

# SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

## 1. Identification

**Product identifier:** SURFYNOL® 61  
**Chemical name:**  
Acetylenic Alcohol

**Other means of identification**  
**CAS Number:** 107-54-0

**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

#### Physical Hazards

Flammable liquids Category 3

#### Health Hazards

Acute toxicity (Oral) Category 4

Skin Corrosion/Irritation Category 2

Serious Eye Damage/Eye Irritation Category 2A

### Label Elements

**Hazard Symbol:**



**Signal Word:** Warning

**Hazard Statement:**  
 Flammable liquid and vapor.  
 Harmful if swallowed.  
 Causes skin irritation.  
 Causes serious eye irritation.  
 Harmful to aquatic life.

**Precautionary Statements**

**Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

**Response:** IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. If skin irritation occurs: Get medical advice/attention. Specific treatment (see on this label). If eye irritation persists: Get medical advice/attention. In case of fire: Use... to extinguish.

**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):** Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment.

**3. Composition/information on ingredients**

**Chemical name:**  
 Acetylenic Alcohol

**Substances**

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%) <sup>*</sup>
3,5-dimethylhex-1-yn-3-ol		107-54-0	50 - <100%

<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

<b>General information:</b>	Immediately remove contaminated clothing.
<b>Inhalation:</b>	fresh air supply, consult a doctor if feeling unwell.
<b>Skin Contact:</b>	In case of contact with skin wash off with soap and water. If skin irritation persists, call a physician.
<b>Eye contact:</b>	In case of contact with eyes rinse thoroughly with plenty of water. If symptoms persist, seek medical advice.
<b>Ingestion:</b>	Thoroughly clean the mouth with water In case of discomfort: Supply with medical care.
<b>Personal Protection for First-aid Responders:</b>	Do not inhale explosion and/or combustion gases, Use self-contained breathing apparatus and wear protective suit

## Most important symptoms/effects, acute and delayed

<b>Symptoms:</b>	Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: Sore throat.
<b>Hazards:</b>	No data available.

## Indication of immediate medical attention and special treatment needed

<b>Treatment:</b>	Treat symptomatically.
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## 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 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

<b>Personal precautions, protective equipment and emergency procedures:</b>	Use personal protective equipment. Keep away sources of ignition. Ensure adequate ventilation.
<b>Methods and material for containment and cleaning up:</b>	Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder). Dispose of absorbed material in accordance with the regulations.
<b>Environmental Precautions:</b>	Do not allow to enter drains or waterways Do not discharge into the subsoil/soil.

## 7. Handling and storage

### Handling

<b>Technical measures (e.g. Local and general ventilation):</b>	No data available.
<b>Safe handling advice:</b>	Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid contact with skin and eyes. Do not inhale gases/vapours/aerosols.
<b>Contact avoidance measures:</b>	No data available.
<b>Hygiene measures:</b>	Wash hands before breaks and immediately after handling the product. Do not eat, drink or smoke when working. Remove soiled or soaked clothing immediately.

### Storage

<b>Safe storage conditions:</b>	Keep container tightly closed in a cool, well-ventilated place. Do not store together with oxidizing agents.
<b>Safe packaging materials:</b>	No data available.
<b>Storage Temperature:</b>	No data available.

## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

None of the components have assigned exposure limits.

<b>Appropriate Engineering Controls</b>	No data available.
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#### Individual protection measures, such as personal protective equipment

<b>Eye/face protection:</b>	safety glasses
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#### Skin Protection

<b>Hand Protection:</b>	Additional Information: gloves made of chloroprene (CR, e.g. Neoprene), Polyvinyl Alcohol Gloves (PVA).
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<b>Skin and Body Protection:</b>	protective clothing
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**Respiratory Protection:** in case of formation of vapours/aerosols: Short term: filter apparatus, combination filter A-P2

## 9. Physical and chemical properties

### Appearance

<b>Physical state:</b>	liquid
<b>Form:</b>	liquid
<b>Color:</b>	Amber
<b>Odor:</b>	camphor-like
<b>Odor Threshold:</b>	not measured
<b>pH:</b>	7 (25 °C)
<b>Freezing point:</b>	not measured
<b>Boiling Point:</b>	151 °C (1,015 hPa) literature
<b>Flash Point:</b>	57 °C (Tag open cup)
<b>Evaporation Rate:</b>	not measured
<b>Flammability (solid, gas):</b>	not measured
<b>Explosive limit - upper:</b>	not measured
<b>Explosive limit - lower:</b>	not measured
<b>Vapor pressure:</b>	6 hPa (21 °C)
<b>Relative vapor density:</b>	not measured
<b>Density:</b>	0.8545 g/cm <sup>3</sup> (21 °C)
<b>Relative density:</b>	not measured
<b>Solubility in Water:</b>	not measured
<b>Solubility (other):</b>	not measured
<b>Partition coefficient (n-octanol/water):</b>	1.85 (QSAR)
<b>Self Ignition Temperature:</b>	354 °C (EC Method A.15)
<b>Decomposition Temperature:</b>	No data available.
<b>Kinematic viscosity:</b>	not measured
<b>Dynamic viscosity:</b>	not measured
<b>Other information</b>	
<b>Explosive properties:</b>	not measured
<b>Oxidizing properties:</b>	not oxidizing
<b>Minimum ignition temperature:</b>	not measured
<b>Metal Corrosion:</b>	Does not corrode metal.

