

Version: 1.4 Revision Date: 03/05/2020

# SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

#### 1. Identification

#### Product identifier: SURFYNOL® 104 H

## Chemical name:

Acetylenic diol in solvent

#### 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 PO Box 34628 Richmond, VA 23234 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
Skin sensitizer	Category 1
Toxic to reproduction	Category 2
Specific Target Organ Toxicity - Repeated Exposure (Oral)	Category 2 (Kidney)

#### Label Elements

Hazard Symbol:





Signal Word	1:	Danger
Hazard Stat	ement:	May cause an allergic skin reaction. Causes serious eye damage. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure if swallowed.
Precautiona Statements	ıry	
Prevention:		Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wear eye protection/face protection. Wear protective gloves. Use personal protective equipment as required.
Response:		IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Immediately call a POISON CENTER/doctor. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Storage:		Store locked up.
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 otherv classified (HNOC):	wise	None.

## 3. Composition/information on ingredients

#### Chemical name:

Acetylenic diol in solvent

#### **Mixtures**

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
2,4,7,9-Tetramethyldec-5-yne-4,7-diol		126-86-3	75%
Ethane-1,2-diol	Ethylene glycol	107-21-1	25%

\* 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:	Remove soiled or soaked clothing immediately	
Inhalation:	Ensure supply of fresh air. Seek medical advice if symptoms occur.	
Skin Contact:	In case of contact with skin wash off with soap and water. Seek medical advice if symptoms occur.	
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 Call a physician immediately.	
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:	High volume water jet	
Specific hazards arising from the chemical:	In the event of fire the following can be released: - carbon dioxide, carbon monoxide Aldehydes. 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,	Use personal protective equipment.
protective equipment and emergency procedures:	
child geney proceduree.	



Methods and material for containment and cleaning up:	Take up with absorbent material (eg sand, kieselguhr, universal 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	
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. Use barrier skin cream.
Storage	
Safe storage conditions:	Keep container tightly closed in a cool, well-ventilated place.Do not store with acids or alkalies Do not store together with oxidizing agents.
Safe packaging materials:	No data available.
Storage Temperature:	No data available.

## 8. Exposure controls/personal protection

#### Control Parameters Occupational 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. Use barrier skin cream.

#### 9. Physical and chemical properties

Appearance	
Physical state:	liquid
Form:	liquid
Color:	Pale yellow
Odor:	like menthol
Odor Threshold:	not measured
pH:	not measured
Freezing point:	10 °C (estimated)
Boiling Point:	> 199 °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:	< 1.3 hPa (21 °C)
Vapor density (air=1):	not measured
Density:	0.95 g/cm3 (21 °C)
Relative density:	not measured
Solubility in Water:	not measured
Solubility (other):	not measured
Partition coefficient (n-octanol/water):	not measured
Self Ignition Temperature:	not measured
Decomposition Temperature:	not measured
Kinematic viscosity:	not measured
Dynamic viscosity:	not measured
Other information	
Explosive properties:	not measured
Oxidizing properties:	not oxidizing
Minimum ignition temperature:	not measured
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:	Oxidizing agents. acids alkalines



Hazardous Decomposition	None with proper storage and handling.
Products:	

11. Toxicological information	
Information on likely routes of ex Inhalation:	<b>posure</b> 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 physica	I, chemical and toxicological characteristics
Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.
Information on toxicological effe	cts
Acute toxicity (list all possible	routes of exposure)
Oral Product:	LD 50 (Rat): 4,700 mg/kg
Dermal Product:	LD 50 (Rabbit): > 2,000 mg/kg
Inhalation Product:	LC 50 (Rat): > 20 mg/l Vapour
Repeated dose toxicity Product:	No data available.
Skin Corrosion/Irritation Product:	No data available.
Serious Eye Damage/Eye Irritatio Product:	on No data available.
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), as amended: No carcinogens present or none present in regulated quantities

#### **Germ Cell Mutagenicity**

In vitro Product:	No data available.
<b>Components:</b> 2,4,7,9-Tetramethyldec-5- yne-4,7-diol	Ames test (OECD 471): negative Own study Chromosomal aberration (OECD 473): negative Own study gene mutation test (OECD 476): negative Own study
In vivo Product:	No data available.
Reproductive toxicity Product:	No data available.
Specific Target Organ Toxicity - Product:	Single Exposure No data available.
Specific Target Organ Toxicity - Product:	Repeated Exposure 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:

roduct:	No data available.



Toxicity to Aquatic Plants Product:	No data available.	
Persistence and Degradability		
Biodegradation Product:	No data available.	
BOD/COD Ratio Product:	No data available.	
Bioaccumulative potential Bioconcentration Factor (BC Product:	<b>CF)</b> No data available.	
Partition Coefficient n-octanol / v Product:	<b>vater (log Kow)</b> Log Kow: not measured	
Mobility in soil:	No data available.	
<b>Components:</b> 2,4,7,9-Tetramethyldec-5- yne-4,7-diol	No data available.	
Ethane-1,2-diol	No data available.	
Other adverse effects:	Do not allow to enter soil, waterways or waste water canal.	
Disposal methods: Contaminated Packaging:	In accordance with local authority regulations, take to special waste incineration plant If empty contaminated containers are recycled or disposed of, the recein must be informed about possible hazards.	iver
14. Transport information		
Domestic regulation		
<b>49 CFR</b> Not regulated as a dangerous g Remarks	<ul> <li>jood</li> <li>USA: Not regulated for transport when package contains less than the reportable quantity listed in section 15 of the SDS., Not a Marine Pollutant in the United States.</li> </ul>	
International Regulations		
<b>UNRTDG</b> Not regulated as a dangerous g	jood	
<b>IATA-DGR</b> Not regulated as a dangerous g Remarks	jood : ERG-Code 9L	
IMDG-Code Not regulated as a dangerous g	jood	
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#### 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

<u>Chemical Identity</u> <u>OSHA hazard(s)</u> 2-Pentanone, 4-methyl-

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

Chemical Identity ETHYLENE GLYCOL 4-METHYL-2-PENTANONE

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

#### **Hazard categories**

Serious eye damage or eye irritation, Respiratory or Skin Sensitization, Reproductive toxicity, Specific target organ toxicity (single or repeated exposure)

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

Chemical Identity Ethane-1,2-diol

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None present or none present in regulated quantities.

% by weight

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) None present or none present in regulated quantities.

1.0%

## US State Regulations

#### - ----- **----**

#### US. California Proposition 65



**WARNING:** This product can expose you to chemicals including, Ethane-1,2-diolwhich is [are] known to the State of California to cause birth defects or other reproductive harm.

For more information go to www.P65Warnings.ca.gov.

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

Chemical Identity Ethane-1,2-diol



#### US. Massachusetts RTK - Substance List

Chemical Identity Ethane-1,2-diol

#### US. Pennsylvania RTK - Hazardous Substances

Chemical Identity Ethane-1,2-diol

#### US. Rhode Island RTK

#### Chemical Identity

Ethane-1,2-diol

#### **Inventory Status:**

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

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

#### **HMIS Hazard ID**



Ask supervisor or safety specialist for handling instructions

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

