



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 14-Apr-2022

Revision Number 1

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

### 1.1. Product identifier

**Product Code(s)** ALK-ETWA70  
**Product Name** Certified Ethanol Standard – 70 % ABV (Alcohol by Volume)  
**Unique Formula Identifier (UFI)** NJY5-X0C0-2009-988F  
**Pure substance/mixture** Mixture

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

**Recommended use** Laboratory use  
**Uses advised against** No information available

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

#### Supplier

LGC Limited  
Queens Road  
Teddington  
Middlesex TW11 0LY  
UNITED KINGDOM  
:+44 (0) 20 8943 7000  
Fax :+44 (0) 20 8943 2767  
eMail : gb@lgcstandards.com

Web : www.lgcstandards.com

For further information, please contact

**E-mail address** sds-request@lgcgroup.com

### 1.4. Emergency telephone number

**Emergency Telephone** For Hazardous Materials or Dangerous Goods Incident  
Spill, Leak, Fire Exposure, or Accident  
Call CHEMTREC:  
USA & Canada 1-800-424-9300  
Rest of the world +1 703-741-5970

#### Emergency Telephone - §45 - (EC)1272/2008

|                |                          |
|----------------|--------------------------|
| <b>Europe</b>  | 112                      |
| <b>Austria</b> | No information available |



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|                |   |
|----------------|---|
| Bulgaria       |   |
| Croatia        |   |
| Cyprus         |   |
| Czech Republic |   |
| Denmark        |   |
| France         |   |
| Hungary        |   |
| Ireland        |   |
| Italy          |   |
| Lithuania      |   |
| Luxembourg     | (+352) 8002 5500 Free telephone number with a 24/7 access in French, Dutch and English. |
| Netherlands    |   |
| Norway         |   |
| Portugal       |   |
| Romania        |   |
| Slovakia       |   |
| Slovenia       |   |
| Spain          |   |
| Sweden         |   |
| Switzerland    |   |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

|                                   |                     |
|-----------------------------------|---------------------|
| Serious eye damage/eye irritation | Category 2 - (H319) |
| Flammable liquids                 | Category 2 - (H225) |

### 2.2. Label elements



Signal word  
Danger

#### Hazard statements

H319 - Causes serious eye irritation

H225 - Highly flammable liquid and vapour



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### Precautionary Statements - EU (§28, 1272/2008)

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

P233 - Keep container tightly closed

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

P337 + P313 - If eye irritation persists: Get medical advice/attention

P370 + P378 - In case of fire: Use dry chemical, CO<sub>2</sub>, water spray or alcohol-resistant foam to extinguish

P403 + P235 - Store in a well-ventilated place. Keep cool

### 2.3. Other hazards

Toxic to aquatic life.

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

### Endocrine Disruptor Information

| Chemical name | EU - REACH (1907/2006) - Article 59(1) - Candidate List of Substances of Very High Concern (SVHC) for Authorisation | EU - REACH (1907/2006) - Endocrine Disruptor Assessment List of Substances |
|---------------|---|--|
| Ethanol       | -   | -  |

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

**Chemical nature** Aqueous solution of organic solvent.

| Chemical name      | Weight-% | REACH registration number | EC No     | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) |
|--------------------|----------|---------------------------|-----------|---|------------------------------------|----------|----------------------|
| Ethanol<br>64-17-5 | 60 - 80  | -                         | 200-578-6 | Flam. Liq. 2 (H225)<br>Eye Irrit. 2 (H319)                      |                                    |          |                      |

### Full text of H- and EUH-phrases: see section 16

#### Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATE<sub>mix</sub>) for classifying a mixture based on its components



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| Chemical name      | Oral LD50<br>mg/kg | Dermal LD50<br>mg/kg | Inhalation LC50 - 4<br>hour - dust/mist - mg/L | Inhalation LC50 - 4<br>hour - vapour - mg/L | Inhalation LC50 - 4<br>hour - gas - ppm |
|--------------------|--------------------|----------------------|--|---|---|
| Ethanol<br>64-17-5 | 7060               | No data available    | 124.7  | No data available                           | No data available                       |

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|   |  |
|---|--|
| <b>General advice</b>                     | Show this safety data sheet to the doctor in attendance.   |
| <b>Inhalation</b>                         | Remove to fresh air.   |
| <b>Eye contact</b>                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.                            |
| <b>Skin contact</b>                       | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.  |
| <b>Ingestion</b>                          | Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.   |
| <b>Self-protection of the first aider</b> | Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. |

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

**Symptoms** May cause redness and tearing of the eyes. Burning sensation.

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

**Note to doctors** Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable Extinguishing Media** Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray. Alcohol resistant foam.



