

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Ethanol absolute 99.7% denatured with MEK for analysis

Revision date: 28.02.2025

Product code: 11500

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Ethanol absolute 99.7% denatured with MEK for analysis

UFI: TAU0-R1C8-N005-XYV4

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Laboratory chemical

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

**Uses advised against**

Do not use for private purposes (household).

**1.3. Details of the supplier of the safety data sheet**

|                         |                                  |                              |
|-------------------------|----------------------------------|------------------------------|
| Company name:           | AnalytiChem GmbH                 |                              |
|                         | ACD                              |                              |
| Street:                 | Stempelstraße 6                  |                              |
| Place:                  | D-47167 Duisburg                 |                              |
| Telephone:              | 0203/5194-0                      | Telefax: 0203/5194-290       |
| E-mail:                 | info@analytichem.de              |                              |
| Contact person:         | Abteilung Produktsicherheit      | Telephone: 0203/5194-107/117 |
| E-mail:                 | produktsicherheit@analytichem.de |                              |
| Internet:               | www.analytichem.de               |                              |
| Responsible Department: | Abteilung Produktsicherheit      |                              |

**1.4. Emergency telephone number:**

For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

**Further Information**

This product is a mixture. REACH Registration Number see section 3.

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Flam. Liq. 2; H225

Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****Regulation (EC) No 1272/2008****Signal word:** Danger**Pictograms:****Hazard statements**

H225

Highly flammable liquid and vapour.

H319

Causes serious eye irritation.

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**Precautionary statements**

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 Keep container tightly closed.
- P241 Use explosion-proof electrical/ventilating/lighting equipment.
- P243 Take action to prevent static discharges.
- P280 Wear protective gloves and eye protection/face protection.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P403+P235 Store in a well-ventilated place. Keep cool.

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

**Relevant ingredients**

| CAS No  | Chemical name  |              |                  | Quantity     |
|---------|--|--------------|------------------|--------------|
|         | EC No  | Index No     | REACH No         |              |
|         | Classification (Regulation (EC) No 1272/2008)                |              |                  |              |
| 64-17-5 | ethanol  |              |                  | 95 - < 100 % |
|         | 200-578-6  | 603-002-00-5 | 01-2119457610-43 |              |
|         | Flam. Liq. 2, Eye Irrit. 2; H225 H319                        |              |                  |              |
| 78-93-3 | butanone   |              |                  | 1 - < 5 %    |
|         | 201-159-0  | 606-002-00-3 | 01-2119457290-43 |              |
|         | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066 |              |                  |              |

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       | 95 - < 100 % |
|         | inhalation: LC50 = 124,7 mg/l (vapours); oral: LD50 = 10470 mg/kg Eye Irrit. 2; H319: >= 50 - 100 |               |              |

**Further Information**

No data available

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

No data available

**After inhalation**

- Provide fresh air.
- Call a doctor if you feel unwell.

**After contact with skin**

- Wash immediately with: Water
- Take off immediately all contaminated clothing and wash it before reuse.

**After contact with eyes**

- After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
- Remove contact lenses, if present and easy to do. Continue rinsing.

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#### After ingestion

Rinse mouth immediately and drink plenty of water.  
Call a physician immediately.  
Aspiration hazard

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

Irritant  
Dizziness  
The product causes narcotic-like effects.  
Inebriation  
Vomiting

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

No data available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Water spray jet, Carbon dioxide (CO<sub>2</sub>), Foam, Extinguishing powder.

##### Unsuitable extinguishing media

Full water jet

#### 5.2. Special hazards arising from the substance or mixture

Combustible liquid.  
Vapours are heavier than air, spread along floors and form explosive mixtures with air.  
Hazardous combustion products In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>), Carbon monoxide  
Beware of reignition.

#### 5.3. Advice for firefighters

Remove persons to safety. Do not inhale explosion and combustion gases.  
Avoid contact with skin, eyes and clothes.  
In case of fire: Wear self-contained breathing apparatus.  
Use water spray jet to protect personnel and to cool endangered containers.

#### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.  
Suppress gases/vapours/mists with water spray jet.  
Move undamaged containers from immediate hazard area if it can be done safely.

### SECTION 6: Accidental release measures

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

##### General advice

Keep away from sources of ignition - No smoking.  
This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).  
Take action to prevent static discharges.

##### For non-emergency personnel

Provide adequate ventilation.  
Use personal protection equipment.  
Avoid contact with skin, eyes and clothes.  
Remove persons to safety.  
Emergency procedures  
Consult an expert  
Do not breathe dust/fume/gas/mist/vapours/spray.

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#### For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

Danger of explosion

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

##### For containment

Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Collect in closed and suitable containers for disposal.

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

##### For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

##### Other information

Provide adequate ventilation.

Do not breathe dust/fume/gas/mist/vapours/spray.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Read label before use. Handle and open container with care.

