

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Ethyl alcohol UK denaturation  
Revision date : 01.01.2023  
Print date : 12-04-2023

Version : 1.0.0

## SECTION 1: Identification of the substance/mixture and of the company/ undertaking

### 1.1 Product identifier

Ethyl alcohol UK denaturation (140016)

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Fuel for ethanol/gel fireplaces. Consumer uses: Private households (= general public = consumers)

#### Uses advised against

This product should not be used for purposes other than the applications referred to above.

### 1.3 Details of the supplier of the safety data sheet

#### Supplier

Sel Chemie BV

Street : Broekstraat 23

Postal code/City : 7122 MN Aalten

Telephone : +31 (0)543-471956

Telefax : +31 (0)543-476600

Information contact : Email: MSDS@selchemie.com

### 1.4 Emergency telephone number

Members of the public seeking specific information on poisons should contact: In England and Wales: NHS 111 - dial 111, in Scotland: NHS 24 - dial 111 Ireland +353 (0)1 8092566 or +353 (0)1 8379964 National Poisons Information Centre

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Flam. Liq. 2 ; H225 - Flammable liquids : Category 2 ; Highly flammable liquid and vapour.

Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation.

### 2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Flame (GHS02) · Exclamation mark (GHS07)

Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Ethyl alcohol UK denaturation  
Revision date : 01.01.2023  
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Version : 1.0.0

P403+P235 Store in a well-ventilated place. Keep cool.  
P501 Dispose of contents/container in accordance with local / national regulations.

## 2.3 Other hazards

This material can accumulate static charge by flow or agitation and can be ignited by static discharge. Vapours can travel considerable distances to a source of ignition where they can ignite, flash back, or explode.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

ETHANOL ; REACH No. : 01-2119457610-43 ; EC No. : 200-578-6; CAS No. : 64-17-5

Weight fraction :  $\geq 90 \%$

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319

PROPAN-2-OL ; REACH No. : 01-2119457558-25 ; EC No. : 200-661-7; CAS No. : 67-63-0

Weight fraction :  $\geq 2,5 - < 10 \%$

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319 STOT SE 3 ; H336

BUTANONE ; REACH No. : 01-2119457290-43 ; EC No. : 201-159-0; CAS No. : 78-93-3

Weight fraction :  $\geq 2,5 - < 10 \%$

Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Eye Irrit. 2 ; H319 STOT SE 3 ; H336

#### Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

When in doubt or if symptoms are observed, get medical advice. Observe risk of aspiration if vomiting occurs. If unconscious but breathing normally, place in recovery position and seek medical advice. If breathing is irregular or stopped, administer artificial respiration. Remove casualty to fresh air and keep warm and at rest.

#### Following inhalation

Remove casualty to fresh air and keep warm and at rest. In all cases of doubt, or when symptoms persist, seek medical attention.

#### In case of skin contact

Wash immediately with: Water In all cases of doubt, or when symptoms persist, seek medical attention. Change contaminated, saturated clothing. Wash contaminated clothing prior to re-use.

#### After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water. In all cases of doubt, or when symptoms persist, seek medical attention.

#### Following ingestion

Rinse mouth thoroughly with water. Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical attention.

### 4.2 Most important symptoms and effects, both acute and delayed

The following symptoms may occur: Headache Dizziness Nausea Diminished responsiveness Danger of irritation to eyes, nose, throat and the air passages. depression of central nervous system Cardiac arrhythmias Dizziness Vomiting Dilated pupils

### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Ethyl alcohol UK denaturation  
Revision date : 01.01.2023  
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## Suitable extinguishing media

Water mist alcohol resistant foam ABC-powder BC-powder Carbon dioxide (CO<sub>2</sub>)

## Unsuitable extinguishing media

Full water jet

## 5.2 Special hazards arising from the substance or mixture

### Hazardous combustion products

Carbon monoxide Carbon dioxide (CO<sub>2</sub>)

## 5.3 Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Be aware that gases can spread at ground level (heavier than air) and pay attention to the wind direction. Remove all sources of ignition. Use only antistatically equipped (spark-free) tools.

#### For non-emergency personnel

##### Protective equipment

Use personal protection equipment. Wear closed protection glasses. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

##### Emergency procedures

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

### 6.2 Environmental precautions

Make sure spills can be contained, e.g. in sump pallets or kerbed areas. Use foam on spills to minimise vapours. Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

### 6.3 Methods and material for containment and cleaning up

#### For cleaning up

Suitable material for taking up: Sand Kieselguhr Limestone powder Collect in closed and suitable containers for disposal. Delivery to an approved waste disposal company. The contaminated area should be cleaned up immediately with: Water

### 6.4 Reference to other sections

See protective measures under point 7 and 8.

## SECTION 7: Handling and storage



### 7.1 Precautions for safe handling

#### Protective measures

##### Measures to prevent fire

Use only antistatically equipped (spark-free) tools. Provide earthing of containers, equipment, pumps and ventilation facilities. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours are heavier than air, spread along floors and form explosive mixtures with air.

##### Measures to prevent aerosol and dust generation

During filling, metering and sampling should be used if possible: Closed devices

##### Environmental precautions

Do not empty into drains.

##### Specific requirements or handling rules

Remove contaminated, saturated clothing immediately.

