

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifiers

Product name: Ethanol 20 %
Product number: CT-89500

Brand: PAN-Celltech

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

Identified uses: Laboratory chemicals, Manufacture of substances

1.3. Details of the supplier of the safety data sheet

Company PAN-Celltech GmbH
Am Gewerbepark 6
94501 Aidenbach
GERMANY

Telephone: +49-(0)8543-6016-30
Fax: +49-(0)8543-6016-49
E-mail: info@pan-celltech.de

1.4. Emergency telephone number

Emergency phone: +49-(0)8543-6016-30 or +49 151 51557123

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP).
Flammable liquids Flam. Liq. 3 H226 Flammable liquid and vapour

2.2. Label Elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP).

Hazard pictograms:



Signal word: Warning

Hazard statements: H226 Flammable liquid and vapour.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment.

P280	Wear protective gloves/Protective clothing/eye protection/face protection/hearing protection/...
P303 + P361 + P353	IF IN SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water (or shower).
P370 + P378	In case of fire: Use... to extinguish.

2.3. Other hazards
None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Synonyms:

Not applicable, product is a mixture.

3.2. Mixtures

Chemical name	CAS-No.	Classification	Concentration (% w/w)
Ethanol absolut reinst EP, USP (pharma grade)	64-17-5	H225 Flam. Liq 2 H319 Eye Irrit. 2	10 - 20

4. FIRST AID MEASURES

4.1. Description of first aid measures

4.1.1. General notes

4.1.2. If inhaled

If breathed in, move person into fresh air. If breathing becomes difficult, call a physician. If not breathing, give artificial respiration.

4.1.3. In case of skin contact

In case of contact, immediately wash skin with soap and copious amounts of water.

4.1.4. In case of eye contact

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician if symptoms persist.

4.1.5. If swallowed

If swallowed, wash out mouth with water provided person is conscious. Call a physician if symptoms persist.

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

No information available.

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

No information available.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

5.1.1. Suitable extinguishing media

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

5.1.2. Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Carbon oxides

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors, mist or gas.

6.2. Environmental precautions

Do not let product enter drains

6.3. Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal.

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

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Normal measures for preventive fire protection.

Informations on protection measures are listed in section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature: +15 °C - +25 °C

Storage class 3: Flammable liquids

7.3. Specific end use(s)

No further information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limit values (TRGS 900):

Component	CAS-No.	Limit value type	Value	Peak limitation	Remarks
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Ethanol	64-17-5	AGW TWA	200 ppm (380 mg/m ³)	800 ppm (1.520 mg/m ³)	DFG, Y
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8.2. Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

Personal protective equipment

Eye/face protection

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

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without 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. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Use impervious 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

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance Form:	liquid
Odour	no data available
Odour Threshold	no data available
pH	no data available
Melting point/freezing point	no data available
Initial boiling point and boiling range	no data available
Flash point	no data available
Evaporation rate	no data available
Flammability	no data available
Upper/lower flammability or explosive limits	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Auto-ignition temperature	no data available
Decomposition temperature	no data available

	Viscosity	no data available
	Explosive properties	no data available
	Oxidizing properties	no data available
9.2.	Other information	
	No data available.	

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**
No data available
- 10.5. Incompatible materials**
Strong oxidizing agents
- 10.6. Hazardous decomposition products**
Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

- 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**
 - Acute toxicity** no data available
 - Skin corrosion/irritation** May cause skin irritation.
 - Serious eye damage/eye irritation** May cause eye irritation.
 - Inhalation:** Material may be irritating to mucous membranes and upper respiratory tract.
May be harmful if inhaled.
 - Ingestion:** May be harmful if swallowed.
 - Respiratory or skin sensitization** no data available
 - Germ cell mutagenicity** no data available
 - 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** no data available
 - Specific target organ toxicity - single exposure** no data available
 - Specific target organ toxicity - repeated exposure** no data available
 - Aspiration hazard** no data available
- 11.2. Information on other hazards**
 - RTECS: Not available
 - To the best of our knowledge, the chemical, physical, and toxicological properties have not been

thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

No data available

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product/unused product

Recommendation:

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Recommendation:

Dispose of as unused product.

Hazardous waste according to Directive 2008/98/EC (Abfallrahmenrichtlinie)

HP 3 Flammable

14. TRANSPORT INFORMATION

14.1. UN number or ID number

ADR/RID: 1170

IMDG: 1170

IATA: 1170

14.2. UN Proper shipping name

ADR/RID: ETHANOL
SOLUTION

IMDG: ETHANOL
SOLUTION

IATA: ETHANOL
SOLUTION

14.3. Transport hazard class(es)

ADR/RID: 3 Flammable
liquids

IMDG: 3 Flammable
liquids

IATA: 3 Flammable
liquids

14.4. Packing group

ADR/RID: III

IMDG: III

IATA: III

	Substances presenting lower danger	Substances presenting lower danger	Substances presenting lower danger
			
Class. Code	F1		
Hazard Identifikation			
Number	30		
Hazard Label	3	3	
Tunnel Restriction			
Code:	(D/E)	EMS Code: F-E, S-D	
Limited quantity			Y344
14.5. Environmental hazards			
	ADR/RID: no	IMDG Marine pollutant: no	IATA: no
14.6. Special precautions for user		No data available	
14.7. Maritime transport in bulk according to IMO instruments			
	No data available		

15. REGULATORY INFORMATION

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

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

EU Regulation

Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC.

Hazard Classes:

- P5a Flammable liquids, Category 1 or 2
- P5b Flammable liquids
- P5c Flammable liquids, Categories 2 or 3, not classified under P5a and P5b

National regulations (Germany)

Beschäftigungsbeschränkungen nach dem Jugendarbeitsschutzgesetz (94/33/EG).

Beschäftigungsbeschränkungen nach der Mutterschutzrichtlinie (92/85/EWG).

Seveso III Directive (since the German Störfallverordnung is the national implementation of this European Union directive)

Hazard Classes:

- P5a Flammable liquids, Category 1 or 2
- P5b Flammable liquids
- P5c Flammable liquids, Categories 2 or 3, not classified under P5a and P5b

Technische Regel für Gefahrstoffe (TRGS510) – Entzündbare Flüssigkeiten (H226) LGK 3.

Water hazard class WGK 1 : Slightly hazardous to water
Classification according to Annex 1 of the Ordinance on Facilities for Handling Substances
Hazardous to Water (AwSV) self-classification.

15.2. Chemical safety assessment

No data available

16. OTHER INFORMATION

Further information

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. PAN-Celltech GmbH shall not be held liable for any damage resulting from handling or from contact with the above product. See www.pan-biotech.com or reverse side of invoice or packing slip for additional terms and conditions of sale.