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### Large Fire

CAUTION: Use of water spray when fighting fire may be inefficient.

### Unsuitable extinguishing media

Do not scatter spilled material with high pressure water streams.

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

#### Specific hazards arising from the chemical

Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

### 5.3. Advice for firefighters

#### Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## SECTION 6: Accidental release measures

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

#### Personal precautions

Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

#### Other information

Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

#### For emergency responders

Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

#### Environmental precautions

Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

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

#### Methods for containment

Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

#### Methods for cleaning up

Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

#### Prevention of secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations.



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### 6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Use personal protection equipment. Avoid breathing vapours or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product.

#### General hygiene considerations

Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection.

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

#### Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA.

### 7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limits



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|                    |   |  |  |  |  |
|--------------------|---|--|--|--|--|
| Chemical name      | European Union  | Austria  | Belgium  | Bulgaria   | Croatia  |
| Ethanol<br>64-17-5 | -   | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup><br>STEL 2000 ppm<br>STEL 3800 mg/m <sup>3</sup>   | TWA: 1000 ppm<br>TWA: 1907 mg/m <sup>3</sup>   | TWA: 1000 mg/m <sup>3</sup>  | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup>   |
| Chemical name      | Cyprus  | Czech Republic   | Denmark  | Estonia  | Finland  |
| Ethanol<br>64-17-5 | -   | TWA: 1000 mg/m <sup>3</sup><br>Ceiling: 3000 mg/m <sup>3</sup>                                 | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup>   | TWA: 500 ppm<br>TWA: 1000 mg/m <sup>3</sup><br>STEL: 1000 ppm<br>STEL: 1900 mg/m <sup>3</sup>    | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup><br>STEL: 1300 ppm<br>STEL: 2500 mg/m <sup>3</sup> |
| Chemical name      | France  | Germany  | Germany MAK  | Greece   | Hungary  |
| Ethanol<br>64-17-5 | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup><br>STEL: 5000 ppm<br>STEL: 9500 mg/m <sup>3</sup>                    | TWA: 200 ppm<br>TWA: 380 mg/m <sup>3</sup>   | TWA: 200 ppm<br>TWA: 380 mg/m <sup>3</sup><br>Peak: 800 ppm<br>Peak: 1520 mg/m <sup>3</sup>  | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup>   | TWA: 1900 mg/m <sup>3</sup><br>STEL: 3800 mg/m <sup>3</sup>                                    |
| Chemical name      | Ireland   | Italy  | Italy REL  | Latvia   | Lithuania  |
| Ethanol<br>64-17-5 | STEL: 1000 ppm  | -  | STEL: 1000 ppm<br>STEL: 1884 mg/m <sup>3</sup>   | TWA: 1000 mg/m <sup>3</sup>  | TWA: 500 ppm<br>TWA: 1000 mg/m <sup>3</sup><br>STEL: 1000 ppm<br>STEL: 1900 mg/m <sup>3</sup>  |
| Chemical name      | Luxembourg  | Malta  | Netherlands  | Norway   | Poland   |
| Ethanol<br>64-17-5 | -   | -  | TWA: 260 mg/m <sup>3</sup><br>STEL: 1900 mg/m <sup>3</sup><br>H*                             | TWA: 500 ppm<br>TWA: 950 mg/m <sup>3</sup><br>STEL: 625 ppm<br>STEL: 1187.5<br>mg/m <sup>3</sup> | TWA: 1900 mg/m <sup>3</sup>  |
| Chemical name      | Portugal  | Romania  | Slovakia   | Slovenia   | Spain  |
| Ethanol<br>64-17-5 | TWA: 1000 ppm   | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup><br>STEL: 5000 ppm<br>STEL: 9500 mg/m <sup>3</sup> | TWA: 500 ppm<br>TWA: 960 mg/m <sup>3</sup><br>Ceiling: 1920 mg/m <sup>3</sup>                | TWA: 960 mg/m <sup>3</sup><br>TWA: 500 ppm<br>STEL: STEL ppm<br>STEL: STEL mg/m <sup>3</sup>     | STEL: 1000 ppm<br>STEL: 1910 mg/m <sup>3</sup>   |
| Chemical name      | Sweden  |  | Switzerland  | United Kingdom   |  |
| Ethanol<br>64-17-5 | NGV: 500 ppm<br>NGV: 1000 mg/m <sup>3</sup><br>Vägledande KGV: 1000 ppm<br>Vägledande KGV: 1900 mg/m <sup>3</sup> |  | TWA: 500 ppm<br>TWA: 960 mg/m <sup>3</sup><br>STEL: 1000 ppm<br>STEL: 1920 mg/m <sup>3</sup> | TWA: 1000 ppm<br>TWA: 1920 mg/m <sup>3</sup><br>STEL: 3000 ppm<br>STEL: 5760 mg/m <sup>3</sup>   |  |

### Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

**Derived No Effect Level (DNEL)** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.



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### 8.2. Exposure controls

#### Personal protective equipment

|  |   |
|--|---|
| <b>Eye/face protection</b>             | Tight sealing safety goggles. Avoid contact with eyes. Wear safety glasses with side shields (or goggles).  |
| <b>Hand protection</b>                 | Wear suitable gloves. Impervious gloves. The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear protective butyl rubber gloves.   |
| <b>Skin and body protection</b>        | Long sleeved clothing. Chemical resistant apron. Antistatic boots. Wear suitable protective clothing.   |
| <b>Respiratory protection</b>          | No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.  |
| <b>General hygiene considerations</b>  | Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection. |
| <b>Environmental exposure controls</b> | Do not allow into any sewer, on the ground or into any body of water.   |

## **SECTION 9: Physical and chemical properties**

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

|                        |                          |
|------------------------|--------------------------|
| <b>Physical state</b>  | Liquid                   |
| <b>Appearance</b>      | Liquid                   |
| <b>Colour</b>          | colourless               |
| <b>Odour</b>           | Alcohol.                 |
| <b>Odour threshold</b> | No information available |

| <u>Property</u>                                | <u>Values</u>     | <u>Remarks • Method</u> |
|--|-------------------|-------------------------|
| <b>Melting point / freezing point</b>          | No data available | None known              |
| <b>Initial boiling point and boiling range</b> | No data available | None known              |
| <b>Flammability</b>                            | No data available | None known              |
| <b>Flammability Limit in Air</b>               |                   | None known              |
| <b>Upper flammability or explosive limits</b>  | No data available |                         |
| <b>Lower flammability or explosive limits</b>  | No data available |                         |





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|                            |                          |                          |
|----------------------------|--------------------------|--------------------------|
| Flash point                | No data available        | None known               |
| Autoignition temperature   | No data available        | None known               |
| Decomposition temperature  |                          | None known               |
| pH                         | No data available        | None known               |
| pH (as aqueous solution)   | No data available        | No information available |
| Kinematic viscosity        | No data available        | None known               |
| Dynamic viscosity          | No data available        | None known               |
| Water solubility           | No data available        | None known               |
| Solubility(ies)            | No data available        | None known               |
| Partition coefficient      | No data available        | None known               |
| Vapour pressure            | No data available        | None known               |
| Relative density           | No data available        | None known               |
| Bulk density               | No data available        |                          |
| Liquid Density             | No data available        |                          |
| Relative vapour density    | No data available        | None known               |
| Particle characteristics   |                          |                          |
| Particle Size              | No information available |                          |
| Particle Size Distribution | No information available |                          |

### 9.2. Other information

9.2.1. Information with regards to physical hazard classes  
Not applicable

9.2.2. Other safety characteristics  
No information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity No information available.

### 10.2. Chemical stability

Stability Stable under normal conditions.

#### Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge Yes.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

### 10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks.



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### 10.5. Incompatible materials

**Incompatible materials** None known based on information supplied.

**Hazardous decomposition products** None known based on information supplied.

## **SECTION 11: Toxicological information**

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

#### Information on likely routes of exposure

##### Product Information

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Specific test data for the substance or mixture is not available.   |
| <b>Eye contact</b>  | Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain. |
| <b>Skin contact</b> | Specific test data for the substance or mixture is not available.   |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available.   |

#### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** May cause redness and tearing of the eyes.

#### Numerical measures of toxicity

##### Acute toxicity

##### Component Information

| Chemical name | Oral LD50            | Dermal LD50 | Inhalation LC50          |
|---------------|----------------------|-------------|--------------------------|
| Ethanol       | = 7060 mg/kg ( Rat ) |             | = 124.7 mg/L ( Rat ) 4 h |

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

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



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**Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes serious eye irritation.