### 7.2 Conditions for safe storage, including any incompatibilities

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Ethyl alcohol UK denaturation  
Revision date : 01.01.2023  
Print date : 12-04-2023

Version : 1.0.0

## Technical measures and storage conditions

Protect against direct sunlight. Keep container tightly closed in a cool, well-ventilated place. Ensure adequate ventilation of the storage area. Suitable container/equipment material: Stainless steel Aluminium Iron. Unsuitable container/equipment material:

## Hints on joint storage

Storage class (TRGS 510) : 3

Keep away from

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Oxidizing agent Strong acid

## 7.3 Specific end use(s)

Fuel for ethanol/gel fireplaces.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

ETHANOL ; CAS No. : 64-17-5

Limit value type (country of origin) : STEL ( A )

Limit value : 2000 ppm / 3800 mg/m<sup>3</sup>

Remark : 15 min GKV 2018

Version :

Limit value type (country of origin) : TWA ( A )

Limit value : 1000 ppm / 1900 mg/m<sup>3</sup>

Remark : 8h GKV 2018

Version :

Limit value type (country of origin) : GWBB ( B )

Limit value : 1000 ppm / 1907 mg/m<sup>3</sup>

Remark : 8h

Version :

Limit value type (country of origin) : VLEP ( B )

Limit value : 1000 ppm / 1907 mg/m<sup>3</sup>

Remark : 8h

Version :

Limit value type (country of origin) : STEL ( CH )

Limit value : 1000 ppm / 1920 mg/m<sup>3</sup>

Remark : 15 min SuvaPro Grenzw. am Arb.platz 2018

Version :

Limit value type (country of origin) : TWA ( CH )

Limit value : 500 ppm / 960 mg/m<sup>3</sup>

Remark : 8h SuvaPro Grenzwerte am Arb.platz 2018

Version :

Limit value type (country of origin) : STEL ( D )

Limit value : 800 ppm / 1520 mg/m<sup>3</sup>

Remark : 15min

Version :

Limit value type (country of origin) : TRGS 900 ( D )

Limit value : 200 ppm / 380 mg/m<sup>3</sup>

Peak limitation : 4(II)

Remark : Y 8h

Version : 01-09-2012

Limit value type (country of origin) : TGG 8 uren ( DK )

Limit value : 1000 ppm / 1900 mg/m<sup>3</sup>

Remark : BEK nr 698 af 28/05/2020

Version :

Limit value type (country of origin) : VLE ( F )

Limit value : 1000 ppm / 1900 mg/m<sup>3</sup>

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Ethyl alcohol UK denaturation  
Revision date : 01.01.2023  
Print date : 12-04-2023

Version : 1.0.0

---

Remark : VL 8h INRS ED 984  
Version :

Limit value type (country of origin) : VLEP ( F )  
Limit value : 5000 ppm / 9500 mg/m<sup>3</sup>  
Remark : VL 15min INRS ED 984  
Version :

Limit value type (country of origin) : WEL ( GB )  
Limit value : 1000 ppm / 1920 mg/m<sup>3</sup>  
Remark : 8h EH40/2005 (Third edition, publ. 2018)  
Version :

Limit value type (country of origin) : Exposure Limit (8h) ( NL )  
Limit value : 136 ppm / 260 mg/m<sup>3</sup>  
Remark : H  
Version : 01-10-2008

Limit value type (country of origin) : Exposure Limit (15min) ( NL )  
Limit value : 992 ppm / 1900 mg/m<sup>3</sup>  
Remark : H  
Version : 01-10-2008

PROPAN-2-OL ; CAS No. : 67-63-0

Limit value type (country of origin) : STEL ( A )  
Limit value : 800 ppm / 2000 mg/m<sup>3</sup>  
Remark : 15 min  
Version :

Limit value type (country of origin) : TWA ( A )  
Limit value : 200 ppm / 500 mg/m<sup>3</sup>  
Remark : 8h  
Version :

Limit value type (country of origin) : STEL ( CH )  
Limit value : 400 ppm / 1000 mg/m<sup>3</sup>  
Remark : 15 min  
Version :

Limit value type (country of origin) : TWA ( CH )  
Limit value : 200 ppm / 500 mg/m<sup>3</sup>  
Remark : 8h  
Version :

Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 200 ppm / 500 mg/m<sup>3</sup>  
Peak limitation : 2(II)  
Remark : Y 8h  
Version : 02-07-2009

Limit value type (country of origin) : TGG 8 uren ( DK )  
Limit value : 200 ppm / 490 mg/m<sup>3</sup>  
Remark : 8h  
Version :

Limit value type (country of origin) : VLEP ( F )  
Limit value : 400 ppm / 980 mg/m<sup>3</sup>  
Remark : 15min  
Version :

Limit value type (country of origin) : STEL ( GB )  
Limit value : 500 ppm / 1250 mg/m<sup>3</sup>  
Remark : 15 min  
Version :

Limit value type (country of origin) : TWA ( GB )  
Limit value : 400 ppm / 999 mg/m<sup>3</sup>  
Remark : 8h

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Ethyl alcohol UK denaturation  
Revision date : 01.01.2023  
Print date : 12-04-2023

