Rat, 1 h): 5,15 mg/l Dusts, mists and fumes LC 50 (Rat, 4 h): 1,2875

mg/l Dusts, mists and fumes Vapour, No data available.

Repeated dose toxicity

Product: No data available.

**Components:** 

Ethoxylated 2,4,7,9tetramethyl 5 decyn-4,7diol

No data available.

Skin Corrosion/Irritation Not irritating

**Product:** Not irritating;

Components:

Ethoxylated 2,4,7,9tetramethyl 5 decyn-4,7Not irritating

Serious Eye Damage/Eye

Irritation

Risk of serious damage to eyes.

**Product:** Draize (Rabbit): Risk of serious damage to eyes.;

Components:

Ethoxylated 2,4,7,9tetramethyl 5 decyn-4,7-

diol

diol

Draize (Rabbit): Risk of serious damage to eyes.

Respiratory or Skin Sensitization

> **Product:** No data available.

Components:

Ethoxylated 2,4,7,9-

tetramethyl 5 decyn-4,7-

diol

No data available.

Carcinogenicity

**Product:** No data available.

Components:

Ethoxylated 2,4,7,9tetramethyl 5 decyn-4,7-

diol

No data available.

**Germ Cell Mutagenicity** 

No data available.

In vitro

**Product:** No data available.

Components:

Ethoxylated 2,4,7,9tetramethyl 5 decyn-4,7No data available.

diol



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In vivo

**Product:** No data available.

Components:

Ethoxylated 2,4,7,9- No data available. tetramethyl 5 decyn-4,7-

diol

Reproductive toxicity

**Product:** No data available.

Components:

Ethoxylated 2,4,7,9- No data available.

tetramethyl 5 decyn-4,7-

diol

**Specific Target Organ Toxicity - Single Exposure** 

**Product:** No data available.

Components:

Ethoxylated 2,4,7,9- No data available.

tetramethyl 5 decyn-4,7-

diol

**Specific Target Organ Toxicity - Repeated Exposure** 

**Product:** No data available.

Components:

Ethoxylated 2,4,7,9- No data available.

tetramethyl 5 decyn-4,7-

diol

**Aspiration Hazard** 

**Product:** Not classified

**Components:** 

Ethoxylated 2,4,7,9- Not classified

tetramethyl 5 decyn-4,7-

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:

Ethoxylated 2,4,7,9- No data available.

tetramethyl 5 decyn-4,7-

diol

**Aquatic Invertebrates** 

**Product:** No data available.



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**Components:** 

Ethoxylated 2,4,7,9tetramethyl 5 decyn-4,7No data available.

diol

**Toxicity to Aquatic Plants** 

Product:

EC 50 (Skeletonema costatum (marine diatom), 72 h): 93 mg/l

Components:

Ethoxylated 2,4,7,9tetramethyl 5 decyn-4,7EC 50 (Skeletonema costatum (marine diatom), 72 h): 93 mg/l

diol

diol

Toxicity to microorganisms

**Product:** No data available.

Components:

Ethoxylated 2,4,7,9tetramethyl 5 decyn-4,7No data available.

Chronic hazards to the aquatic environment:

Fish

**Product:** No data available.

Components:

Ethoxylated 2,4,7,9- No data available.

tetramethyl 5 decyn-4,7-

diol

**Aquatic Invertebrates** 

**Product:** No data available.

Components:

Ethoxylated 2,4,7,9tetramethyl 5 decyn-4,7No data available.

diol

**Toxicity to Aquatic Plants** 

**Product:** No data available.

Components:

Ethoxylated 2,4,7,9-tetramethyl 5 decyn-4,7-

No data available.

diol

Toxicity to microorganisms

**Product:** No data available.

Components:

Ethoxylated 2,4,7,9- No data available. tetramethyl 5 decyn-4,7-

diol

**Persistence and Degradability** 

Biodegradation

**Product:** 10 % (28 d) The product is not biodegradable.

Components:



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Ethoxylated 2,4,7,9tetramethyl 5 decyn-4,710 % (28 d) The product is not biodegradable.

diol

**BOD/COD Ratio** 

**Product:** No data available.

Components:

Ethoxylated 2,4,7,9- No data available.

tetramethyl 5 decyn-4,7-

diol

## **Bioaccumulative potential**

**Bioconcentration Factor (BCF)** 

**Product:** No data available.

Components:

Ethoxylated 2,4,7,9- No data available.

tetramethyl 5 decyn-4,7-

diol

Partition Coefficient n-octanol / water (log Kow)

**Product:** Log Kow: not measured

Components:

Ethoxylated 2,4,7,9- No data available.

tetramethyl 5 decyn-4,7-

diol

## Mobility in soil:

**Product** No data available.

Components:

Ethoxylated 2,4,7,9- No data available.

tetramethyl 5 decyn-4,7-diol

**Product** No data available.

Components:

Ethoxylated 2,4,7,9- No data available.

tetramethyl 5 decyn-4,7-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:** 26.03.2019

Version #: 2.2

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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