

# Material Safety Data Sheet

## ETHANOL

### Section 1 - Chemical Product and Company Identification

MSDS Name : **Ethanol**

Synonyms : Ethyl alcohol

### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	EC no	EINECS/ELINCS
64-17-5	Ethanol	200-578-6	NA

### Section 3 - Hazards Identification

#### 3.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Flammable liquids (Category 2), H225

Acute toxicity, Oral (Category 3), H301

Acute toxicity, Inhalation (Category 3), H331

Acute toxicity, Dermal (Category 3), H311

Specific target organ toxicity - single exposure (Category 1), H370

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 3.2 Label elements Labelling according Regulation (EC) No 1272/2008

Pictogram Highly inflammable, Toxic, Respiratory hazards

Signal word Danger

Hazard statement(s)

H225 Highly flammable liquid and vapour.

H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled.

H370 Causes damage to organs. Precautionary statement(s)

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

P280 Wear protective gloves/ protective clothing.

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P302 + P352 + P312 IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell. P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor.

P370 + P378 In case of fire: Use dry powder or dry sand to extinguish.

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

Supplemental Hazard Statements none

### 3.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## Section 4 - First Aid Measures

### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled If breathed in, move person into fresh air.

If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person.

Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

### 4.3 Indication of any immediate medical attention and special treatment needed No data available

## Section 5 - Fire Fighting Measures

### 5.1 Extinguishing media Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

Carbon oxides

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 5.4 Further information

Use water spray to cool unopened containers.

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## Section 6 - Accidental Release Measures

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

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

### 6.2 Environmental precautions Do not let product enter drains.

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

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. 6.4 Reference to other sections For disposal see section 13.

## Section 7 - Handling and Storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

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

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Hygroscopic room temperature

Storage class (TRGS 510): Non Combustible Solids

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## Section 8 - Exposure Controls, Personal Protection

### 8.1 Control parameters

Components with workplace control parameters

### 8.2 Exposure controls

Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Skin protection

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without

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touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Body Protection

Impervious clothing, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Control of environmental exposure Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## Section 9 - Physical and Chemical Properties

- a) Appearance Form: liquid
- b) Odour : no data available
- c) Odour Threshold :no data available
- d) pH : no data available
- e) Melting point/freezing point  
Melting point/range: 114 °C
- f) Initial boiling point and boiling range: 78 °C
- g) Flash point : 14.0 °C - closed cup
- h) Evaporation rate : no data available
- i) Flammability (solid, gas) : no data available
- j) Upper/lower flammability or explosive limits: no data available
- k) Vapour pressure : 44.6 mmHg at 20.0 °C
- l) Vapour density: no data available
- m) Relative density: 0.789g/mL at 25°C
- n) Water solubility: no data available
- o) Partition coefficient: log Pow: -0.35 at 24 °C
- p) Autoignition temperature : 363.0 °C
- q) Decomposition temperature: no data available
- r) Viscosity no data available
- s) Explosive properties :no data available
- t) Oxidizing properties : no data available

#### Other safety information

no data available

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## Section 10 - Stability and Reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

Exposure to moisture

### 10.5 Incompatible materials

Strong oxidizing agents, Strong acids

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx)

Other decomposition products –

No data available In the event of fire: see section 5

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

Acute toxicity

Acute toxicity

LD50 Oral - Rat - 10,470 mg/kg(Ethanol)

LC50 Inhalation - Rat - 4 h - 30,000 mg/l(Ethanol)

LD50 Dermal - Rabbit - 15,800 mg/kg(Ethanol)

Skin corrosion/irritation Skin - Rabbit(Ethanol)

Result: No skin irritation - 24 h (OECD Test Guideline 404)

Serious eye damage/eye irritation Eyes - Rabbit(Ethanol)

Result: Moderate eye irritation

(OECD Test Guideline 405)

Respiratory or skin sensitisation

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No data available(Ethanol)

Germ cell mutagenicity No data available(Ethanol)

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

Specific target organ toxicity - single exposure

No data available(Ethanol)

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available(Ethanol)

Additional Information

RTECS: KQ6300000 Central nervous system depression, narcosis, Damage to the heart., To the best of our knowledge, the

chemical, physical, and toxicological properties have not been thoroughly investigated.(Ethanol)

## Section 12 - Ecological Information

### 12.1 Toxicity

Toxicity to fish

LC50 - Pimephales promelas (fathead minnow) - 14,200 mg/l - 96 h(Ethanol)

Toxicity to daphnia and other aquatic invertebrates

LC50 - Ceriodaphnia dubia (water flea) - 5,012 mg/l - 48 h(Ethanol)

NOEC - Daphnia magna (Water flea) - 9.6 mg/l - 9 d(Ethanol)

Toxicity to algae

EC50 - Chlorella vulgaris (Fresh water algae) - 275 mg/l - 72 h(Ethanol) (OECD Test Guideline 201) 12.2 Persistence and degradability

Biodegradability Result: 95 % - Readily biodegradable

12.3 Bioaccumulative potential Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

12.4 Mobility in soil

No data available(Ethanol)

12.5 Results of PBT and vPvB assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects No data available

## Section 13 - Disposal Considerations

### 13.1 Waste treatment methods Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber. Contaminated packaging

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Dispose of as unused product.

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### Section 14 - Transport Information

14.1 UN number		
ADR/RID: 1170	IMDG: 1170	IATA: 1170
14.2 UN proper shipping name		IATA:
ADR/RID: ETHANOL	IMDG: ETHANOL	Ethanol
14.3 Transport hazard class(es)		
ADR/RID: 3	IMDG: 3	IATA: 3
14.4 Packaging group		
ADR/RID: II	IMDG: II	IATA: II
14.5 Environmental hazards	IMDG Marine pollutant:	
ADR/RID: no	no	IATA: no
14.6 Special precautions for user		
No data available		

### Section 15 - Regulatory Information

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

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

no data available

**Chemical Safety Assessment** no

data available

### Section 16 - Other Information

Full text of H-Statements referred to under sections 2 and 3.

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation. Further information



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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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