Version : 1.0.0

Version :  
BUTANONE ; CAS No. : 78-93-3  
Limit value type (country of origin) : STEL ( A )  
Limit value : 200 ppm / 590 mg/m<sup>3</sup>  
Remark : 30min GKV 2018  
Version :  
Limit value type (country of origin) : TWA ( A )  
Limit value : 100 ppm / 295 mg/m<sup>3</sup>  
Remark : 8h GKV 2018  
Version :  
Limit value type (country of origin) : GWBB ( B )  
Limit value : 300 ppm / 900 mg/m<sup>3</sup>  
Remark : 15min  
Version :  
Limit value type (country of origin) : GWBB ( B )  
Limit value : 200 ppm / 600 mg/m<sup>3</sup>  
Remark : 8h  
Version :  
Limit value type (country of origin) : VLEP ( B )  
Limit value : 300 ppm / 900 mg/m<sup>3</sup>  
Remark : 15min  
Version :  
Limit value type (country of origin) : VLEP ( B )  
Limit value : 200 ppm / 600 mg/m<sup>3</sup>  
Remark : 8h  
Version :  
Limit value type (country of origin) : TRGS 900 ( D )  
Limit value : 200 ppm / 600 mg/m<sup>3</sup>  
Peak limitation : 1(I)  
Remark : H, Y  
Version : 02-07-2009  
Limit value type (country of origin) : TGG 8 uren ( DK )  
Limit value : 50 ppm / 145 mg/m<sup>3</sup>  
Remark : H BEK nr. 1458 af 13/12/2019  
Version :  
Limit value type (country of origin) : STEL ( EC )  
Limit value : 300 ppm / 900 mg/m<sup>3</sup>  
Remark : 15min  
Version : 08-06-2000  
Limit value type (country of origin) : TWA ( EC )  
Limit value : 200 ppm / 600 mg/m<sup>3</sup>  
Remark : 8h  
Version : 08-06-2000  
Limit value type (country of origin) : VLE ( F )  
Limit value : 300 ppm / 900 mg/m<sup>3</sup>  
Remark : 15min H  
Version :  
Limit value type (country of origin) : VLEP ( F )  
Limit value : 200 ppm / 600 mg/m<sup>3</sup>  
Remark : 8h H  
Version :  
Limit value type (country of origin) : STEL ( GB )  
Limit value : 300 ppm / 899 mg/m<sup>3</sup>  
Remark : 15min  
Version :

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



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Print date : 12-04-2023

Version : 1.0.0

Limit value type (country of origin) : TWA ( GB )  
Limit value : 200 ppm / 600 mg/m<sup>3</sup>  
Remark : 8h  
Version :  
Limit value type (country of origin) : Exposure Limit (8h) ( NL )  
Limit value : 197 ppm / 590 mg/m<sup>3</sup>  
Remark : H  
Version :  
Limit value type (country of origin) : Exposure Limit (15min) ( NL )  
Limit value : 300 ppm / 900 mg/m<sup>3</sup>  
Remark : H  
Version :

## Biological limit values

PROPAN-2-OL ; CAS No. : 67-63-0

Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : Acetone / Whole blood (B) / End of exposure or end of shift  
Limit value : 25 mg/l  
Version : 31-03-2004

Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : Acetone / Urine (U) / End of exposure or end of shift  
Limit value : 25 mg/l  
Version : 31-03-2004

## DNEL-/PNEC-values

DNEL/DMEL

ETHANOL ; CAS No. : 64-17-5

Limit value type : DNEL Consumer (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 114 mg/m<sup>3</sup>  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 206 Mg/kg bw/day  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Oral  
Exposure frequency : Long-term  
Limit value : 87 Mg/kg bw/day  
Limit value type : DNEL worker (local)  
Exposure route : Inhalation  
Exposure frequency : Short-term  
Limit value : 1900 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 950 mg/m<sup>3</sup>  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 343 Mg/kg bw/day

PROPAN-2-OL ; CAS No. : 67-63-0

Limit value type : DNEL Consumer (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 319 Mg/kg bw/day

BUTANONE ; CAS No. : 78-93-3

Limit value type : DNEL Consumer (systemic)

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Ethyl alcohol UK denaturation  
Revision date : 01.01.2023  
Print date : 12-04-2023

Version : 1.0.0

---

Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 106 mg/m<sup>3</sup>  
PROPAN-2-OL ; CAS No. : 67-63-0  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 89 mg/m<sup>3</sup>  
BUTANONE ; CAS No. : 78-93-3  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 412 Mg/kg bw/day  
PROPAN-2-OL ; CAS No. : 67-63-0  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Oral  
Exposure frequency : Long-term  
Limit value : 26 Mg/kg bw/day  
BUTANONE ; CAS No. : 78-93-3  
Limit value type : DNEL Consumer (systemic)  
Exposure route : Oral  
Exposure frequency : Long-term  
Limit value : 31 Mg/kg bw/day  
PROPAN-2-OL ; CAS No. : 67-63-0  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 888 Mg/kg bw/day  
BUTANONE ; CAS No. : 78-93-3  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 600 mg/m<sup>3</sup>  
PROPAN-2-OL ; CAS No. : 67-63-0  
Limit value type : DNEL worker (systemic)  
Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 500 mg/m<sup>3</sup>  
BUTANONE ; CAS No. : 78-93-3  
Limit value type : DNEL worker (systemic)  
Exposure route : Dermal  
Exposure frequency : Long-term  
Limit value : 1161 Mg/kg bw/day  
PNEC  
ETHANOL ; CAS No. : 64-17-5  
Limit value type : PNEC (Aquatic, freshwater)  
Exposure route : Water  
Limit value : 0,96 mg/l  
Limit value type : PNEC (Aquatic, intermittent release)  
Exposure route : Water  
Limit value : 2,75 mg/l  
Limit value type : PNEC (Aquatic, marine water)  
Exposure route : Water  
Limit value : 0,79 mg/l  
Limit value type : PNEC (Sediment, freshwater)  
Exposure route : Sediment  
Limit value : 3,6 mg/kg



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Ethyl alcohol UK denaturation  
Revision date : 01.01.2023  
Print date : 12-04-2023