## 10. Stability and reactivity

<b>Reactivity:</b>	see section "Possibility of hazardous reactions".
<b>Chemical Stability:</b>	The product is stable under normal conditions.
<b>Possibility of hazardous reactions:</b>	No hazardous reactions with proper storage and handling.
<b>Conditions to avoid:</b>	Open flames, sparks or input of much heat
<b>Incompatible Materials:</b>	Oxidizing agent

**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): > 300 mg/kg (TSCA 40 CFR Subpart B 798.1175)

##### Dermal

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

##### Inhalation

**Product:** LC 50 (Rat): > 20 mg/l Dusts, mists and fumes  
LC 50 (Rat): > 5 mg/l Dusts, mists and fumes

#### Repeated dose toxicity

**Product:** No data available.

#### Skin Corrosion/Irritation

**Product:** Irritating. CFR 16 1500.41 (Rabbit, 24 h): Irritating.; The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

#### Serious Eye Damage/Eye Irritation

**Product:** Irritating. Rabbit: Irritating. The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

#### Respiratory or Skin Sensitization

**Product:** Local Lymph Node Assay (LLNA), OECD 429 (Mouse): Not a skin sensitizer. Own study

#### 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:** Ames test (OECD 471): negative; Own study;  
Ames test (OECD 471): 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.

**12. Ecological information****Ecotoxicity:****Acute hazards to the aquatic environment:****Fish****Product:** No data available.**Aquatic Invertebrates****Product:** EC 50 (Daphnia magna, 48 h): > 100 mg/l Own study**Toxicity to Aquatic Plants****Product:** ErC50 (Algae (Pseudokirchneriella subcapitata), 72 h): 53 mg/l (OECD 201)  
Own study**Toxicity to microorganisms****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:** NOEC (Algae (*Pseudokirchneriella subcapitata*), 72 h): 5.7 mg/l (OECD 201)  
Own study

**Toxicity to microorganisms**

**Product:** No data available.

**Persistence and Degradability****Biodegradation**

**Product:** 97 % (11 d, OECD 301 D) Own study

**BOD/COD Ratio**

**Product:** No data available.

**Bioaccumulative potential**

**Product:** No data available.

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** Log Kow: 1.85 (QSAR)

**Mobility in soil:**

**Product** 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**

UN/ID/NA number : UN 1993  
Proper shipping name : Flammable liquids, n.o.s.  
(3,5-Dimethyl-1-hexyn-3-ol)  
Class : 3  
Packing group : III  
Labels : 3  
ERG Code : 128  
Marine pollutant : no

**International Regulations****IATA-DGR**

UN/ID No. : UN 1993  
Proper shipping name : Flammable liquid, n.o.s.  
(3,5-Dimethyl-1-hexyn-3-ol)  
Class : 3  
Packing group : III  
Labels : 3  
Packing instruction (cargo aircraft) : 366



Packing instruction : 355  
(passenger aircraft)  
Remarks : Maximum Net Quantity per Package 220 L

**IMDG-Code**

UN number : UN 1993  
Proper shipping name : FLAMMABLE LIQUID, N.O.S.  
(3,5-Dimethyl-1-hexyn-3-ol)  
Class : 3  
Packing group : III  
Labels : 3  
EmS Code : F-E, S-E  
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-

None present or none present in regulated quantities.

**CERCLA Hazardous Substance List (40 CFR 302.4):****Chemical Identity**

2-Pentanone, 4-methyl-

**Superfund Amendments and Reauthorization Act of 1986 (SARA)****Hazard categories**

Flammable (gases, aerosols, liquids, or solids), Acute toxicity (any route of exposure), Skin Corrosion or Irritation, Serious eye damage or eye irritation, Hazards Not Otherwise Classified (HNOC)

**US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances**

None present or none present in regulated quantities.

**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**



**WARNING:** This product can expose you to chemicals including, 2-Pentanone, 4-methyl-, which is [are] known to the State of California to cause cancer and birth defects or other reproductive harm.

For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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

No ingredient regulated by NJ Right-to-Know Law present.

**US. Massachusetts RTK - Substance List**

No ingredient regulated by MA Right-to-Know Law present.

**US. Pennsylvania RTK - Hazardous Substances**

No ingredient regulated by PA Right-to-Know Law present.

**US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

**Inventory Status:**

US TSCA Inventory:

Included on Inventory.

Commercial Status: Active

Canada DSL Inventory List:

Included on Inventory.

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

**HMIS Hazard ID**

<b>Health</b>	2
<b>Flammability</b>	2
<b>Physical Hazards</b>	0
<b>PERSONAL PROTECTION</b>	<b>E</b>

E - Safety Glasses, Gloves & Dust Respirator

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

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**Version #:** 1.1

**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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