

Version: 2.0

Date of previous report version: 03/07/2023

Revision: 09/02/2025

Date of first report version: 03/13/2019

SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

1. Identification

Product identifier: SURFYNOL® AD-01

Chemical name:

Alkane diol

Other means of identification

None.

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 Emergency

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

Telephone

800 681 9531 (CHEMTREC MEXICO) +1 703 527 3887 (CHEMTREC WORLD)

2. Hazard(s) identification

Hazards for the product as supplied

Health Hazards

Serious eye irritation Category 2A

Environmental Hazards

Chronic hazards to the aquatic

Category 3

environment

Hazard(s) not otherwise

None.

classified (HNOC):

Label Elements

Hazard Symbol:



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Signal Word: Warning

Hazard Statement:

Causes serious eye irritation.

Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention: Avoid release to the environment. Wear eye protection/face protection.

Wash hands thoroughly after handling.

Response: 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 appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

3. Composition/information on ingredients

Chemical name:

Alkane diol

Substances

Chemical Identity	Common name and synonyms	CAS No./Unique ID	Content in percent (%)*	Trade Secret
2,4,7,9-Tetramethyl-4,7-Decanediol		17913-76-7*	50 - <100%	TSC

^{*} Indicates that the identifier is a CAS No.

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. If symptoms persist, seek medical advice.

TSC- the actual concentration or concentration range is withheld as a trade secret

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.



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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: Serious eye irritation

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



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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). 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

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 (PPE)

Eye/face protection: Safety glasses

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 at the end of workday.

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: Viscous Liquid

Color: White

Odor: of methanol



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Odor Threshold: not measured Freezing point: -35 °F/ -37 °C

Method: EU Method A.1

Boiling Point: 532 °F/ 278 °C

Method: OECD 103

Flammability: not measured
Upper/lower limit on flammability or explosive limits
Explosive limit - upper: not measured
Explosive limit - lower: not measured

> 230 °F/> 110 °C

Method: EC Method A.9

279 °F/137 °C

Auto-ignition temperature: 725 °F/385 °C

Method: EC Method A.15

Decomposition Temperature: 536 °F/280 °C

pH: 7 (77 °F/25 °C)
Concentration: 10 g/l

Concentration: 10 g/l Concentration: 1 %

in Water

Viscosity

Flash Point:

Dynamic viscosity: 1,131 mPa.s (77 °F/25 °C)

150 mPa.s (104 °F/40 °C)

Kinematic viscosity: 165 mm2/s (104 °F/40 °C)

Flow Time: No data available.

Solubility(ies)

Solubility in Water: Approximate

1.57 g/l (67.6 °F/19.8 °C)

Method: OECD 105

Solubility (other): not measured

Partition coefficient (n-octanol/water): 3.8 (77 °F/25 °C)

Method: OECD 117

Vapor pressure: Approximate

0.00019 hPa (68 °F/20 °C) Method: OECD 104

15.3 mbar (302 °F/150 °C)

Relative density: not measured

Density: 0.9 g/cm3 (77 °F/25 °C)

Method: EC Method A.3

0.904 g/cm3 (70.0 °F/21.1 °C)

Bulk density:No data available.Relative vapor density:not measuredParticle characteristics:Not applicable.



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Other information

Explosive properties: not measured Oxidizing properties: not oxidizing Self-ignition: 725 °F/385 °C 1,013 hPa

Method: EC Method A.15

Metal Corrosion: Not corrosive to metals

Evaporation Rate: not measured Surface tension: 33.4 mN/m

1.4

mg/I (68 °F/20 °C)

10. Stability and reactivity

see section "Possibility of hazardous reactions". Reactivity:

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 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.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Acute toxicity (list all possible routes of exposure)

Oral

US

Product: LD 50, Rat, Female, Male, > 2,000 mg/kg, OECD 423

Components:

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LD 50, Rat, Female, Male, > 2,000 mg/kg, OECD 423 2,4,7,9-Tetramethyl-4,7-

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Decanediol

Dermal

Product: LD 50, Rat, Female, Male, > 2,000 mg/kg, OECD 402

Components:

2,4,7,9-Tetramethyl-4,7-

Decanediol

LD 50, Rat, Female, Male, > 2,000 mg/kg, OECD 402

Inhalation

Product: Vapour, Not toxic after single exposure, No data available.

Dust and mist, Not toxic after single exposure, No data available.

Components:

Decanediol

2,4,7,9-Tetramethyl-4,7-

-

Vapour, Not toxic after single exposure, No data available.

Dust and mist, Not toxic after single exposure, No data available.