Version : 1.0.0

---

Limit value type : PNEC (Sediment, marine water)  
Exposure route : Sediment  
Limit value : 2,9 mg/kg  
Limit value type : PNEC Soil, Freshwater  
Exposure route : Soil  
Limit value : 0,63 mg/kg  
Limit value type : PNEC (Sewage treatment plant)  
Exposure route : Water (Including sewage plant)  
Limit value : 580 mg/l  
PROPAN-2-OL ; CAS No. : 67-63-0  
Limit value type : PNEC (Aquatic, freshwater)  
Exposure route : Water  
Limit value : 140,9 mg/l  
BUTANONE ; CAS No. : 78-93-3  
Limit value type : PNEC (Aquatic, freshwater)  
Exposure route : Water  
Limit value : 55,8 mg/l  
Limit value type : PNEC (Aquatic, intermittent release)  
Exposure route : Water  
Limit value : 55,8 mg/l  
PROPAN-2-OL ; CAS No. : 67-63-0  
Limit value type : PNEC (Aquatic, intermittent release)  
Exposure route : Water  
Limit value : 140,9 mg/l  
BUTANONE ; CAS No. : 78-93-3  
Limit value type : PNEC (Aquatic, marine water)  
Exposure route : Water  
Limit value : 55,8 mg/l  
PROPAN-2-OL ; CAS No. : 67-63-0  
Limit value type : PNEC (Aquatic, marine water)  
Exposure route : Water  
Limit value : 140,9 mg/l  
BUTANONE ; CAS No. : 78-93-3  
Limit value type : PNEC (Sediment, freshwater)  
Exposure route : Sediment  
Limit value : 284,74 mg/kg  
PROPAN-2-OL ; CAS No. : 67-63-0  
Limit value type : PNEC (Sediment, freshwater)  
Exposure route : Sediment  
Limit value : 552 mg/kg  
BUTANONE ; CAS No. : 78-93-3  
Limit value type : PNEC (Sediment, marine water)  
Exposure route : Sediment  
Limit value : 284,7 mg/kg  
PROPAN-2-OL ; CAS No. : 67-63-0  
Limit value type : PNEC (Sediment, marine water)  
Exposure route : Sediment  
Limit value : 552 mg/kg  
BUTANONE ; CAS No. : 78-93-3  
Limit value type : PNEC Soil, Freshwater  
Exposure route : Soil  
Limit value : 22,5 mg/kg  
PROPAN-2-OL ; CAS No. : 67-63-0  
Limit value type : PNEC Soil, Freshwater  
Exposure route : Soil  
Limit value : 28 mg/kg  
Limit value type : PNEC (Secondary poisoning)

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Ethyl alcohol UK denaturation  
Revision date : 01.01.2023  
Print date : 12-04-2023

Version : 1.0.0

Exposure route : Oral  
Limit value : 160 mg/kg  
BUTANONE ; CAS No. : 78-93-3  
Limit value type : PNEC (Sewage treatment plant)  
Exposure route : Water purification  
Limit value : 709 mg/l  
PROPAN-2-OL ; CAS No. : 67-63-0  
Limit value type : PNEC (Sewage treatment plant)  
Exposure route : Water (Including sewage plant)  
Limit value : 2251 mg/l

## 8.2 Exposure controls

### Appropriate engineering controls

Use only in well-ventilated areas. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc. Provide earthing of containers, equipment, pumps and ventilation facilities. Use only antistatically equipped (spark-free) tools. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

### Personal protection equipment



### Eye/face protection



Suitable eye protection  
Eye glasses with side protection

### Skin protection

Hand protection



Suitable gloves type : The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Suitable material : Butyl caoutchouc (butyl rubber) Tetrafluoroethylene

Unsuitable material : NR (natural rubber, natural latex) PVA (Polyvinyl alcohol) PVC (polyvinyl chloride)

Required properties : liquid-tight.

Remark : DIN-/EN-Norms EN 420 EN ISO 374

### Body protection

Protective clothing is not necessary for normal use.

Remark : Immediately remove any contaminated clothing, shoes or stockings. Wash contaminated clothing prior to re-use.

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Trade name : Ethyl alcohol UK denaturation  
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## Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.  
Suitable respiratory protection apparatus Full-/half-/quarter-face masks (EN 136/140) Filtering device (full mask or mouthpiece) with filter: A

## General information

Wash hands before breaks and after work.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : Liquid

Colour : colourless

Odour : Alcohol

#### Safety characteristics

Freezing point :		-75	°C	
Density :	( 15 °C )	0,75 - 0,85	g/cm <sup>3</sup>	
Water solubility :	( 20 °C )	100	Weight-%	
pH :		6 - 9		
Relative vapour density :	( 20 °C )	> 1	(air = 1)	
Melting point/freezing point : (ETHANOL)		-114	°C	
Initial boiling point and boiling range : (ETHANOL)	( 1013 hPa )	78,2	°C	
Flash point : (ETHANOL)		13	°C	
Auto-ignition temperature : (ETHANOL)		363 - 425	°C	
Vapour pressure : (ETHANOL)	( 20 °C )	57,3	hPa	Calculated
log P O/W : (ETHANOL)		-0,35		Estimated
Cinematic viscosity : (ETHANOL)	( 20 °C )	1,2	mm <sup>2</sup> /s	Calculated
Decomposition temperature :	No data available(test not performed)			
Lower explosion limit :	No data available(test not performed)			
Upper explosion limit :	No data available(test not performed)			
Vapour pressure :	No data available(test not performed)			
Odour threshold :	No data available(test not performed)			
Particle characteristics	not applicable			
Oxidising liquids :	Not oxidising.			
Explosive properties :	Not applicable.			

### 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Be aware that gases can spread at ground level (heavier than air) and pay attention to the wind direction. This material is combustible and can be ignited by heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/electrical equipment).

### 10.2 Chemical stability

Stable under normal conditions of use

### 10.3 Possibility of hazardous reactions

Violent reaction with: Oxidising agent, strong. Strong acid

# Safety Data Sheet

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Trade name : Ethyl alcohol UK denaturation  
Revision date : 01.01.2023  
Print date : 12-04-2023

Version : 1.0.0

## 10.4 Conditions to avoid

This material is combustible and can be ignited by heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/electrical equipment). Keep away from sources of ignition - No smoking. Use only antistatically equipped (spark-free) tools.

