

# SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

## 1. Identification

**Product identifier:** SURFYNOL® 2502

**Chemical name:**

Alkoxyated acetylenic diol

**Other means of identification**

**CAS Number:** 182211-02-5

**Recommended restrictions**

**Recommended use:** Industrial use

**Restrictions on use:** None known.

**Manufacturer/Importer/Distributor Information**

Company Name : Evonik Corporation  
Nutrition & Care  
7801 Whitepine Road  
Richmond, VA 23237  
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

**Hazard Classification**

**Health Hazards**

Serious Eye Damage/Eye Irritation Category 1

**Label Elements**

**Hazard Symbol:**



**Signal Word:** Danger

**Hazard Statement:**

Causes serious eye damage.

**Precautionary Statements**

**Prevention:**

Wear eye protection/face protection.

**Response:**

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.

**Hazard(s) not otherwise classified (HNOC):** None.

### 3. Composition/information on ingredients

**Chemical name:**

Alkoxylated acetylenic diol

**Substances**

| Chemical Identity  | Common name and synonyms | CAS number  | Content in percent (%) <sup>*</sup> |
|--|--------------------------|-------------|-------------------------------------|
| Oxirane, methyl-, polymer with oxirane, 1,4-dimethyl-1,4-bis(2-methylpropyl)-2-butyne-1,4-diyl ether |                          | 182211-02-5 | 100%                                |

<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 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 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.

**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:** No data available.

**Local/Total 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.

**Safe packaging materials:** No data available.

### 8. Exposure controls/personal protection

#### Control Parameters

##### Occupational Exposure Limits

None of the components have assigned exposure limits.

##### 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

#### 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. 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:** Mild

**Odor Threshold:** not measured

**Freezing point:** -94 °F/ -70 °C

**Boiling Point:** 693 °F/367 °C

**Flammability:** not measured

##### Upper/lower limit on flammability or explosive limits

**Explosive limit - upper:** not measured

|   |  |
|---|--|
| <b>Explosive limit - lower:</b>                 | not measured   |
| <b>Flash Point:</b>                             | 345 °F/174 °C  |
| <b>Auto-ignition temperature:</b>               | not measured   |
| <b>Decomposition Temperature:</b>               | not measured   |
| <b>pH:</b>                                      | 7 at 77 °F/25 °C<br>Concentration: 1 g/l<br>Concentration: 0.1 % |
| <b>Viscosity</b>                                |  |
| <b>Dynamic viscosity:</b>                       | not measured   |
| <b>Kinematic viscosity:</b>                     | not measured   |
| <b>Flow Time:</b>                               | No data available.   |
| <b>Solubility(ies)</b>                          |  |
| <b>Solubility in Water:</b>                     | not measured   |
| <b>Solubility (other):</b>                      | not measured   |
| <b>Partition coefficient (n-octanol/water):</b> | not measured   |
| <b>Vapor pressure:</b>                          | 0.0188 hPa at 68 °F/20 °C  |
| <b>Relative density:</b>                        | not measured   |
| <b>Density:</b>                                 | 1 g/cm <sup>3</sup> at 68 °F/20 °C                               |
| <b>Bulk density:</b>                            | No data available.   |
| <b>Relative vapor density:</b>                  | not measured   |
| <b>Other information</b>                        |  |
| <b>Explosive properties:</b>                    | not measured   |
| <b>Oxidizing properties:</b>                    | not oxidizing  |
| <b>Self-ignition:</b>                           | not measured   |
| <b>Metal Corrosion:</b>                         | Not corrosive to metals  |
| <b>Evaporation Rate:</b>                        | not measured   |

## 10. Stability and reactivity

|  |   |
|--|---|
| <b>Reactivity:</b>                         | see section "Possibility of hazardous reactions".       |
| <b>Chemical Stability:</b>                 | The product is stable under normal conditions.          |
| <b>Possibility of hazardous reactions:</b> | No hazardous reactions with proper storage and handling |
| <b>Conditions to avoid:</b>                | None with proper storage and handling.                  |
| <b>Incompatible Materials:</b>             | Not known.  |
| <b>Hazardous Decomposition Products:</b>   | None with proper storage and handling.                  |

## 11. Toxicological information

### 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, > 5,000 mg/kg, OECD 401

**Dermal**

**Product:** LD 50, Rabbit, > 5,000 mg/kg, OECD 402

**Inhalation**

**Product:** No data available.

**Repeated dose toxicity**

**Product:** No data available.

**Skin Corrosion/Irritation**

**Product:** Mildly Irritating, Mildly Irritating

**Serious Eye Damage/Eye Irritation**

**Product:** Risk of serious damage to eyes., OECD 405, Rabbit, Risk of serious damage to eyes.

**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 1910.1001-1053), as amended:**

No carcinogens present or none present in regulated quantities

**Germ Cell Mutagenicity**

No data available.

**In vitro**

**Product:** No data available.

**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:** LC 50, Oncorhynchus mykiss, 96 h, 206 mg/l

**Aquatic Invertebrates**

**Product:** EC 50, Daphnia magna, 48 h, 167 mg/l

**Toxicity to Aquatic Plants**

**Product:** EC 50, Algae (Pseudokirchneriella subcapitata), 96 h, 128 mg/l

**Toxicity to microorganisms**

**Product:** No data available.

**Chronic hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Aquatic Invertebrates**

**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:** , 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**

**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 (on the basis of current knowledge of the product composition).

**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 (on the basis of current knowledge of the product composition).



**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended**

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

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

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

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

**Hazard categories**

Serious eye damage or eye irritation

**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 313 Toxic Chemical Release Inventory (TRI) Reporting**

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

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

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

**US State Regulations**

**US. California Proposition 65**

Not Regulated.

No ingredient requiring a warning under CA Prop 65.

**Inventory Status:**

|                                   |                        |
|-----------------------------------|------------------------|
| <b>US TSCA Inventory:</b>         | Included on Inventory. |
| <b>Canada DSL Inventory List:</b> | Included on Inventory. |

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

**HMIS Hazard ID**

|                            |                                |
|----------------------------|--------------------------------|
| <b>Health</b>              | <input type="text" value="2"/> |
| <b>Flammability</b>        | <input type="text" value="1"/> |
| <b>Physical Hazards</b>    | <input type="text" value="0"/> |
| <b>PERSONAL PROTECTION</b> | <input type="text"/>           |

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

**Version #:** 1.1

**Generation date:** 05/17/2024

**Date of first report version:** 03/13/2019

**Abbreviations and acronyms:**

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

**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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