

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name: Ethanol Absolut 99.9%****Article number:** SDB-001**CAS Number:**

64-17-5

EC number:

200-578-6

Index number:

603-002-00-5

Registration number 01-2119457610-43-XXXX**1.2 Relevant identified uses of the substance or mixture and uses advised against****Application of the substance / the mixture**

Raw material for medical preparations, cosmetic products, fuels, printing inks, antifreeze, combustible materials, adhesives, spirits production and food disinfection

1.3 Details of the supplier of the safety data sheet**Manufacturer/Supplier:****AustrAlco**

Österreichische Agrar-Alkohol HandelsgesmbH

Bahnstrasse 16

A-2104 Spillern

T: +43 2266 81107 0

Further information obtainable from:

Johannes Heil

Email: heil@australco.at**1.4 Emergency telephone number:**

+43 2266 8110716

Available during office hours:

Mo – Th: 07:30 - 12:00 h and 12:30 - 16:30 h

Fr: 07:30 - 12:00 h and 12:30 - 15:00 h

Call the national emergency number!**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Eye Irrit. 2 H319 Causes serious eye irritation.

Additional information: For the wording of the hazard categories, see section 16.**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008**

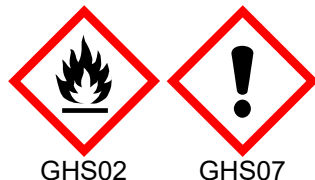
The substance is classified and labelled according to the CLP regulation.

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Trade name: Ethanol Absolut 99.9%

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Hazard pictograms



Signal word Danger

Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

Precautionary statements

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

P233 Keep container tightly closed.

P280 Wear eye protection / face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

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

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

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

Results of PBT and vPvB assessment

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

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

Determination of endocrine-disrupting properties

The product does not contain substances with endocrine-disrupting properties ≥ 0.1 % (w/w).

SECTION 3: Composition/information on ingredients

3.1 Substances

CAS No. Description

64-17-5 ethanol

Identification number(s)

EC number: 200-578-6

Index number: 603-002-00-5

Specific concentration limits Eye Irrit. 2; H319: C ≥ 50 %

Dangerous components:

[% (w/w)]

CAS: 64-17-5	Ethanol	90 - 100%
EINECS: 200-578-6	 Flam. Liq. 2, H225	
Index number: 603-002-00-5	 Eye Irrit. 2, H319	
Reg.nr.: 01-2119457610-43-XXXX	Specific concentration limit: Eye Irrit. 2; H319: C ≥ 50 %	

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Trade name: Ethanol Absolut 99.9%

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Additional information: For the wording of the listed hazard phrases refer to section 16.**SECTION 4: First aid measures****4.1 Description of first aid measures****General information:**

In case of discomfort or doubt, seek medical advice.

If unconscious, use a stable lateral position and do not administer anything through mouth.

Immediately remove any clothing soiled by the product.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact:

Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

Seek medical treatment in case of complaints.

After eye contact:

Rinse opened eye for several minutes under running water.

Remove contact lenses, if present and easy to do. Continue rinsing.

Seek medical treatment.

After swallowing:

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

Depending on the condition of the patients, the doctor must assess the symptoms and the overall general condition.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

Combustible.

Vapours are heavier than air and spread over the ground.

Vapours can travel to a source of ignition and flash back

Fumes can combine with air to form an explosive mixture.

In case of fire, the following can be released:

CO_x

5.3 Advice for firefighters**Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information Cool endangered receptacles with water spray.

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Trade name: Ethanol Absolut 99.9%

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

Restricted access to the affected area until cleaning work is completed.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Avoid contact with skin and eyes.

Do not breathe vapour/spray.

Keep away from ignition sources.

6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Risk of explosion.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding, inert material (sand, diatomite, acid binders, universal binders).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Keep receptacles tightly sealed.

Avoid contact with skin and eyes.

Avoid breathing mist/vapours/spray.

Use personal protective equipment as required.

Observe protective measures and safety instructions.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Ground and bond container and receiving equipment.

Fumes can combine with air to form an explosive mixture.

Danger of explosion if fluid enters the sewage system.

7.2 Conditions for safe storage, including any incompatibilities**Storage:****Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Ensure adequate ventilation.

Store in accordance with local/regional/national/international regulations.

Packaging materials: tanks/containers made of stainless steel, titanium, iron, carbon steel, polypropylene, ceramics, glass, nylon

To be avoided: Natural rubber, PVC, methylmethacrylate plastics, polyamides, zinc, brass, aluminium in certain conditions

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Trade name: Ethanol Absolut 99.9%

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Information about storage in one common storage facility:

Store away from oxidising agents.