## 10.5 Incompatible materials

Violent reaction with: Oxidizing agent. Strong acid

## 10.6 Hazardous decomposition products

Carbon monoxide Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

##### Acute oral toxicity

Parameter :	LD50 ( ETHANOL ; CAS No. : 64-17-5 )
Exposure route :	Oral
Species :	Rat
Effective dose :	10470 mg/kg bw
Method :	OECD 401
Parameter :	LD50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Exposure route :	Oral
Species :	Rat
Effective dose :	5840 mg/kg
Result :	Minimally Toxic.
Method :	OECD 401
Parameter :	LD50 ( BUTANONE ; CAS No. : 78-93-3 )
Exposure route :	Oral
Species :	Rat
Effective dose :	2193 mg/kg bw
Method :	OECD 423

##### Acute dermal toxicity

Parameter :	LD50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	13900 mg/kg
Result :	Minimally Toxic.
Method :	OECD 402
Parameter :	LD50 ( BUTANONE ; CAS No. : 78-93-3 )
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 8100 Mg/kg bw/day
Exposure time :	24 h
Method :	OECD 402

##### Acute inhalation toxicity

Parameter :	LC50 ( ETHANOL ; CAS No. : 64-17-5 )
Exposure route :	Inhalation
Species :	Rat
Effective dose :	124,7 mg/l
Exposure time :	4 h
Method :	OECD 403
Parameter :	LC50 ( BUTANONE ; CAS No. : 78-93-3 )
Exposure route :	Inhalation
Species :	Rat
Effective dose :	> 20 mg/l
Exposure time :	4 h
Parameter :	LC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Ethyl alcohol UK denaturation  
Revision date : 01.01.2023  
Print date : 12-04-2023

Version : 1.0.0

Exposure route : Inhalation  
Species : Rat  
Effective dose : > 25000 mg/m<sup>3</sup>  
Exposure time : 6 h  
Result : Minimally Toxic.  
Method : OECD 403

## Corrosion

### Skin corrosion/irritation

Parameter : Skin corrosion/irritation ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Rabbit  
Exposure time : 24 h  
Result : Non-irritant  
Method : OECD 404

Parameter : Skin corrosion/irritation ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Species : Rabbit  
Exposure time : 4 h  
Result : Non-irritant

Parameter : Skin corrosion/irritation ( BUTANONE ; CAS No. : 78-93-3 )  
Species : Rabbit  
Exposure time : 4 h  
Result : Non-irritant  
Method : OECD 404

Result : non-irritant.

### Serious eye damage/eye irritation

Parameter : Serious eye damage/eye irritation ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Rabbit  
Exposure time : 14 day  
Result : Irritant  
Method : OECD 405

Parameter : Serious eye damage/eye irritation ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Species : Rabbit  
Exposure time : 24 h  
Result : Irritant  
Method : OECD 405

Parameter : Serious eye damage/eye irritation ( BUTANONE ; CAS No. : 78-93-3 )  
Species : Rabbit  
Exposure time : 24 h  
Result : Irritant  
Method : OECD 405

Result : Causes serious eye irritation.

## Respiratory or skin sensitisation

### Skin sensitisation

Parameter : Skin sensitisation ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Mouse  
Result : Not sensitising.  
Method : OECD 429

Parameter : Skin sensitisation ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Species : Guinea pig  
Result : Not sensitising.  
Method : OECD 406

Parameter : Skin sensitisation ( BUTANONE ; CAS No. : 78-93-3 )  
Species : Guinea pig  
Result : Not sensitising.  
Method : OECD 406

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Ethyl alcohol UK denaturation  
Revision date : 01.01.2023  
Print date : 12-04-2023

Version : 1.0.0

## Sensitisation to the respiratory tract

Parameter : Sensitisation to the respiratory tract ( ETHANOL ; CAS No. : 64-17-5 )  
Result : Not sensitising.

## Repeated dose toxicity (subacute, subchronic, chronic)

### Subacute oral toxicity

Parameter : LOAEL(C) ( ETHANOL ; CAS No. : 64-17-5 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 3160 mg/kg  
Exposure time : 98 day  
Method : OECD 408

### Subacute inhalation toxicity

Parameter : LOAEC ( ETHANOL ; CAS No. : 64-17-5 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 1,3 mg/l  
Exposure time : 12 month(s)

### Additional information

Specific effects: Frequently or prolonged contact with skin may cause dermal irritation. Gastrointestinal complaints  
Causes damage to liver through prolonged or repeated exposure if swallowed. May cause damage to heart through  
prolonged or repeated exposure if swallowed. Ingestion causes nausea, weakness and central nervous system  
effects.

## CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

### Carcinogenicity

Parameter : NOAEL(C) ( ETHANOL ; CAS No. : 64-17-5 )  
Exposure route : Oral  
Species : Rat  
Effective dose : > 3000 Mg/kg bw/day  
Exposure time : 728 day  
Result : Negative.  
Method : OECD 451

Parameter : NOAEC ( ETHANOL ; CAS No. : 64-17-5 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : >= 1,3 ppm  
Exposure time : 24 month(s)  
Result : Negative.  
Method : OECD 453

Parameter : NOEL(C) ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 5000 ppm  
Exposure time : 728 day  
Result : Negative.  
Method : OECD 451

### Assessment/classification

This substance does not meet the criteria for classification as CMR category 1A or 1B according to CLP.