When using do not eat, drink, smoke, sniff. Keep container tightly closed.

Use personal protection equipment. Use extractor hood (laboratory).

Do not breathe vapour. Provide adequate ventilation.

#### Advice on protection against fire and explosion

Take action to prevent static discharges. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of protective agents must be clarified with their suppliers.

#### Further information on handling

Take off immediately all contaminated clothing and wash it before reuse.

Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary.

### 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 heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Hints on joint storage

Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.  
national regulations

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**Further information on storage conditions**

Vapours may form explosive mixtures with air.

**7.3. Specific end use(s)**

Laboratory use Laboratory chemical

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Occupational exposure limits**

| CAS No  | Substance                               | ppm  | mg/m <sup>3</sup> | fib/cm <sup>3</sup> | Category      | Origin |
|---------|---|------|-------------------|---------------------|---------------|--------|
| 64-17-5 | Ethyl alcohol                           | 1000 | -                 |                     | STEL (15 min) |        |
| 78-93-3 | Methyl ethyl ketone (MEK) (Butan-2-one) | 200  | 600               |                     | TWA (8 h)     |        |
|         |   | 300  | 900               |                     | STEL (15 min) |        |

**Biological limit values**

| CAS No  | Substance   | Parameter   | Value     | Test material | Sampling time |
|---------|-------------|-------------|-----------|---------------|---------------|
| 78-93-3 | Butan-2-one | Butan-2-one | 70 µmol/L | Urine         | Post shift    |

**DNEL/DMEL values**

| CAS No  | Substance | DNEL type                | Exposure route | Effect   | Value                 |
|---------|-----------|--------------------------|----------------|----------|-----------------------|
| 64-17-5 | ethanol   | Worker DNEL, long-term   | inhalation     | systemic | 950 mg/m <sup>3</sup> |
|         |           | Worker DNEL, long-term   | dermal         | systemic | 343 mg/kg bw/day      |
|         |           | Consumer DNEL, long-term | inhalation     | systemic | 114 mg/m <sup>3</sup> |
|         |           | Consumer DNEL, long-term | dermal         | systemic | 206 mg/kg bw/day      |
|         |           | Consumer DNEL, long-term | oral           | systemic | 87 mg/kg bw/day       |
| 78-93-3 | butanone  | Worker DNEL, long-term   | inhalation     | systemic | 600 mg/m <sup>3</sup> |
|         |           | Worker DNEL, long-term   | dermal         | systemic | 1161 mg/kg bw/day     |
|         |           | Consumer DNEL, long-term | inhalation     | systemic | 106 mg/m <sup>3</sup> |
|         |           | Consumer DNEL, long-term | dermal         | systemic | 412 mg/kg bw/day      |
|         |           | Consumer DNEL, long-term | oral           | systemic | 31 mg/kg bw/day       |

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**PNEC values**

| CAS No   | Substance | Value        |
|--|-----------|--------------|
| Environmental compartment                        |           |              |
| 64-17-5  | ethanol   |              |
| Freshwater                                       |           | 0,96 mg/l    |
| Freshwater (intermittent releases)               |           | 2,75 mg/l    |
| Marine water                                     |           | 0,79 mg/l    |
| Freshwater sediment                              |           | 3,6 mg/kg    |
| Marine sediment                                  |           | 2,9 mg/kg    |
| Secondary poisoning                              |           | 380 mg/kg    |
| Micro-organisms in sewage treatment plants (STP) |           | 580 mg/l     |
| Soil   |           | 0,63 mg/kg   |
| 78-93-3  | butanone  |              |
| Freshwater                                       |           | 55,8 mg/l    |
| Freshwater (intermittent releases)               |           | 55,8 mg/l    |
| Marine water                                     |           | 55,8 mg/l    |
| Freshwater sediment                              |           | 284,74 mg/kg |
| Marine sediment                                  |           | 284,7 mg/kg  |
| Secondary poisoning                              |           | 1000 mg/kg   |
| Micro-organisms in sewage treatment plants (STP) |           | 709 mg/l     |
| Soil   |           | 22,5 mg/kg   |

**8.2. Exposure controls**

**Appropriate engineering controls**

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**

Suitable eye protection: goggles.

