



# Safety Data Sheet

according to Regulation (EC) No 1907/2006

Revision date: 07.09.2018  
Date of entry into force: 07.09.2018

Version: 9  
Replaces version: 1.3

## AHD 2000 and AHD 2000 gefärbt

This is the English translation of the German SDS (for Germany).

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

#### 1.1 Product identifier

**Trade name: "AHD 2000" oder "AHD 2000 gefärbt"**  
(English translation of "gefärbt" is coloured)

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

**Use of the mixture:**

Disinfectant for the hands and the skin

In EU countries where the product is not registered as a medicinal product:

For professional use

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

**Department providing information:** Department of Science and Technology Berlin

E-mail: [kontakt@lysoform.de](mailto:kontakt@lysoform.de)

Telephone: +49 30 77992-226

**Supplier (distributor):**

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#### 1.4 Emergency telephone number Germany

Munich toxicological department

Klinikum rechts der Isar

Ismaninger Str. 22, 81675 Muenchen

Tel.: +49 89 19240

Fax: +49 89 4140-2467

### Section 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**CLP classification (EG) Nr. 1272/2008:**

Flam. Liq.: Kat.2 H225

Eye Irrit.: Kat.2 H319



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### 2.2 Label elements

In EU countries where the product is registered as a medicinal product, no labelling is made according to the CLP Regulation (as indicated here).

**Symbols und 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.

P305 + IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if easy

P351 + to do. Continue rinsing.

P338

P337 + If eye irritation persists: Get medical advice.

P313

**Hazardous ingredient for labelling:**

Ethanol

### 2.3 Other hazards

The mixture does not meet the criteria for classification as PBT or vPvB.

In exceptional situations (for example: fumigation, effect of heat or leakage of large amounts in unventilated spaces) it may form explosive air mixtures.

## Section 3: Composition/information on ingredients

### 3.1 Substances

This product is a mixture.

### 3.2 Mixtures

**Chemical characterization:**

**Ethanol**

EG-No: 200-578-6 CAS-No: 64-17-5 REACH-Reg.no: 01-2119457610-43

Quantity : 70 - 80 %

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

Eye Irrit.: Kat.2 H319 Causes serious eye irritation.



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### Section 4: First aid measures

#### 4.1 Description of first aid measures

**General information:**

Immediately seek medical advice. Show the Safety Data Sheet, container or label.

**Inhalation:**

Supply fresh air.

**Skin contact:**

Not applicable

**Eye contact:**

Rinse opened eye for several minutes with plenty of drinking water. If eye irritation persists seek medical advice.

**Ingestion:**

Do not induce vomiting. Rinse mouth with drinking water and give plenty of water to drink.

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

Acute: mucous membrane irritation

Delayed: After oral absorption, interference with the central nervous system, e.g. Dizziness and narcotic effects occur. Facial and skin redness by dilation of the blood vessels.

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

No information

### Section 5: Firefighting measures

#### 5.1 Extinguishing media

Water spray, carbon dioxide, dry powder, alcohol-resistant foam

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

Alcoholic vapours are heavier than air and may spread along floors.

During heating or in case of fire poisonous gas may develop:

For example: carbon monoxide, carbon dioxide and explosive vapour / air mixtures

#### 5.3 Advice for firefighters

Wear self-contained breathing apparatus. Cool endangered containers or persons with water spray.

### Section 6: Accidental release measures

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

Wear suitable gloves and protective clothing. Keep ignition sources away - do not smoke.

Ensure adequate ventilation or wear respiratory protection (Filter A - EN 14387).

#### 6.2 Environmental precautions

Do not allow to reach sewage system / surface or ground water.



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

Wipe up with absorbent material (cloth, fleece, sand, universal binders).  
Larger quantities: Apply suction cleaning.

### 6.4 Reference to other sections

Safe handling (section 7), personal protective equipment (section 8) and disposal considerations (section 13)

## Section 7: Handling and storage

### 7.1 Precautions for safe handling

#### Notes for safe handling:

Keep container tightly closed. Ensure good ventilation / exhaustion at the workplace. Caution near alcohol-sensitive materials (for example: lacquered jewellery or watches of certain plastic).

#### Notes on general hygiene measures at the workplace:

Keep away from food. Take off all contaminated clothing immediately. Avoid contact with eyes.

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

#### Requirements for storage rooms and containers

Keep cool, but frost-free and not over 25 °C, well ventilated and dry. Keep out of the reach of children. Store in the original container. For transport conditions see section 14 above.

#### Further information about storage conditions

Keep away from heat and direct sunlight.

Keep separate from food.

#### Information about fire and explosion protection

Can form explosive gas-air mixtures. Good ventilation, especially at floor level. Vapours are heavier than air. Keep ignition sources away - do not smoke. Take measures to prevent electrostatic charging.