**Respiratory or skin sensitisation** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

#### 11.2.2. Other information

**Other adverse effects** No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity** Toxic to aquatic life.

**Unknown aquatic toxicity** Contains 0 % of components with unknown hazards to the aquatic environment.

| Chemical name | Algae/aquatic plants | Fish   | Toxicity to microorganisms | Crustacea                                      |
|---------------|----------------------|--|----------------------------|--|
| Ethanol       | -                    | LC50: 12.0 - 16.0mL/L<br>(96h, Oncorhynchus) | -                          | LC50: 9268 - 14221mg/L<br>(48h, Daphnia magna) |



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|  |  |   |  |                                      |
|--|--|---|--|--------------------------------------|
|  |  | mykiss)<br>LC50: 13400 -<br>15100mg/L (96h,<br>Pimephales promelas)<br>LC50: >100mg/L (96h,<br>Pimephales promelas) |  | EC50: =2mg/L (48h,<br>Daphnia magna) |
|--|--|---|--|--------------------------------------|

### 12.2. Persistence and degradability

**Persistence and degradability** No information available.

### 12.3. Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

### Component Information

| Chemical name | Partition coefficient |
|---------------|-----------------------|
| Ethanol       | -0.32                 |

### 12.4. Mobility in soil

**Mobility in soil** No information available.

### 12.5. Results of PBT and vPvB assessment

#### PBT and vPvB assessment

| Chemical name | PBT and vPvB assessment                                       |
|---------------|---|
| Ethanol       | The substance is not PBT / vPvB PBT assessment does not apply |

### 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

### 12.7. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Waste from residues/unused products** Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.



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**Contaminated packaging** Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

### SECTION 14: Transport information

#### IATA

|                                   |                                 |
|-----------------------------------|---------------------------------|
| 14.1 UN number or ID number       | UN1170                          |
| 14.2 UN proper shipping name      | Ethanol solution                |
| 14.3 Transport hazard class(es)   | 3                               |
| 14.4 Packing group                | II                              |
| Description                       | UN1170, Ethanol solution, 3, II |
| 14.5 Environmental hazards        | Not applicable                  |
| 14.6 Special precautions for user |                                 |
| Special Provisions                | A180, A3, A58                   |
| ERG Code                          | 3L                              |

#### IMDG

|  |                                   |
|--|-----------------------------------|
| 14.1 UN number or ID number                                  | UN1170                            |
| 14.2 UN proper shipping name                                 | Ethanol solution                  |
| 14.3 Transport hazard class(es)                              | 3                                 |
| 14.4 Packing group   | II                                |
| Description  | UN1170, Ethanol solution, 3, II   |
| 14.5 Marine pollutant  | NP                                |
| 14.6 Special precautions for user                            |                                   |
| Special Provisions   | 144                               |
| EmS-No   | F-E, S-D No information available |
| 14.7 Maritime transport in bulk according to IMO instruments | No information available          |

#### RID

|                                   |                                 |
|-----------------------------------|---------------------------------|
| 14.1 UN number or ID number       | UN1170                          |
| 14.2 UN proper shipping name      | Ethanol solution                |
| 14.3 Transport hazard class(es)   | 3                               |
| 14.4 Packing group                | II                              |
| Description                       | UN1170, Ethanol solution, 3, II |
| 14.5 Environmental hazards        | Not applicable                  |
| 14.6 Special precautions for user |                                 |
| Special Provisions                | 144, 601                        |
| Classification code               | F1                              |

#### ADR

|                                 |  |
|---------------------------------|--|
| 14.1 UN number or ID number     | UN1170                                 |
| 14.2 UN proper shipping name    | Ethanol solution                       |
| 14.3 Transport hazard class(es) | 3                                      |
| 14.4 Packing group              | II                                     |
| Description                     | UN1170, Ethanol solution, 3, II, (D/E) |
| 14.5 Environmental hazards      | Not applicable                         |



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### 14.6 Special precautions for user

Special Provisions 144, 601  
Classification code F1  
Tunnel restriction code (D/E)

## SECTION 15: Regulatory information

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

#### National regulations

##### France

#### Occupational Illnesses (R-463-3, France)

| Chemical name      | French RG number | Title |
|--------------------|------------------|-------|
| Ethanol<br>64-17-5 | RG 84            | -     |

Water hazard class (WGK) slightly hazardous to water (WGK 1)

##### Netherlands

| Chemical name | Netherlands - List of Carcinogens | Netherlands - List of Carcinogens | Netherlands - List of Reproductive Toxins  |
|---------------|-----------------------------------|-----------------------------------|--|
| Ethanol       | Present                           | -                                 | Fertility Category 1A<br>Development Category 1A<br>Can be harmful via breastfeeding |