**Hand protection**

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: [vertrieb@kcl.de](mailto:vertrieb@kcl.de) With specification (test according to EN374):

By long-term hand contact

Trade name/designation KCL 897 Butoject®

Suitable material: Butyl caoutchouc (butyl rubber) 0,3 mm

Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation KCL 720 Camapren®

Suitable material: CR (polychloroprene, chloroprene rubber) 0,65 mm

Wearing time with occasional contact (splashes): > 60 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet (>,<) supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

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#### Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing

#### Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

#### Thermal hazards

No data available

#### Environmental exposure controls

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

Danger of explosion

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |                           |
|---|---------------------------|
| Physical state:   | Liquid                    |
| Colour:   | colourless                |
| Odour:  | like: Alcohol             |
| Odour threshold:  | No data available         |
| Melting point/freezing point:                             | -114,5 °C                 |
| Boiling point or initial boiling point and boiling range: | 78 °C                     |
| Flammability:   | not applicable            |
| Lower explosion limits:                                   | 3,1 vol. %                |
| Upper explosion limits:                                   | 27,7 vol. %               |
| Flash point:  | 12 °C                     |
| Auto-ignition temperature:                                | 425 °C                    |
| Decomposition temperature:                                | not determined            |
| pH-Value (at 20 °C):                                      | 7 (10g/l)                 |
| Viscosity / kinematic:                                    | No data available         |
| Water solubility:   | Soluble in: Water         |
| Solubility in other solvents                              | not determined            |
| Dissolution rate:   | No data available         |
| Partition coefficient n-octanol/water:                    | -0,31                     |
| Dispersion stability:                                     | No data available         |
| Vapour pressure:<br>(at 50 °C)                            | 59 hPa                    |
| Vapour pressure:  | No data available         |
| Density:  | 0,79000 g/cm <sup>3</sup> |
| Relative density:   | No data available         |
| Bulk density:   | No data available         |
| Relative vapour density:                                  | not determined            |
| Particle characteristics:                                 | No data available         |

### 9.2. Other information

#### Information with regard to physical hazard classes

##### Explosive properties

Vapours can form explosive mixtures with air.

##### Sustaining combustion:

Sustaining combustion

##### Self-ignition temperature

##### Solid:

not applicable

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|                                     |                   |
|-------------------------------------|-------------------|
| Gas:                                | not applicable    |
| Oxidizing properties                |                   |
| Not oxidising.                      |                   |
| <b>Other safety characteristics</b> |                   |
| Evaporation rate:                   | not determined    |
| Solvent separation test:            | No data available |
| Solvent content:                    | No data available |
| Solid content:                      | No data available |
| Sublimation point:                  | No data available |
| Softening point:                    | No data available |
| Pour point:                         | No data available |
| No data available:                  |                   |
| Viscosity / dynamic:<br>(at 20 °C)  | 1,2 mPa·s         |
| Flow time:                          | No data available |

#### Further Information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Highly flammable.  
Vapours can form explosive mixtures with air.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

Oxidising agent

### 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

### 10.5. Incompatible materials

Plastic articles  
Rubber articles

### 10.6. Hazardous decomposition products

Hazardous combustion products  
In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>), Carbon monoxide

#### Further information

No data available

## SECTION 11: Toxicological information

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

#### Toxicokinetics, metabolism and distribution

No data available

#### Acute toxicity

Based on available data, the classification criteria are not met.

#### ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l



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| CAS No  | Chemical name           |               |         |        |   |
|---------|-------------------------|---------------|---------|--------|---|
|         | Exposure route          | Dose          | Species | Source | Method                                    |
| 64-17-5 | ethanol                 |               |         |        |   |
|         | oral                    | LD50<br>mg/kg | 10470   | Rat    | Study report (1976)<br>OECD Guideline 401 |
|         | inhalation (4 h) vapour | LC50<br>mg/l  | 124,7   | Rat    | Study report (1980)<br>OECD Guideline 403 |

**Irritation and corrosivity**

Serious eye damage/eye irritation: Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

**Sensitising effects**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Information on likely routes of exposure**

No data available

**Specific effects in experiment on an animal**

No data available

**Additional information on tests**

No data available

**Practical experience**

No data available

**11.2. Information on other hazards**

**Endocrine disrupting properties**

No data available

**Other information**

Irritant

Dizziness

The product causes narcotic-like effects.

Inebriation

Vomiting

**Further information**

Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).

**SECTION 12: Ecological information**

**12.1. Toxicity**

Based on available data, the classification criteria are not met.