### Germ cell mutagenicity

#### In vitro mutagenicity

Parameter : Gene-mutations mammalian cells ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Mouse lymphoma cells  
Result : Negative.  
Method : OECD 476

Parameter : Gene-mutations microorganisms ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : In vitro mutagenicity  
Species : Salmonella typhimurium

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Ethyl alcohol UK denaturation  
Revision date : 01.01.2023  
Print date : 12-04-2023

Version : 1.0.0

Result : Negative.  
Method : OECD 471 (Ames test)  
Parameter : Gene-mutations microorganisms ( BUTANONE ; CAS No. : 78-93-3 )  
Result : Negative.  
Method : OECD 471 (Ames test)

#### In vivo mutagenicity

Parameter : Chromosomal aberrations ( ETHANOL ; CAS No. : 64-17-5 )  
Exposure route : Oral  
Species : Mouse  
Exposure time : 5 day  
Result : Negative.  
Method : OECD 478  
Parameter : In vivo mutagenicity ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Species : Mouse  
Result : Negative.  
Method : OECD 474  
Parameter : In vivo mutagenicity ( BUTANONE ; CAS No. : 78-93-3 )  
Species : Mouse  
Result : Negative.  
Method : OECD 474

#### Assessment/classification

This substance does not meet the criteria for classification as CMR category 1A or 1B according to CLP.

#### Reproductive toxicity

##### Adverse effects on sexual function and fertility

Parameter : NOAEL(C) ( ETHANOL ; CAS No. : 64-17-5 )  
Exposure route : Oral  
Species : Mouse  
Effective dose : 20700 mg/kg  
Exposure time : 126 day  
Result : Negative.  
Method : OECD 416  
Parameter : NOAEL(C) ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 853 Mg/kg bw/day  
Exposure time : 21 day  
Result : Negative.  
Method : OECD 415  
Parameter : NOAEL(C) ( BUTANONE ; CAS No. : 78-93-3 )  
Species : Rat  
Effective dose : 1644 - 1771 Mg/kg bw/day  
Result : Negative.  
Method : OECD 416

##### Adverse effects on developmental toxicity

Parameter : NOAEL(C) ( ETHANOL ; CAS No. : 64-17-5 )  
Exposure route : Inhalation  
Species : Rat  
Effective dose : >= 20000 ppm  
Exposure time : 20 day  
Result : Negative.  
Method : OECD 414  
Parameter : NOAEL(C) ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Oral  
Species : Rat  
Effective dose : 400 Mg/kg bw/day  
Exposure time : 10 day  
Result : Negative.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Ethyl alcohol UK denaturation  
Revision date : 01.01.2023  
Print date : 12-04-2023

Version : 1.0.0

Method : OECD 414  
Parameter : NOAEC(C) ( BUTANONE ; CAS No. : 78-93-3 )  
Species : Rat  
Effective dose : 1002 ppm  
Exposure time : 10 day  
Result : Negative.  
Method : OECD 414

#### Assessment/classification

This substance does not meet the criteria for classification as CMR category 1A or 1B according to CLP.

#### STOT-repeated exposure

##### STOT RE 1 and 2

Parameter : STOT RE 1 and 2 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Exposure route : Rat  
Effective dose : 5000 ppm  
Exposure time : 728 day  
Result : Negative.  
Parameter : STOT RE 1 and 2 ( BUTANONE ; CAS No. : 78-93-3 )  
Exposure route : Rat  
Effective dose : 5041 ppm  
Exposure time : 65 day  
Result : Negative.

#### 11.2 Information on other hazards

No information available.

## SECTION 12: Ecological information

### 12.1 Toxicity

The substance/mixture does not fulfill the criteria of the acute aquatic toxicity according to Regulation (EC) No 1272/2008 [CLP], Annex I.

#### Aquatic toxicity

##### Acute (short-term) fish toxicity

Parameter : LC50 ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Pimephales promelas (fathead minnow)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 15300 mg/l  
Exposure time : 96 h  
Parameter : LC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Species : Pimephales promelas (fathead minnow)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 9640 - 10000 mg/l  
Exposure time : 96 h  
Method : OECD 203  
Parameter : LC50 ( BUTANONE ; CAS No. : 78-93-3 )  
Species : Pimephales promelas (fathead minnow)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 2993 mg/l  
Exposure time : 96 h  
Method : OECD 203

##### Chronic (long-term) fish toxicity

Parameter : ChV ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Fish  
Evaluation parameter : Chronic (long-term) fish toxicity  
Effective dose : 245 mg/l  
Exposure time : 30 day



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Ethyl alcohol UK denaturation  
Revision date : 01.01.2023  
Print date : 12-04-2023

Version : 1.0.0

## Acute (short-term) toxicity to crustacea

Parameter : LC50 ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Ceriodaphnia dubia  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 5012 mg/l  
Exposure time : 48 h  
Parameter : EC50 ( BUTANONE ; CAS No. : 78-93-3 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 308 mg/l  
Exposure time : 48 h  
Method : OECD 202  
Parameter : LC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : > 10000 mg/l  
Exposure time : 24 h  
Method : OECD 202

## Chronic (long-term) toxicity to aquatic invertebrate

Parameter : NOEC ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : 9,6 mg/l  
Exposure time : 9 day  
Parameter : NOEC ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Chronic (long-term) daphnia toxicity  
Effective dose : 2344 µmol/l  
Exposure time : 16 day

## Acute (short-term) toxicity to algae and cyanobacteria

Parameter : ErC50 ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Chlorella vulgaris  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 275 mg/l  
Exposure time : 3 day  
Parameter : ErC50 ( BUTANONE ; CAS No. : 78-93-3 )  
Species : Pseudokirchneriella subcapitata  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 1972 mg/l  
Exposure time : 72 h  
Method : OECD 201  
Parameter : LOEC ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Species : Algae  
Evaluation parameter : Acute (short-term) algae toxicity  
Effective dose : 1000 mg/l  
Exposure time : 8 day

## Toxicity to microorganisms

Parameter : EC50 ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Paramecium caudatum  
Effective dose : 5800 mg/l  
Exposure time : 4 h  
Parameter : Bacteria toxicity ( BUTANONE ; CAS No. : 78-93-3 )  
Species : Pseudomonas putida  
Effective dose : 1150 mg/l  
Exposure time : 16 h  
Parameter : Bacteria toxicity ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Species : Pseudomonas putida