Do not store together with acids.

Do not store together with alkalis (caustic solutions).

Store away from incompatible materials.

Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Recommended storage temperature: 15 - 25 °C**Storage class:** 3**7.3 Specific end use(s)** No further relevant information available.*** SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:****CAS: 64-17-5 Ethanol**

MAK (Austria)	Short-term value: 3800 mg/m ³ , 2000 ppm Long-term value: 1900 mg/m ³ , 1000 ppm
AGW (Germany)	Long-term value: 380 mg/m ³ , 200 ppm 4(II);DFG, Y
LEP (Spain)	Short-term value: 1910 mg/m ³ , 1000 ppm s
VLEP (France)	Short-term value: 9500 mg/m ³ , 5000 ppm Long-term value: 1900 mg/m ³ , 1000 ppm
TWA (Italy)	Short-term value: 1884 mg/m ³ , 1000 ppm A3
WGW (Netherland)	Short-term value: 1900 mg/m ³ , 1000 ppm Long-term value: 260 mg/m ³ , 137 ppm

Regulatory information

MAK (Austria): GKV 2021, 330. Verordnung, 02.12.2024, Teil 2

AGW (Germany): TRGS 900

LEP (Spain): Límites de exposición profesional para agentes químicos

VLEP (France): ED 1487 26.04.2024

TWA (Italy): Valori Limite di Soglia

WGW (Netherland): Grenswaarden gezondheidsschadelijke stoffen

DNELs**CAS: 64-17-5 Ethanol**

Inhalative	Long-term exposure - systemic effects	114 mg/m ³ (consumer) 380 mg/m ³ (workers)
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Trade name: Ethanol Absolut 99.9%

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PNECs**CAS: 64-17-5 Ethanol**

fresh water	960 µg/l
sea water	790 µg/l
intermittent release (fresh water)	2.75 mg/l
STP	580 mg/l
sediment (fresh water)	3.6 mg/kg dw
sediment (sea water)	2.9 mg/kg dw
soil	0.63 mg/kg dw
oral	0.38 mg/kg food

Additional information: The lists valid during the making were used as basis.**8.2 Exposure controls****Appropriate engineering controls**

No further data; see section 7.

Technical measures and the use of suitable working methods take priority over the use of personal protective equipment.

Individual protection measures, such as personal protective equipment**General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Do not eat or drink while working.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Immediately remove all soiled and contaminated clothing.

Ensure good ventilation/exhaustion at the workplace.

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Respiratory protection:

If vapours/aerosols and/or inadequate ventilation are present, respiratory protection must be worn.

Filter type A

Hand protection

Protective gloves

EN 374

Material of gloves

Butyl rubber gloves; recommended material thickness: 0.7 mm, permeation time: >480 min min

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

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Trade name: Ethanol Absolut 99.9%

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Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection

Tightly sealed goggles

EN 166

Body protection: Protective work clothing**Environmental exposure controls** Do not allow to enter sewers/ surface or ground water.**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****General Information**

Physical state	Liquid
Colour:	Colourless
Odour:	Alcohol-like
Odour threshold:	No information available.
Melting point/freezing point:	No information available.
Boiling point or initial boiling point and boiling range	78 °C
Flammability	Not applicable
Lower and upper explosion limit	
Lower:	3.5 Vol %
Upper:	15 Vol %
Flash point:	≥12 °C
Decomposition temperature:	No information available.
pH	Not determined
Viscosity:	
Kinematic viscosity	No information available.
Dynamic:	No information available.
Solubility	
water:	Fully miscible.
Partition coefficient n-octanol/water (log value)	

64-17-5 Ethanol -0,35 log Kow

Vapour pressure at 20 °C:	≤ 59 hPa
Vapour pressure at 50 °C:	≤ 280 hPa
Density and/or relative density	
Density at 20 °C:	0.79 - 0.81 g/cm ³
Vapour density	No information available.

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Trade name: Ethanol Absolut 99.9%

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9.2 Other information**Appearance:****Form:** Fluid**Important information on protection of health and environment, and on safety.****Ignition temperature:**

64-17-5 Ethanol 363 - 425 ° C

Explosive properties:

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Organic solvents:

90 – ≤ 100 %

Water:

≤ 9.0 %

Solids content:

0.0 %

Change in condition**Oxidising properties**

None.

Evaporation rate

No information available.

Information with regard to physical hazard classes**Explosives**

void

Flammable gases

void

Aerosols

void

Oxidising gases

void

Gases under pressure

void

Flammable liquids

Highly flammable liquid and vapour.