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| CAS No  | Chemical name            |                      |           |                                 |   |  |
|---------|--------------------------|----------------------|-----------|---------------------------------|---|--|
|         | Aquatic toxicity         | Dose                 | [h]   [d] | Species                         | Source                                    | Method                                   |
| 64-17-5 | ethanol                  |                      |           |                                 |   |  |
|         | Acute fish toxicity      | LC50 15400 mg/l      | 96 h      | Lepomis macrochirus             | Bulletin of Environmental Contamination   | other: EPA-660/3-75-009, 1975            |
|         | Acute algae toxicity     | ErC50 ca. 22000 mg/l | 96 h      | Pseudokirchneriella subcapitata | Ecotoxicology and Environmental Safety 7  | OECD Guideline 201                       |
|         | Acute crustacea toxicity | EC50 > 10000 mg/l    | 48 h      | Daphnia magna                   | Water Research 23(4): 495-499 (1989)      | other: DIN 38412 Teil 11                 |
|         | Algae toxicity           | NOEC 5400 mg/l       | 5 d       | Skeletonema costatum            | Environ Toxicol Chem 8(5):451-455. (1989) | Study to determine the sensitivity of a  |
|         | Crustacea toxicity       | NOEC 2 mg/l          | 10 d      | Ceriodaphnia dubia              | Arch Environ Contam Toxicol 20(2):211-21  | Follows the basic methodology for the th |
| 78-93-3 | butanone                 |                      |           |                                 |   |  |
|         | Acute fish toxicity      | LC50 2993 mg/l       | 96 h      | Pimephales promelas             | Study report (1998)                       | OECD Guideline 203                       |
|         | Acute algae toxicity     | ErC50 2029 mg/l      | 96 h      | Pseudokirchneriella subcapitata | Study report (1998)                       | OECD Guideline 201                       |
|         | Acute crustacea toxicity | EC50 308 mg/l        | 48 h      | Daphnia magna                   | Study report (1998)                       | OECD Guideline 202                       |

**12.2. Persistence and degradability**

There are no data available on the mixture itself.

**12.3. Bioaccumulative potential**

There are no data available on the mixture itself.

**Partition coefficient n-octanol/water**

| CAS No  | Chemical name | Log Pow |
|---------|---------------|---------|
| 64-17-5 | ethanol       | -0,77   |
| 78-93-3 | butanone      | 0,3     |

**BCF**

| CAS No  | Chemical name | BCF | Species         | Source               |
|---------|---------------|-----|-----------------|----------------------|
| 64-17-5 | ethanol       | 1   | Cyprinus carpio | Comparative Biochemi |

**12.4. Mobility in soil**

There are no data available on the mixture itself.

**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**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. Other adverse effects**

Do not empty into drains.

**Further information**

Avoid release to the environment.

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

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Do not allow to enter into surface water or drains.

Send to a physico-chemical treatment facility under observation of official regulations.

**Contaminated packaging**

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Handle contaminated packages in the same way as the substance itself.

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

|  |                         |
|--|-------------------------|
| <b>14.1. UN number or ID number:</b>     | UN 1170                 |
| <b>14.2. UN proper shipping name:</b>    | ETHANOL (ETHYL ALCOHOL) |
| <b>14.3. Transport hazard class(es):</b> | 3                       |
| <b>14.4. Packing group:</b>              | II                      |
| Hazard label:                            | 3                       |
| Classification code:                     | F1                      |
| Special Provisions:                      | 144 601                 |
| Limited quantity:                        | 1 L                     |
| Excepted quantity:                       | E2                      |
| Transport category:                      | 2                       |
| Hazard No:                               | 33                      |
| Tunnel restriction code:                 | D/E                     |

**Inland waterways transport (ADN)**

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

**Marine transport (IMDG)**

|  |                         |
|--|-------------------------|
| <b>14.1. UN number or ID number:</b>     | UN 1170                 |
| <b>14.2. UN proper shipping name:</b>    | ETHANOL (ETHYL ALCOHOL) |
| <b>14.3. Transport hazard class(es):</b> | 3                       |
| <b>14.4. Packing group:</b>              | 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)**

|  |                         |
|--|-------------------------|
| <b>14.1. UN number or ID number:</b>     | UN 1170                 |
| <b>14.2. UN proper shipping name:</b>    | ETHANOL (ETHYL ALCOHOL) |
| <b>14.3. Transport hazard class(es):</b> | 3                       |
| <b>14.4. Packing group:</b>              | II                      |

## Safety Data Sheet

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### Ethanol absolute 99.7% denatured with MEK for analysis

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|  |             |      |
|--|-------------|------|
| 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 |

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

#### 14.6. Special precautions for user

Warning: Combustible liquid.

#### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

### 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, Entry 75

Directive 2004/42/EC on VOC in  
paints and varnishes: 100 %

Information according to Directive  
2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

##### National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

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

### SECTION 16: Other information

#### Changes

This data sheet contains changes from the previous version in section(s): 9,12,15.

#### Abbreviations and acronyms

Flam. Liq: Flammable liquid

Eye Irrit: Eye irritation

STOT SE: Specific target organ toxicity - single exposure

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

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**Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]**

| Classification     | Classification procedure |
|--------------------|--------------------------|
| Flam. Liq. 2; H225 | On basis of test data    |
| Eye Irrit. 2; H319 | Calculation method       |

**Relevant H and EUH statements (number and full text)**

|        |   |
|--------|---|
| H225   | Highly flammable liquid and vapour.                   |
| H319   | Causes serious eye irritation.                        |
| H336   | May cause drowsiness or dizziness.                    |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

**Further Information**

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 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. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. Provide appropriate information, instructions and training to users

*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*