

Revision Date: 03/05/2020

# SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

## 1. Identification

Product identifier: SURFYNOL 104 DPM

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 : us-productsafety-cs@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**

**Physical Hazards** 

Flammable liquids Category 4

**Health Hazards** 

Serious Eye Damage/Eye Irritation Category 1 Skin sensitizer Category 1

#### **Label Elements**

## **Hazard Symbol:**



Revision Date: 03/05/2020



Signal Word: Danger

Hazard Statement: Combustible liquid.

May cause an allergic skin reaction.

Causes serious eye damage.

Precautionary Statements

**Prevention:** Avoid breathing dust/fume/gas/mist/vapors/sprav. Contaminated work

clothing should not be allowed out of the workplace. Wear protective gloves/eye protection/face protection. Keep away from heat/sparks/open

flames. - No smoking.

**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. Immediately call a POISON CENTER/doctor. If skin irritation or rash occurs: Get medical

advice/attention. Wash contaminated clothing before reuse. In case of fire:

Use dry sand, dry chemical or alcohol-resistant foam for extinction.

**Storage:** Store in a well-ventilated place. Keep cool.

**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:

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	50%
(2-Methoxymethylethoxy)propanol		34590-94-8	50%

<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 necessary first-aid measures

General information: Remove soiled or soaked clothing immediately



Revision Date: 03/05/2020

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 Seek medical advice if

symptoms occur.

**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, protective equipment and emergency procedures:

Use personal protective equipment.

0000000000001477081

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.

3/11

Revision Date: 03/05/2020

**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

No data available.

and general ventilation):

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:

Safe handling advice:

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**

Chemical Identity	Туре	Exposure Limit Values		US. ACGIH Threshold Limit Values, as amended (03 2016)	
(2- Methoxymethylethoxy)propan ol	lethoxymethylethoxy)propan				
	STEL	150 ppm		US. ACGIH Threshold Limit Values, as amended (03 2016)	
	REL	100 ppm	600 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)	
	STEL	150 ppm	900 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)	
	PEL	100 ppm	600 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (03 2016)	
	IDLH	600 ppm		US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)	
	AN ESL		50 ppb	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)	
	AN ESL		310 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (06 2018)	
	ST ESL		3,100 μg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as	

Revision Date: 03/05/2020

			amended (06 2018)
ST	TESL	500 ppb	US. Texas. Effects Screening Levels (Texas
			Commission on Environmental Quality), as
			amended (06 2018)

Hazardous components without workplace control parameters

**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: not measured

**Boiling Point:** 212 °C **Flash Point:** 89 °C

**Evaporation Rate:** not measured Flammability (solid, gas): not measured **Explosive limit - upper:** not measured **Explosive limit - lower:** not measured Vapor pressure: 2.128 hPa (21 °C) Vapor density (air=1): not measured Density: 0.93 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



Revision Date: 03/05/2020

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** 

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.

## Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

**Product:** No data available.

Dermal

**Product:** LD 50 (Rabbit): > 2,000 mg/kg



Revision Date: 03/05/2020

Inhalation

**Product:** No data available.

Repeated dose toxicity

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** No data available.

Serious Eye Damage/Eye Irritation

**Product:** 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.

Components:

2,4,7,9-Tetramethyldec-5- Ames test (OECD 471): negative Own study

yne-4,7-diol 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 - 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.

7/11



Revision Date: 03/05/2020

## 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:** 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:** Log Kow: not measured

Mobility in soil: No data available.

Components:

2,4,7,9-Tetramethyldec-5- No data available.

yne-4,7-diol

(2- No data available.

Methoxymethylethoxy)pro

panol

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



Revision Date: 03/05/2020

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** 

UN/ID/NA number : NA 1993

Proper shipping name : Combustible liquid, n.o.s.

(Methoxymethylethoxypropanol, 2-)

Class : CBL
Packing group : III
Labels : NONE
ERG Code : 128
Marine pollutant : no

Remarks : Not regulated in packages 450 liter or less.

#### International Regulations

#### **UNRTDG**

Not regulated as a dangerous good

## **IATA-DGR**

Not regulated as a dangerous good

Remarks : Not hazardous freight in air traffic (ICAO-TI / IATA-DGR).

#### **IMDG-Code**

Not regulated as a dangerous good

Remarks : Not classified as hazardous sea cargo (IMDG code)FOR USA

ONLY: In packagings exceeding 450 L, this product must be classified, placarded, marked and shipped as Combustible

Liquid to the USA.

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 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

Chemical Identity OSHA hazard(s)

2-Pentanone, 4-methyl-

9/11

Revision Date: 03/05/2020

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

#### **Chemical Identity**

4-METHYL-2-PENTANONE

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

#### **Hazard categories**

Flammable (gases, aerosols, liquids, or solids), Serious eye damage or eye irritation, Respiratory or Skin Sensitization

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

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

## **Chemical Identity**

(2-Methoxymethylethoxy)propanol

## **US. Massachusetts RTK - Substance List**

#### **Chemical Identity**

(2-Methoxymethylethoxy)propanol

## US. Pennsylvania RTK - Hazardous Substances

## **Chemical Identity**

(2-Methoxymethylethoxy)propanol

#### US. Rhode Island RTK

## **Chemical Identity**

(2-Methoxymethylethoxy)propanol

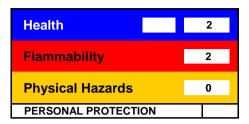
## **Inventory Status:**

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

Revision Date: 03/05/2020

## 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

**Issue Date:** 03/05/2020

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.

**Disclaimer:** This information and any recommendations, technical or otherwise, are

presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES

OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE

ACCURACY, COMPLETENESS, NON-INFRINGEMENT,

MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes to the information and/or recommendations at any time, without prior or

subsequent notice.