

Revision Date: 10/08/2019

SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier: SURFYNOL 465

Chemical name:

Ethoxylated acetylenic diols

Other means of identification

CAS Number: 9014-85-1

Recommended restrictions

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

Manufacturer/Importer/Distributor Information

Company Name : Evonik Corporation

Nutrition & Care PO Box 34628 Richmond, VA 23234

USA

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Fax : +1 804 727 0845

E-mail : us-productsafety-cs@evonik.com

Emergency telephone number:

24-Hour Health : +1 800 424 9300 (CHEMTREC - US & CANADA)

Emergency +1 800 681 9531 (CHEMTREC MEXICO)

+1 703 527 3887 (CHEMTREC WORLD)

2. Hazard(s) identification

Hazard Classification

Health Hazards

Acute toxicity (Inhalation - dust and Category 4

mist)

Serious Eye Damage/Eye Irritation Category 1

Label Elements

Hazard Symbol:



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Signal Word: Danger

Hazard Statement: Harmful if inhaled.

Causes serious eye damage.

Precautionary Statements

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

well-ventilated area. Wear protective gloves/protective clothing/eye

protection/face protection.

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

breathing. 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.

Hazard(s) not otherwise classified (HNOC):

None.

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	100%

^{*} 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: Ensure supply of fresh air. In the event of symptoms seek medical

advice.

Skin Contact: In case of contact with skin wash off with soap and water. In the event

of symptoms seek medical advice.

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

seek medical advice



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Ingestion: Thoroughly clean the mouth with water In the event of symptoms

seek medical advice.

Personal Protection for First-

aid Responders:

Do not inhale explosion and/or combustion gases, Use self-contained

breathing apparatus and wear protective suit

Most important symptoms/effects, 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:

Full water jet

Specific hazards arising from

the chemical:

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.

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.

Methods and material for containment and cleaning

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 Do not discharge into the

subsoil/soil.

7. Handling and storage

Handling



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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.

Hygiene measures: Wash hands before breaks and immediately after handling the product. Do

not eat, drink or smoke when working. Remove soiled or soaked clothing

immediately.

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

None of the components have assigned exposure limits.

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. Neoprene),

gloves made of nitril (NBR)

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. Do

not eat, drink or smoke when working. Remove soiled or soaked clothing

immediately.

9. Physical and chemical properties

Appearance

Physical state: liquid Form: liquid Color: Amber Odor: Mild

Odor Threshold: not measured

pH: 7 (25 °C)



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Freezing point: not measured

Boiling Point: 418 °C **Flash Point:** > 110 °C

Evaporation Rate: not measured Flammability (solid, gas): not measured **Explosive limit - upper (%):** not measured **Explosive limit - lower (%):** not measured Vapor pressure: 0.192 hPa (20 °C) Vapor density (air=1): not measured Density: 1.04 g/cm3 (21 °C) Relative density: not measured Solubility in Water: not measured Solubility (other): not measured Partition coefficient (n-octanol/water): not measured

Solubility (other):

Partition coefficient (n-octanol/water):

Self Ignition Temperature:

Decomposition Temperature:

Not measured

Other information

Explosive properties: not measured
Oxidizing properties: not oxidizing
Minimum ignition temperature: 335 °C

Metal Corrosion: Does not corrode metal.

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: No data available.

Hazardous Decomposition

Products:

None with proper storage and handling.

11. Toxicological information

Information on likely routes of exposure

Inhalation: Relevant route of exposure. Information on effects are given below.

Skin Contact: Relevant route of exposure. Information on effects are given below.

Eye contact: Relevant route of exposure. Information on effects are given below.

Ingestion: If handled correctly, not a relevant route of exposure. Information on effects

are given below.

Symptoms related to the physical, chemical and toxicological characteristics



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Inhalation: No data available.

Skin Contact: No data available.

No data available. Eye contact:

Ingestion: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: LD 50 (Rabbit): 6,300 mg/kg

Dermal

Product: No data available.

Not classified for acute toxicity based on available data.

Inhalation

Product: LC 50 (Rat): 5.15 mg/l Dusts, mists and fumes

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: Not irritating Not irritating

Serious Eye Damage/Eye Irritation

Product: Risk of serious damage to eyes. Rabbit:

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

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):

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: No data available.



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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

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

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

Persistence and Degradability

Biodegradation

Product: 10 % (28 d)

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: No data available.

Components:



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

diol

No data available.

Other adverse effects: 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.



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US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Chemical Identity

OSHA hazard(s)

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

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

US. EPCRA (SARA Title III) Section 312 Extremely Hazardous Substances Reporting Quantities (40 CFR 355, Appendix A)

Chemical Identity Threshold Planning Quantity

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

None present or none present in regulated quantities.

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)

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

US. New Jersey Worker and Community Right-to-Know Act

No ingredient regulated by NJ Right-to-Know Law present.

US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

Inventory Status:

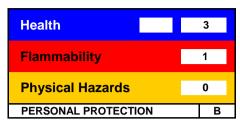
US TSCA Inventory: Included on Inventory.
Canada DSL Inventory List: Included on Inventory.



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

HMIS Hazard ID



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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Version #: 1.1

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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