##### Poland

SDS created according to the following Polish regulation: Act of February 25, 2011 on chemical substances and their mixtures (Journal of Laws of 2018, item 143, as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency (EC) as amended. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, as amended. Regulation of the Minister of Health of 10 August 2012 on the criteria and method of classifying chemical substances and their mixtures (Journal of Laws of 2012, item 1018). Regulation of the Minister of Health of 20 April 2012 on labeling packaging of hazardous substances and mixtures and some mixtures (Journal of Laws of 2012, item 445). Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018 on the maximum allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286). Announcement of the Minister of Economy, Labor and Social Policy of August 28, 2003 on the publication of the unified text of the Ordinance of the Minister of Labor



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and Social Policy on general health and safety at work regulations (Journal of Laws of 2003, No. 169, item 1650) . Regulation of the Minister of Health of 30 December 2004 on occupational safety and health related to the presence of chemical agents in the workplace (Journal of Laws of 2005, No. 11, item 86). Act of December 14, 2012 on waste (Journal of Laws of 2013, item 21) Regulation of the Minister of Health of December 30, 2004 on occupational health and safety related to the presence of chemical agents in the workplace (Journal U. of 2005, No. 11, item 86). Waste Act of December 14, 2012 (Journal of Laws of 2013, item 21). Act of 13 June 2013 on the management of packaging and packaging waste, Journal of Laws 2013, item 888). Government statement of September 24, 2002 - European Agreement on the International Carriage of Dangerous Goods by Road (ADR) (Journal of Laws No. 194, item 1629 and Journal of Laws of 2003, No. 207, item 2013 and 2014).

### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

### DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursors

Not applicable

### Persistent Organic Pollutants

Not applicable

### Dangerous substance category per Seveso Directive (2012/18/EU)

P5a - FLAMMABLE LIQUIDS

P5b - FLAMMABLE LIQUIDS

P5c - FLAMMABLE LIQUIDS

### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

### International Inventories

TSCA

Contact supplier for inventory compliance status

DSL/NDL

Contact supplier for inventory compliance status

EINECS/ELINCS

Contact supplier for inventory compliance status

ENCS

Contact supplier for inventory compliance status

IECSC

Contact supplier for inventory compliance status

KECL

Contact supplier for inventory compliance status



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**PICCS** Contact supplier for inventory compliance status  
**AIIC** Contact supplier for inventory compliance status

### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

### 15.2. Chemical safety assessment

**Chemical Safety Report** A Chemical Safety Assessment has been carried out for this substance

## SECTION 16: Other information

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

H225 - Highly flammable liquid and vapour

H319 - Causes serious eye irritation

#### Legend

SVHC: Substances of Very High Concern for Authorisation:

#### Legend Section 8: Exposure controls/personal protection

**TWA** TWA (time-weighted average) **STEL** STEL (Short Term Exposure Limit)  
**Ceiling** Maximum limit value \* Skin designation

| Classification procedure  |                    |
|---|--------------------|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used        |
| Acute oral toxicity   | Calculation method |
| Acute dermal toxicity   | Calculation method |
| Acute inhalation toxicity - gas                                 | Calculation method |
| Acute inhalation toxicity - Vapour                              | Calculation method |
| Acute inhalation toxicity - dust/mist                           | Calculation method |
| Skin corrosion/irritation                                       | Calculation method |
| Serious eye damage/eye irritation                               | Calculation method |
| Respiratory sensitisation                                       | Calculation method |
| Skin sensitisation  | Calculation method |
| Mutagenicity  | Calculation method |
| Carcinogenicity   | Calculation method |





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|                          |                       |
|--------------------------|-----------------------|
| Reproductive toxicity    | Calculation method    |
| STOT - single exposure   | Calculation method    |
| STOT - repeated exposure | Calculation method    |
| Acute aquatic toxicity   | Calculation method    |
| Chronic aquatic toxicity | Calculation method    |
| Aspiration hazard        | Calculation method    |
| Ozone                    | Calculation method    |
| Flammable liquids        | On basis of test data |

### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)  
U.S. Environmental Protection Agency ChemView Database  
European Food Safety Authority (EFSA)  
EPA (Environmental Protection Agency)  
Acute Exposure Guideline Level(s) (AEGL(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
Japan GHS Classification  
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme  
Organisation for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

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This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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**End of Safety Data Sheet**