Flammable solids

void

Self-reactive substances and mixtures

void

Pyrophoric liquids

void

Pyrophoric solids

void

Self-heating substances and mixtures

void

Substances and mixtures, which emit flammable**gases in contact with water**

void

Oxidising liquids

void

Oxidising solids

void

Organic peroxides

void

Corrosive to metals

void

Desensitised explosives

void

SECTION 10: Stability and reactivity**10.1 Reactivity** Fumes can combine with air to form an explosive mixture.**10.2 Chemical stability** No decomposition if used and stored according to specifications.**10.3 Possibility of hazardous reactions**

Violent reactions with:

Alkali metals, alkaline earth metals, acetic anhydride, peroxides, phosphorus oxides, strong oxidants, nitric acid, nitrate, perchlorates, => explosion hazard

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Trade name: Ethanol Absolut 99.9%

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10.4 Conditions to avoid

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

10.5 Incompatible materials:

Strong oxidising agents (strong mineral acids, nitric acid, peroxides, perchlorates, etc.), alkali metals, alkaline earth metals.

10.6 Hazardous decomposition products:

No decomposition if used and stored according to specifications.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity** Based on available data, the classification criteria are not met.**LD/LC50 values relevant for classification:****CAS: 64-17-5 Ethanol**

Oral LD50 10,470 mg/kg (rat)

Inhalative LC50/4 h 124.7 mg/l (rat)

Primary irritant effect:**Skin corrosion/irritation** Based on available data, the classification criteria are not met.**Serious eye damage/irritation**

Causes serious eye irritation.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.**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.**11.2 Information on other hazards****Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information**12.1 Toxicity****Aquatic toxicity:****CAS: 64-17-5 Ethanol**

EC50 (48 h) 12,340 mg/l (daphnia) (Daphnia magna)

LC50 (96 h) 12,900 – 15,300 mg/l (fish) (Onchorhynchus mykiss)

12.2 Persistence and degradability

Easily biodegradable

64-17-5 Ethanol 95 % (20 d)

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Trade name: Ethanol Absolut 99.9%

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12.3 Bioaccumulative potential

Due to the distribution coefficient n-octanol/water a worth-mentioning accumulation in organisms is not expected.

64-17-5	Ethanol	-0,35 log Kow
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12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

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

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

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects**Additional ecological information:****General notes:**

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Only dispose of product residues via authorised companies according to local legislation.

European waste catalogue

Notes: The European Waste Catalogue (EWC) classifies waste materials and categorises them according to what they are and how they were produced. This may cause other classifications. The final decision belongs to the last user.

14 06 03*	other solvents and solvent mixtures
16 03 05*	organic wastes containing hazardous substances
20 01 13*	solvents

Uncleaned packaging:**Recommendation:**

Dispose of packaging according to regulations on the disposal of packagings.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information**14.1 UN number or ID number**

ADR/RID/ADN, IMDG, IATA

UN1170

14.2 UN proper shipping name

ADR/RID/ADN

1170 ETHANOL (ETHYL ALCOHOL)

IMDG

ETHANOL (ETHYL ALCOHOL)

IATA

ETHANOL

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Trade name: Ethanol Absolut 99.9%

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14.3 Transport hazard class(es)

ADR/RID/ADN, IMDG, IATA



Class	3 Flammable liquids.
Label	3
14.4 Packing group	
ADR/RID/ADN, IMDG, IATA	II
14.5 Environmental hazards:	Not applicable
14.6 Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code):	33
EMS Number:	F-E,S-D
Stowage Category	A
14.7 Maritime transport in bulk according to IMO instruments	Not applicable

Transport/Additional information:**ADR/RID/ADN**

Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
Transport category	2
Tunnel restriction code	D/E

IMDG

Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1170 ETHANOL (ETHYL ALCOHOL), 3, II

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Directive 2012/18/EU**

Named dangerous substances - ANNEX I Substance is not listed.

Seveso category P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

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Trade name: Ethanol Absolut 99.9%

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DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

REGULATION (EU) 2019/1148**Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

National regulations:**Information about limitation of use:** Employment restrictions concerning juveniles must be observed.**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

Relevant phrases

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

Training hints

Regular training of staff involved in the transport of dangerous goods (in accordance with Chapter 1.3 ADR).

Before handling, storage or use for the first time, employees must be informed about the properties of the substance and about measures taken to ensure safety and environmental protection.

Department issuing SDS:

UmEnA GmbH

<http://umena.at>Email: office@umena.at**Date of previous version:** 11.12.2024**Version number of previous version:** 1.2**Abbreviations and acronyms:**

ADR: Accord relatif au transport international 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

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Trade name: Ethanol Absolut 99.9%

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GHS: Globally Harmonised 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 (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

*** Data compared to the previous version altered.**