

Version: 1.1 Revision Date: 03/07/2023

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 Health	: +1 800 424 9300 (CHEMTREC - US & CANADA)
Emergency	800 681 9531 (CHEMTREC MEXICO)
	+1 703 527 3887 (CHEMTREC WORLD)

2. Hazard(s) identification

Health Hazards	0.1
Serious eye irritation	Category 2A
Environmental Hazards	
Chronic hazards to the aquatic environment	Category 3
Label Elements	
Hazard Symbol:	



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

3. Composition/information on ingredients

Chemical name:

Alkane diol

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
2,4,7,9-Tetramethyl-4,7-Decanediol		17913-76-7	50 - <100%
* All concentrations are percent by weight upless ingradient is a gen. Can concentrations are in percent by volume			

* 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:	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.
Ingestion:	Thoroughly clean the mouth with water In case of discomfort: Supply with medical care.



No data available.	
acute and delayed	
Serious eye irritation	
No data available.	
lication of immediate medical attention and special treatment needed Treat symptomatically.	
ng media foam, carbon dioxide, dry powder, water spray.	
High volume water jet.	
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	
ecautions for firefighters	
No specific precautions.	
Do not inhale explosion and/or combustion gases. Use self- contained breathing apparatus and wear protective suit	
Use personal protective equipment.	
No data available.	
Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with the regulations.	
Do not allow to enter drains or waterways Prevent product	
from getting into subsoil/soil.	

Handling	
Technical measures (e.g. Loca general ventilation):	al and 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.
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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 ingr	edient(s).	
Appropriate Engineering Controls	No data available.	
Individual protection measures, such as personal protective equipment		
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 chem Appearance	ical properties
Physical state:	liquid
Form:	Viscous Liquid
Color:	White
Odor:	of methanol
Odor Threshold:	not measured
Freezing point:	-35 °F/-37 °C (EC Method A.1)
Boiling Point:	532 °F/278 °C (OECD 103)
Flammability:	not measured
Upper/lower limit on flammability or e	explosive limits
Explosive limit - upper:	not measured
Explosive limit - lower:	not measured
Flash Point:	> 230 °F/> 110 °C (EC Method A.9) 279 °F/137 °C
Auto-ignition temperature:	725 °F/385 °C (1,013 hPa, EC Method A.15)



Decomposition Temperature:	536 °F/280 °C
pH:	7 (10 g/l, 25 °C) in Water
Viscosity	
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, OECD 105)
Solubility (other):	not measured
Partition coefficient (n- octanol/water):	3.8 (OECD 117)
Vapor pressure:	Approximate 0.00019 hPa (68 °F/20 °C) (OECD 104) 15.3 mbar (302 °F/150 °C)
Relative density:	not measured
Density:	0.9 g/cm3 (77 °F/25 °C) (EC Method A.3) 0.904 g/cm3 (70.0 °F/21.1 °C)
Bulk density: Relative vapor density:	No data available. not measured
Other information	
Explosive properties:	not measured
Oxidizing properties:	not oxidizing
Minimum ignition temperature:	725 °F/385 °C (EC Method A.15)
Metal Corrosion:	Not corrosive to metals
Evaporation Rate:	not measured
Surface tension	33.4 mN/m, 1.4 mg/l, 68 °F/20 °C, OECD 115
Stability and reactivity	

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 (Rat, Female, Male): > 2,000 mg/kg (OECD 423) Dermal **Product:** LD 50 (Rat, Female, Male): > 2,000 mg/kg (OECD 402) Inhalation **Product:** No data available. Repeated dose toxicity Product: No data available. **Skin Corrosion/Irritation Product:** Not irritating OECD 404 (Rabbit, 4 h): Not irritating; Serious Eye Damage/Eye Irritation **Product:** Irritating. Rabbit: Irritating. **Respiratory or Skin Sensitization** Product: Local Lymph Node Assay (LLNA), OECD 429 (Mouse): Not a skin sensitizer. Carcinogenicity Product: No data available. Germ Cell Mutagenicity No data available. In vitro **Product:** Chromosomal aberration (OECD 473): negative; Bacterial reverse mutation assay (OECD 471): negative; gene mutation test (OECD 476): negative; The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).; 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): Approximate 53.2 mg/l			
Aquatic Invertebrates Product:	EC 50 (Daphnia magna, 48 h): Approximate 127 mg/l			
Toxicity to Aquatic Plants Product:	ErC50 (Algae (Pseudokirchneriella subcapitata), 72 h): 127 mg/l (OECD 201)			
Toxicity to microorganisms Product:	EC 50 (activated sludge, 3 h): > 1,000 mg/l (OECD 209)			
Chronic hazards to the aquatic environment:				
Fish Product:	No data available.			
Aquatic Invertebrates Product:	No data available.			
Toxicity to Aquatic Plants Product:	No data available.			
Components: 2,4,7,9-Tetramethyl-4,7- Decanediol	NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): 6.25 mg/l (OECD 201)			
Toxicity to microorganisms Product:	EC 50 (activated sludge, 3 h): > 1,000 mg/l (OECD 209)			
Persistence and Degradability				
Biodegradation Product:	44 % (28 d, OECD 301 F) The product is not biodegradable.			
BOD/COD Ratio Product:	No data available.			
Bioaccumulative potential				
Bioconcentration Factor (BCF) Product:	No data available.			
Partition Coefficient n-octanol Product:	/ water (log Kow) Log Kow: 3.8 25 °C (OECD 117)			
Mobility in soil:				
Product	No data available.			
Results of PBT and vPvB assessment:				
Product	No data available.			
	7/10			
	1710			



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 go Remarks :	ood Not dangerous according to transport regulations.
International Regulations	
UNRTDG Not regulated as a dangerous go	bod
IATA-DGR Not regulated as a dangerous go	ood
IMDG-Code Not regulated as a dangerous go	ood
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.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended None present or none present in regulated quantities.

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

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.

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.

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

Health	2
Flammability	1
Physical Hazards	0
PERSONAL PROTECTION	

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

Issue Date:	03/13/2019
Version #:	1.1
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	Changes since the last version are highlighted in the margin. This version replaces all previous versions.



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