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: Not irritating, OECD 404, (Rabbit, 4 h)

Components:

2,4,7,9-Tetramethyl-4,7-

Decanediol

Not irritating, OECD 404, Rabbit, 4 h

Serious Eye Damage/Eye Irritation

Product: Irritating., OECD 405, Rabbit

Components:

2,4,7,9-Tetramethyl-4,7-

- Ir

Irritating., OECD 405, Rabbit

Decanediol

Respiratory or Skin Sensitization

Product: Local Lymph Node Assay (LLNA), OECD 429, Mouse, Not a skin

sensitizer.

Components:

2,4,7,9-Tetramethyl-4,7-

Local Lymph Node Assay (LLNA), OECD 429, Mouse, Not a skin

Decanediol

sensitizer.

Carcinogenicity

Product: No data available.

Germ Cell Mutagenicity

No data available.

In vitro

Product: Chromosomal aberration, OECD 473: , negative

Ames test, OECD 471: , negative

gene mutation test, OECD 476: , (analogy)

Components:

Decanediol

2,4,7,9-Tetramethyl-4,7-

Chromosomal aberration, OECD 473:, negative

Ames test, OECD 471: , negative

gene mutation test, OECD 476:, (analogy)

In vivo

Not classified based on available data.

Reproductive toxicity Effects on fertility



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Product: Species: Rat

Strain: Sprague-Dawley

Route: Oral

Dose: 500, 1000, 2000 mg/kg General Toxicity Parent: 500 mg/kg General Toxicity F1: NOAEL, 500 mg/kg

Components:

2,4,7,9-Tetramethyl-4,7-

Species: Rat

Decanediol

Strain: Sprague-Dawley

Route: Oral

Dose: 500, 1000, 2000 mg/kg General Toxicity Parent: 500 mg/kg General Toxicity F1: NOAEL, 500, mg/kg

Effects on fetal development

Not classified based on available data.

Reproductive toxicity - Assessment

Product: Reproductive toxicity: No data available.

Teratogenicity: 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

Components:

2,4,7,9-Tetramethyl-4,7-

Not classified

Decanediol

Information on health hazards

Other hazards

Product: No data available.

12. Ecological information

Ecotoxicity:

Toxicity to Aquatic Plants

Product: EC 50, Algae (Pseudokirchneriella subcapitata), 72 h, Approximate, 127

mg/I, OECD 201

NOEC, Algae (Pseudokirchneriella subcapitata), 72 h, 6.25 mg/l, OECD

201

Components:

2,4,7,9-Tetramethyl-4,7-

EC 50, Algae (Pseudokirchneriella subcapitata), 72 h, Approximate, 127

Decanediol mg/l, OECD 201

NOEC, Algae (Pseudokirchneriella subcapitata), 72 h, 6.25 mg/l, OECD

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201

Toxicity to microorganisms

Product: EC 50, activated sludge, 3 h, > 1,000 mg/l, OECD 209

Components:

2,4,7,9-Tetramethyl-4,7-

Decanediol

US

EC 50, activated sludge, 3 h, > 1,000 mg/l, OECD 209

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Toxicity to soil dwelling organisms

Product: No data available.

Toxicity to terrestrial organisms

Product: No data available.

Acute hazards to the aquatic environment:

Fish

Product: LC 50, Oncorhynchus mykiss, 96 h, Approximate, 53.2 mg/IOECD 203

Components:

2,4,7,9-Tetramethyl-4,7- LC 50, Oncorhynchus mykiss, 96 h, Approximate, 53.2 mg/IOECD 203

Decanediol

Aquatic Invertebrates

Product: EC 50, Daphnia magna, 48 h, Approximate, 127 mg/IOECD 202

Components:

2,4,7,9-Tetramethyl-4,7- EC 50, Daphnia magna, 48 h, Approximate, 127 mg/lOECD 202

Decanediol

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Persistence and Degradability

Biodegradation

Product: 44 %, 28 d, OECD 301 F, The product is not biodegradable., aerobic

Components:

2,4,7,9-Tetramethyl-4,7- 44 %, 28 d, OECD 301 F, The product is not biodegradable., aerobic

Decanediol

BOD/COD Ratio

No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: 3.8, 25 °C, OECD 117

Components:

2,4,7,9-Tetramethyl-4,7- 3.8, 25 °C, OECD 117

Decanediol

Mobility in soil:

No data available.

Results of PBT and vPvB assessment:

No data available.

Other adverse effects:



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Additional ecological information

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

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 and 725, 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



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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

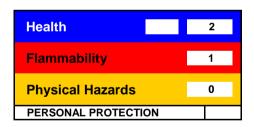
No ingredient requiring a warning under CA Prop 65.

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



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

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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



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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:

This product contains a component that is subject to SNAC (Significant New Activity) in Canada. Registration is required if product is used in any quantity for domestic cleaners or personal care products.

Revision Information

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

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