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Ethyl alcohol UK denaturation  
Revision date : 01.01.2023  
Print date : 12-04-2023

Version : 1.0.0

Effective dose : 1050 mg/l  
Exposure time : 16 h  
Parameter : EC50 ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Species : Bacteria toxicity  
Effective dose : 41676 mg/l  
Exposure time : 30 min

## 12.2 Persistence and degradability

### Abiotic degradation

Parameter : Photo-chemical elimination ( ETHANOL ; CAS No. : 64-17-5 )  
Species : Photo-chemical elimination  
Degradation rate : 500000 cm<sup>3</sup>  
Test duration : 40 h  
Parameter : Photo-chemical elimination ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Species : Photo-chemical elimination  
Degradation rate : 1500000 cm<sup>3</sup>  
Test duration : 17,6 h

### Biodegradation

Parameter : Biodegradation ( ETHANOL ; CAS No. : 64-17-5 )  
Inoculum : Degree of elimination  
Degradation rate : 84 %  
Test duration : 20 day  
Evaluation : Biodegradable.  
Parameter : Biodegradation ( BUTANONE ; CAS No. : 78-93-3 )  
Inoculum : Degree of elimination  
Degradation rate : 98 %  
Test duration : 28 day  
Method : OECD 301D  
Parameter : Biodegradation ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Inoculum : Degree of elimination  
Degradation rate : 53 %  
Test duration : 5 day  
Evaluation : Biodegradable.  
Parameter : Biodegradation ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Inoculum : Degree of elimination  
Degradation rate : 95 %  
Test duration : 21 day  
Method : OECD 301E

Biodegradable.

## 12.3 Bioaccumulative potential

Parameter : Bioconcentration factor (BCF) ( ETHANOL ; CAS No. : 64-17-5 )  
Cyprinus carpio (Common Carp)  
Value : 1 - 4,5  
72 h  
Parameter : Bioconcentration factor (BCF) ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Value : 3  
Parameter : Partition coefficient n-octanol /water (log P O/W) ( ETHANOL ; CAS No. : 64-17-5 )  
Value : -0,35  
Parameter : Partition coefficient n-octanol /water (log P O/W) ( PROPAN-2-OL ; CAS No. : 67-63-0 )  
Value : 0,05  
Parameter : Partition coefficient n-octanol/water (log value) ( BUTANONE ; CAS No. : 78-93-3 )  
Value : 0,3

### Assessment/classification

No indication of bioaccumulation potential.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Ethyl alcohol UK denaturation  
Revision date : 01.01.2023  
Print date : 12-04-2023

Version : 1.0.0

## 12.4 Mobility in soil

### Adsorption

Parameter :	Soil ( ETHANOL ; CAS No. : 64-17-5 )
Effective dose :	13,7 %
Parameter :	Water ( ETHANOL ; CAS No. : 64-17-5 )
Effective dose :	33,1 %
Parameter :	Air ( ETHANOL ; CAS No. : 64-17-5 )
Effective dose :	53,2 %
Parameter :	Sediment ( ETHANOL ; CAS No. : 64-17-5 )
Effective dose :	0,1 %
Parameter :	Log KOW ( PROPAN-2-OL ; CAS No. : 67-63-0 )
Effective dose :	0,18505
Parameter :	Log KOW ( BUTANONE ; CAS No. : 78-93-3 )
Effective dose :	0,654 - 1,281

### Assessment/classification

If product enters soil, it will be mobile and may contaminate groundwater.

## 12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## 12.6 Endocrine disrupting properties

There is no evidence of endocrine disrupting properties.

## 12.7 Other adverse effects

Contains the following fluorinated greenhouse gas (chemical name): None  
Contains the following substances that deplete the ozone layer: None  
If product enters soil, it will be mobile and may contaminate groundwater.

## 12.8 Additional ecotoxicological information

No information available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Delivery to an approved waste disposal company.  
Handle contaminated packages in the same way as the substance itself. Do not allow to enter into surface water or drains.

#### Directive 2008/98/EC (Waste Framework Directive)

Before intended use

Waste codes/waste designations according to EWC/AVV

Waste code : 15 01 02\* plastic packaging

Waste code : 15 01 10\* packaging containing residues of or contaminated by dangerous substances

Waste code : 13 07 03\* other fuels (including mixtures)

After intended use

Waste codes/waste designations according to EWC/AVV

Waste code : 15 01 02\* plastic packaging

Waste code : 15 01 10\* packaging containing residues of or contaminated by dangerous substances

Waste code : 13 07 03\* other fuels (including mixtures)

## SECTION 14: Transport information

### 14.1 UN number

UN 1993

### 14.2 UN proper shipping name

Land transport (ADR/RID)

FLAMMABLE LIQUID, N.O.S. ( ETHANOL · METHYL ETHYL KETONE )

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Ethyl alcohol UK denaturation  
Revision date : 01.01.2023  
Print date : 12-04-2023

Version : 1.0.0

Sea transport (IMDG)  
FLAMMABLE LIQUID, N.O.S. ( ETHANOL · METHYL ETHYL KETONE )  
Air transport (ICAO-TI / IATA-DGR)  
FLAMMABLE LIQUID, N.O.S. ( ETHANOL · METHYL ETHYL KETONE )

## 14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 3  
Classification code : F1  
Hazard identification number (Kemler No.) : 33  
Tunnel restriction code : D/E  
Special provisions : 640D · LQ 1 I · E 2  
Hazard label(s) : 3

Sea transport (IMDG)

Class(es) : 3  
EmS-No. : F-E / S-E  
Special provisions : LQ 1 I · E 2  
Hazard label(s) : 3

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 3  
Special provisions : E 2  
Hazard label(s) : 3

## 14.4 Packing group

II

## 14.5 Environmental hazards

Land transport (ADR/RID) : No  
Sea transport (IMDG) : No  
Air transport (ICAO-TI / IATA-DGR) : No

## 14.6 Special precautions for user

None

## 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Authorisations and/or restrictions on use

Restrictions on use

Regulation (EC) No. 1907/2006 (REACH), Annex XVII (restrictions)

Use restriction according to REACH annex XVII, no. : 3

Other regulations (EU)

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]

This mixture is a VOC according to 2010/75/EC.

