

Revision Date: 03/05/2020

SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

1. Identification

Product identifier: SURFYNOL 104 PA

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 2

Health Hazards

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

Specific Target Organ Toxicity - Category 3 (Central nervous system.)

Label Elements



Revision Date: 03/05/2020

Hazard Symbol:



Signal Word: Danger

Hazard Statement: Highly flammable liquid and vapor.

May cause an allergic skin reaction.

Causes serious eye damage.

May cause drowsiness or dizziness.

Precautionary Statements

Prevention: Keep container tightly closed. Avoid breathing

dust/fume/gas/mist/vapors/spray. Wear protective gloves/eye

protection/face protection. Keep away from heat/sparks/open flames. - No

smoking.

Response: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse

skin with water [or shower]. 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.

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%
Propan-2-ol		67-63-0	50%

^{*} 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: Repeated and/or prolonged exposure to low concentrations of vapors

and/or aerosols may cause: Sore throat.

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:

Keep away from sources of ignition Take action to prevent static discharges. Vapours may form explosive mixtures with air. Cool

endangered containers by water spray

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. Keep away sources of ignition.



Revision Date: 03/05/2020

Methods and material for containment and cleaning up:

rake Disn

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. Keep away

from heat.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	Source
Propan-2-ol	TWA	200 ppm		US. ACGIH Threshold Limit Values, as
				amended (03 2016)
	STEL	400 ppm		US. ACGIH Threshold Limit Values, as
				amended (03 2016)
	REL	400 ppm	980 mg/m3	US. NIOSH: Pocket Guide to Chemical
				Hazards, as amended (2010)
	STEL	500 ppm	1,225	US. NIOSH: Pocket Guide to Chemical
			mg/m3	Hazards, as amended (2010)
	PEL	400 ppm	980 mg/m3	US. OSHA Table Z-1 Limits for Air
				Contaminants (29 CFR 1910.1000), as
				amended (03 2016)

Hazardous components without workplace control parameters

Appropriate Engineering

Controls

No data available.

Individual protection measures, such as personal protective equipment

Revision Date: 03/05/2020

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: 80 °C Flash Point: 18.9 °C

Evaporation Rate: not measured Flammability (solid, gas): not measured **Explosive limit - upper:** not measured **Explosive limit - lower:** not measured Vapor pressure: 47.9 hPa (21 °C) Vapor density (air=1): not measured Density: 0.84 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

Other information

Dynamic viscosity:

Explosive properties: not measured

Oxidizing properties: not oxidizing

Minimum ignition temperature: > 350 °C

Metal Corrosion: Does not corrode metal.

not measured



Revision Date: 03/05/2020

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: Open flames, sparks or input of much heat

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: LD 50 (Rat): > 2,000 mg/kg The product or a component is a CNS

depressant.

Dermal

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

Inhalation

Product: No data available.

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation



Revision Date: 03/05/2020

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

Propan-2-ol Ames test: no evidence of mutagenic effects literature

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.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Revision Date: 03/05/2020

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

Propan-2-ol No data available.

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

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



Revision Date: 03/05/2020

UN/ID/NA number : UN 1219
Proper shipping name : Isopropanol

Class : 3
Packing group : II
Labels : 3
ERG Code : 129
Marine pollutant : no

International Regulations

IATA-DGR

UN/ID No. : UN 1219
Proper shipping name : Isopropanol

Class : 3
Packing group : II
Labels : 3
Packing instruction (cargo : 364

aircraft)

Packing instruction : 353

(passenger aircraft)

Remarks : ERG-Code 3L

IMDG-Code

UN number : UN 1219

Proper shipping name : ISOPROPANOL

Class : 3
Packing group : II
Labels : 3
EmS Code : F-E, S-D
Marine pollutant : no

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-

Revision Date: 03/05/2020

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity

RCRA HAZARDOUS WASTE NO. D001 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, 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 % by weight

Propan-2-ol 1.0%

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

Propan-2-ol

US. Massachusetts RTK - Substance List

Chemical Identity

Propan-2-ol

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Propan-2-ol

US. Rhode Island RTK

Chemical Identity

Propan-2-ol

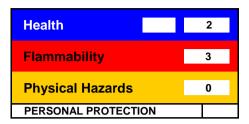
Inventory Status:

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

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Version #: 1.2

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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