

Safety Data Sheet

according to UK REACH Regulation

Ethanol

Revision date: 16.08.2022

Product code: DP-102-V10

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Hazardous components

| CAS No | Chemical name | | | Quantity |
|---------|------------------------------------|--------------|----------|--------------|
| | EC No | Index No | REACH No | |
| | Classification (GB CLP Regulation) | | | |
| 64-17-5 | ethanol; ethyl alcohol | | | 95 - < 100 % |
| | 200-578-6 | 603-002-00-5 | | |
| | Flam. Liq. 2; H225 | | | |

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|---------|---|------------------------|--------------|
| | Specific Conc. Limits, M-factors and ATE | | |
| 64-17-5 | 200-578-6 | ethanol; ethyl alcohol | 95 - < 100 % |
| | inhalation: LC50 = 95,6 mg/l (vapours); oral: LD50 = 6200 mg/kg | | |

SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Provide fresh air.

After contact with skin

After contact with skin, wash immediately with: Water. Change contaminated clothing.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion

If swallowed, immediately drink: Water.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**Water. Carbon dioxide (CO₂). Foam. Extinguishing powder.**5.2. Special hazards arising from the substance or mixture**

Combustible. Vapours may form explosive mixtures with air.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Remove all sources of ignition. Provide adequate ventilation.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Explosion hazard.

6.3. Methods and material for containment and cleaning up**Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the

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recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking.

Advice on general occupational hygiene

Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from sources of ignition - No smoking.

Hints on joint storage

Do not store together with: Material, rich in oxygen, oxidizing.

Further information on storage conditions

Maximum storage temperature: + 30

Protect against: Light.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|---------|-----------|------|-------------------|-----------|-----------|--------|
| 64-17-5 | Ethanol | 1000 | 1920 | | TWA (8 h) | WEL |

8.2. Exposure controls**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state: liquid
 Colour: colourless

Changes in the physical state

Melting point/freezing point: -114 °C
 Boiling point or initial boiling point and boiling range: 78 °C
 Flash point: 12 °C
 Lower explosion limits: 3,5 vol. %
 Upper explosion limits: 15 vol. %
 Water solubility: easily soluble.
 Vapour pressure: 58 hPa
 (at 20 °C)
 Vapour pressure: 293 hPa
 (at 50 °C)
 Density: 0,79 g/cm³

SECTION 10: Stability and reactivity

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10.4. Conditions to avoid

Keep away from heat. Ignition hazard.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

| CAS No | Chemical name | | | | | |
|---------|-------------------------|---------------|-----------|--------|--------|--|
| | Exposure route | Dose | Species | Source | Method | |
| 64-17-5 | ethanol; ethyl alcohol | | | | | |
| | oral | LD50 mg/kg | 6200 | Rat | IUCLID | |
| | inhalation (4 h) vapour | LC50 | 95,6 mg/l | Rat | RTECS | |

SECTION 12: Ecological information**12.1. Toxicity**

| CAS No | Chemical name | | | | | |
|---------|--------------------------|------|----------------------|---------|---------------|--------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 64-17-5 | ethanol; ethyl alcohol | | | | | |
| | Acute crustacea toxicity | EC50 | 9268 - 14221 mg/l | 48 h | Daphnia magna | IUCLID |

12.3. Bioaccumulative potential**Partition coefficient n-octanol/water**

| CAS No | Chemical name | Log Pow |
|---------|------------------------|---------|
| 64-17-5 | ethanol; ethyl alcohol | -0,31 |

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of UK REACH.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation.

Contaminated packaging

Water (with cleaning agent). Completely emptied packages can be recycled.

SECTION 14: Transport information**Land transport (ADR/RID)**

| | |
|--|---------|
| 14.1. UN number or ID number: | UN 1170 |
| 14.2. UN proper shipping name: | Ethanol |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | II |
| Hazard label: | 3 |
| Classification code: | F1 |
| Special Provisions: | 144 601 |

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| | |
|--------------------------|-----|
| Limited quantity: | 1 L |
| Excepted quantity: | E2 |
| Transport category: | 2 |
| Hazard No: | 33 |
| Tunnel restriction code: | D/E |

Inland waterways transport (ADN)

| | |
|--|---------|
| 14.1. UN number or ID number: | UN 1170 |
| 14.2. UN proper shipping name: | Ethanol |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | II |
| Hazard label: | 3 |
| Classification code: | F1 |
| Special Provisions: | 144 601 |
| Limited quantity: | 1 L |
| Excepted quantity: | E2 |

Marine transport (IMDG)

| | |
|--|----------|
| 14.1. UN number or ID number: | UN 1170 |
| 14.2. UN proper shipping name: | Ethanol |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | II |
| Hazard label: | 3 |
| Special Provisions: | 144 |
| Limited quantity: | 1 L |
| Excepted quantity: | E2 |
| EmS: | F-E, S-D |

Air transport (ICAO-TI/IATA-DGR)

| | |
|--|-------------|
| 14.1. UN number or ID number: | UN 1170 |
| 14.2. UN proper shipping name: | ETHANOL |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | II |
| Hazard label: | 3 |
| Special Provisions: | A3 A58 A180 |
| Limited quantity Passenger: | 1 L |
| Passenger LQ: | Y341 |
| Excepted quantity: | E2 |
| IATA-packing instructions - Passenger: | 353 |
| IATA-max. quantity - Passenger: | 5 L |
| IATA-packing instructions - Cargo: | 364 |
| IATA-max. quantity - Cargo: | 60 L |

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40

2004/42/EC (VOC): 99,5 %

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

SECTION 16: Other information

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Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.