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds

This mixture is a VOC according to 2004/42/EC.

National regulations

Water hazard class

Classification according to AwSV - Class : 1 (Slightly hazardous to water)

slightly hazardous to water Classification according to VwVwS, Annex 4.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Ethyl alcohol UK denaturation  
Revision date : 01.01.2023  
Print date : 12-04-2023

Version : 1.0.0

## Additional information

ICPE code: 4331

## 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture.

## SECTION 16: Other information

### 16.1 Indication of changes

MSDS according to Regulation EU 2020/878.

### 16.2 Abbreviations and acronyms

a.i. = Active ingredient  
ACGIH = American Conference of Governmental Industrial Hygienists (US)  
ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road  
AFFF = Aqueous Film Forming Foam  
AISE = International Association for Soaps, Detergents and Maintenance Products (joint project of AISE and CEFIC)  
AOAC = AOAC International (formerly Association of Official Analytical Chemists)  
aq. = Aqueous  
ASTM = American Society of Testing and Materials (US)  
atm = Atmosphere(s)  
B.V. = Beperkt Vennootschap (Limited)  
BCF = Bioconcentration Factor  
bp = Boiling point at stated pressure  
bw = Body weight  
ca = (Circa) about  
CAS No = Chemical Abstracts Service Number (see ACS - American Chemical Society)  
CEFIC = European Chemical Industry Council (established 1972)  
CIPAC = Collaborative International Pesticides Analytical Council  
CLP = REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.  
Conc = Concentration  
cP = CentiPoise  
cSt = Centistokes  
d = Day(s)  
DIN = Deutsches Institut für Normung e.V.  
DNEL = Derived No-Effect Level  
DT50 = Time for 50% loss; half-life  
EbC50 = Median effective concentration (biomass, e.g. of algae)  
EC = European Community; European Commission  
EC50 = Median effective concentration  
EINECS = European Inventory of Existing Commercial Chemical Substances (EU, outdated, now replaced by EC Number)  
ELINCS = European List of Notified (New) Chemicals (see Tab 7, Background - Guide)  
ErC50 = Median effective concentration (growth rate, e.g. of algae)  
EU = European Union  
EWC = European Waste Catalogue  
FAO = Food and Agriculture Organization (United Nations)  
GIFAP = Groupement International des Associations Nationales de Fabricants de Produits Agrochimiques (now CropLife International)  
h = Hour(s)  
hPa = HectoPascal (unit of pressure)  
IARC = International Agency for Research on Cancer  
IATA = International Air Transport Association  
IC50 = Concentration that produces 50% inhibition  
IMDG Code = International Maritime Dangerous Goods Code  
IMO = International Maritime Organization  
ISO = International Organization for Standardization  
IUCLID = International Uniform Chemical Information Database  
IUPAC = International Union of Pure and Applied Chemistry  
kg = Kilogram  
Kow = Distribution coefficient between n-octanol and water  
kPa = KiloPascal (unit of pressure)  
LC50 = Concentration required to kill 50% of test organisms

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Ethyl alcohol UK denaturation  
Revision date : 01.01.2023  
Print date : 12-04-2023

Version : 1.0.0

LD50 = Dose required to kill 50% of test organisms  
LEL = Lower Explosive Limit/Lower Explosion Limit  
LOAEL = Lowest observed adverse effect level  
mg = Milligram  
min = Minute(s)  
ml = Milliliter  
mmHg = Pressure equivalent to 1 mm of mercury (133.3 Pa)  
mp = Melting point  
MRL = Maximum Residue Limit  
MSDS = Material Safety Data Sheet  
n.o.s. = Not Otherwise Specified  
NIOSH = National Institute for Occupational Safety and Health (US)  
NOAEL = No Observed Adverse Effect Level  
NOEC = No observed effect concentration  
NOEL = No Observable Effect Level  
NOx = Oxides of Nitrogen  
OECD = Organization for Economic Cooperation and Development  
OEL = Occupational Exposure Limits  
Pa = Pascal (unit of pressure)  
PBT = Persistent, Bioaccumulative or Toxic  
pH = -log<sub>10</sub> hydrogen ion concentration  
pKa = -log<sub>10</sub> acid dissociation constant  
PNEC = Previsible Non Effect Concentration  
POPs = Persistent Organic Pollutants  
ppb = Parts per billion  
PPE = Personal Protection Equipment  
ppm = Parts per million  
ppt = Parts per trillion  
PVC = Polyvinyl Chloride  
QSAR = Quantitative Structure-Activity Relationship  
REACH = Registration, Evaluation and Authorization of Chemicals (EU, see NCP)  
SI = International System of Units  
STEL = Short-Term Exposure Limit  
tech. = Technical grade  
TSCA = Toxic Substances Control Act (US)  
TWA = Time-Weighted Average  
vPvB = Very Persistent and Very Bioaccumulative  
WHO = World Health Organization = OMS  
y = Year(s)

## 16.3 Key literature references and sources for data

None

## 16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Based on test data.

## 16.5 Relevant H- and EUH-phrases (Number and full text)

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

## 16.6 Training advice

None

## 16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)



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mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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