**Storage class:** 3 (TRGS 510)

### 7.3 Specific end use(s)

No specific end use known.

## Section 8: Exposure controls/personal protection

### 8.1 Control parameters

Ingredient	CAS-No	Value	Base
Ethanol	64-17-5	Occupational Exposure Limits: 380 mg/m <sup>3</sup> , 200 ml/m <sup>3</sup> 4(II) DFG, Y	TRGS 900

#### Relevant DNEL (Derived No Effect Level) - values:

##### Ethanol:

Workers:

Long-term exposure - systemic effects, dermal: 343 mg/kgBW/d

Long-term exposure - systemic effects, Inhalation: 950 mg/m<sup>3</sup>

Short-term exposure - local effects, Inhalation: 1900 mg/m<sup>3</sup>



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### Relevant PNEC (Predicted No Effect Concentration) - values:

#### Ethanol:

Fresh water: 0,96 mg/l  
Seawater: 0,79 mg/l  
Sewage plant: 580 mg/l

Soil: 0,63 mg/kg  
Sediment (fresh water): 3,6 mg/kg  
Sporadic release: 2,75 mg/l

## 8.2 Exposure controls

### Individual protection measures - Personal protective equipment:

#### General health and safety measures

Keep away from foodstuff, beverages and feed. Take off dirty, soaked clothes immediately. Avoid contact with eyes.

#### Respiratory protection

With good room ventilation, respiratory protection is not necessary.  
In exceptional circumstances a respirator with filter A (EN 14387) may be used.

#### Hand protection

In order to avoid skin discoloration in the medical staff gloves should be worn when working with the coloured preparation. Otherwise not required.

#### Skin protection

In order to prevent skin irritations in the professional field, the following is - regardless of the actual contact with disinfectants - recommended:

- Fast skin penetrating care cream in between if needed.
- A greasy cream after washing at the end of work or before work breaks.

#### Eye / face protection

Normally not required.

## Section 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

If no information on the mixture is available, relevant information on ingredients may also be provided in the form "ingredient: indication".

#### Appearance

- Physical state:	Liquid
- Colour:	Colourless (coloured preparation red)
Odour:	Characteristic
Odour threshold:	Ethanol: 19 – 93 mg/m <sup>3</sup> (0.001 - 0.0048 Vol.%)
pH at 20 °C:	Ca. 7
Melting point:	Ethanol: -114,5 °C (OECD 102)
Initial boiling point / boiling range:	Ethanol: 78 °C
Flash point:	19 °C, coloured 19.5 °C (DIN 51755)
Evaporation rate:	Not determined
Flammability:	Not determined
Explosion limits in air:	Ethanol: 2,5 – 15 % (Vol.%)
Vapour pressure:	Ethanol: 59 hPa / 20 °C
Vapour density, relative (air = 1):	Ethanol: 1.59
Density at 20 °C:	Ca. 0.85 g/cm <sup>3</sup>



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Solubility in water:	Any
Partition coefficient n-octanol / water:	For a mixture not applicable.
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not applicable, no known decomposition
Viscosity:	Not determined
Oxidising properties:	Not determined

### 9.2 Other information

Further physical and chemical data have not been determined.

## Section 10: Stability and reactivity

### 10.1 Reactivity

No hazardous reactions if stored and used as described.

### 10.2 Chemical stability

No decomposition if stored and used as described.

### 10.3 Possibility of hazardous reactions

No hazardous reactions if stored and used as described.

### 10.4 Conditions to avoid

See section 7

### 10.5 Incompatible materials

No incompatible materials known.

### 10.6 Hazardous decomposition products

No decomposition if stored and used as described.

## Section 11: Toxicological information

### 11.1 Information on toxicological effects

The active compound has been extensively studied with regard to the toxic profile. The exposure is safe if handled as prescribed. In consideration of the mixture no deviant results are expected. The mixture was therefore not examined in all categories. For toxicological effects use the information on hazardous substance.



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### 11.1.1 For the mixture:

#### Acute toxicity

LD/LC<sub>50</sub>:

Dermal: not toxic (>10ml/kg rat)

Oral: not toxic (> 2g/kg rat)

#### Skin corrosion/irritation

Serious eye irritation

#### Serious eye damage/irritation

No data available

#### Respiratory or skin sensitisation

No data available

#### Germ cell mutagenicity

No gene mutations, AMES test

#### Carcinogenicity

No chromosome mutations, micronucleus test

#### Reproductive toxicity

No data available

#### STOT-single exposure

No data available

#### STOT-repeated exposure

No data available

#### Aspiration hazard

No data available

#### Symptoms and effects (delayed and chronic) with details of the routes of exposure

#### Also: information on toxicokinetics, metabolism and distribution

No data available

### 11.1.2 For the substance:

#### Ethanol

##### Primary irritant effect:

Eyes: irritant (OECD- guideline 405)

Skin: not irritant (OECD- guideline 404)

##### Sensitization:

No sensitization (OECD 429 (Skin Sensitization - Local Lymph Node Assay))

Germ cell mutagenicity : It is not considered to be mutagenic.  
OECD 471 / 475 / 476 / 473 / 471

Teratogenicity : No effects on or through the lactation

##### Symptoms:

Shortness of breath, drowsiness, unconsciousness, drop in blood pressure, vomiting, coughing, headache, intoxication, drowsiness, mucosal irritation, dizziness, nausea

##### Experiences with humans:

Excessive use of alcohol during pregnancy induces Foetal Alcohol Syndrome (reduced birth weight, physical and mental disorders).



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### Section 12: Ecological information

The mixture was not tested for certain effects. Information on the hazardous substance should be used.

#### 12.1 Toxicity

##### Ethanol

Toxicity:

LC<sub>50</sub> in 96 h: 13000 mg/l (Oncorhynchus mykiss) OECD 203 (Fish, Acute Toxicity Test)

LC<sub>50</sub> in 48 h: 12340 mg/l (Daphnia magna)

#### 12.2 Persistence and degradability

##### Ethanol

97% OECD 301 B (Ready Biodegradability - CO<sub>2</sub> Evolution Test)

#### 12.3 Bioaccumulative potential

##### Ethanol

BCF: 3.2 mg/l Log Pow: -0.32

#### 12.4 Mobility in soil

##### Ethanol

No data available

#### 12.5 Results of PBT and vPvB assessment

The mixture does not contain any substances that are assessed as PBT or vPvB.

#### 12.6 Other adverse effects

The mixture is classified as water hazard class 1 (by German AwSV).

### Section 13: Disposal considerations

#### 13.1 Waste treatment methods

##### Treatment of the mixture

Disposal in compliance with local regulations. Waste should not be disposed of via wastewater.

##### Treatment of contaminated packaging

Completely emptied containers can be recycled.

##### Waste code according to AVV

07 06 04 for the product

15 01 02 for the primary packaging

##### Relevant EU or other regulations

German law: KrW-/AbfG (Kreislaufwirtschafts- und Abfallgesetz)





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### Section 14: Transport information

Evaluations of transport stability testing of our drugs have shown that in temperate climates, no specific transport conditions (e.g. temperature) must be adhered to and recorded according to the Good Distribution Practice.

**14.1 UN-number:** 1170

**14.2 Proper shipping name**

All modes of transport: ETHANOL SOLUTION

**14.3 Transport hazard class(es)**

Land: ADR/RID and GGVS/GGVE class: 3  
Tunnel restriction code: D/E

Sea: IMDG/GGV Sea-class: 3  
EMS-number: F-E, S-D

Air: ICAO-TI / IATA-DGR-class: 3

**14.4 Packing group**

II

**14.5 Environmental hazards**

**Labelling environmentally hazardous substances**

ADR/RID / IMDG-Code / ICAO-TI / IATA-DGR: No  
IMDG-Code: Marine Pollutant: No

**14.6 Special precautions for user (transport company)**

No

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

No transport in bulk

### Section 15: Regulatory information

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

**EU-regulations:**

1907/2006 REACH / 1272/2008 CLP GHS / 528/2012 Biocidal products / 98/24/EG Risks related to chemical substances / 648/2004 Detergents

**German regulations:**

Chemikaliengesetz ChemG / Gefahrstoffverordnung GefStoffV / TRGS und Bekanntmachungen / Betriebssicherheitsverordnung BetrSichV / Jugendarbeitsschutzgesetz / Mutterschutzgesetz / Guidelines Berufsgenossenschaften

**Other information:**

Authorization Germany: Medicinal product in accordance with AMG § 2 (1).

**15.2 Chemical safety assessment**

For this mixture no chemical safety assessment has been carried out.



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### Section 16: Other information

#### Changes since the publication of the previous version

Version 9: Change of Format / Number of the SDS is similar to the German SDS /  
Section 8: Occupational Exposure Limit of Ethanol

#### Literature and data sources

TRGS / Gestis / professional associations / MSDS of ingredients

#### Methods in accordance with Article 9 of Regulation (EC) no. 1272/2008 used to evaluate the information for the purpose of classification.

Classification was based on the components and the physical and chemical properties.

The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product with regard to the safety requirements. The information should not be regarded in any way as a description of the nature of the goods (product specification). Any agreed property or the suitability of the product for a specific purpose can not be derived from our information in the Safety Data Sheet. We will advise you whether, the preparation is suitable for a defined purpose. Any proprietary rights and existing laws and regulations must be observed by the recipient of our product (responsibility of the recipient).