SAFETY DATA SHEET

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

1.1. Product identifiers

Product name: Hydrocortisone, 1 mg/ml in Ethanol
Product number: P07-15010

Brand: PAN-Biotech

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-Biotech GmbH
Am Gewerbepark 6
94501 Aidenbach
GERMANY

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

1.4. Emergency telephone number

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

2. HAZARDS INDENTIFICATION

2.1. Classification of the substance or mixture

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

Flammable liquids	Flam. Liq.2	H225	Highly flammable liquid and vapour.
Reproductive toxicity	Repr.1A	H360Df	May damage the unborn child. Suspected of damaging fertility.

2.2. Label Elements

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

Pictgrams:


GHS02

GHS08

Signalwort: Danger

Hazard Statements:	H225	Highly flammable liquid and vapour.
	H360Df	May damage the unborn child. Suspected of damaging fertility.
Precautionary Statements:	**P**210	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/hearing protection/....
	P303+P361+ P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
	P308+P313	IF exposed or concerned: Get medical advice/attention.
	P370+P378	In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

This mixture contains component(s) of unknown acute dermal toxicity.
Contains components with unknown hazards to the aquatic environment."

2.3. Other hazards

none.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Synonyme:

Not applicable, product is a mixture.

3.2. Mixtures

Chemical Name	CAS-No.	Classification	Concentration
Ethanol absolute pure	64-17-5	H225: Flam. Liq.2  GHS02 ATE (Oral): 10.470 mg/kg ATE (Einatmen, Dampf): 124,7 mg/L	< 100 %
Hydrocortisone	50-23-7	H360Df: Repr. 1A H373: STOT RE 2  GHS08 ATE (Oral): 5000 mg/kg	≥ 0,1 %

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.
Information 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: -20 °C

Storage class (LGK) according to TRGS 510: LGK 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
Ethanol absolute pure	64-17-5	AGW (TWA)	200 ppm (380 mg/m³)	800 ppm 1520 mg/m³	DFG, Y

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

Highly flammable liquid and vapour.

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

Toxic gases/vapours

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

Chemical name	**CAS-No.**	**LC/EC**
Ethanol absolute pure	64-17-5	LC_{50}: 11200 – 14200 mg/L 4d (Fish, *Pimephales promelas*) EC_{50}: 5012 mg/L 2 d (Crustaceans, *Daphnia magna*) EC_{50}: 275 mg/L 3d (Aquatic plant, *Chlorella vulgaris*)
Hydrocortisone	50-23-7	EC_{50}: >100 mg/L 2 d (Crustaceans, *Daphnia magna*) OECD Prüfrichtlinie 202

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.
In accordance with Directive 2008/98/EC (Waste Framework Directive
HP 3 Flammable

HP 10 Reproductive toxicity]

Contaminated packaging

Recommendation:

Dispose of as unused product.

Other disposal recommendations

Additional information

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
	 3	 3	 3
14.4.	**Packing group**		
	ADR/RID: II Medium danger	IMDG: II Medium danger	IATA: II Medium danger
14.5.	**Environmental hazards**		
	ADR/RID: no	IMDG: Marine pollutant: no	IATA: no
14.6.	**Special precautions for user**		
	ADR/RID: 144/601	IMDG: 144	IATA: A3/A58/A180
	Limited Quantities: ADR/RID: 1 L	IMDG: 1 L	IATA: Y341
	Excepted Quantities ADR/RID: E2	IMDG: E2	IATA: E2
	Kemler Number ADR/RID: 33		
	Classification Code: ADR/RID: F1 Flammable		
	Tunnel restriction code: ADR/RID: (D/E)		
	Emergency Schedules	IMDG: F-E, S-D	

Comments for

AND/RID:
Limited Quantities (LQ): This product meets the requirements of Chapter 3.4 ADR for inner packagings up to 10 ml and can be transported as Limited Quantity in composite packagings.
IMDG:
Limited Quantities (LQ): Transport permitted in accordance with Chapter 3.4 IMDG Code. Inner packaging max. 10 ml. Declaration as 'LIMITED QUANTITY' required in the shipping documents.

IATA:
Excepted Quantities (EQ): Product meets the requirements for Excepted Quantities under code E2 (max. 30 ml inner packaging / 500 ml outer packaging). Alternatively, Limited Quantities (LQ) apply according to packing instruction Y341 (requires 'Y' LQ label).

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
Seveso III Directive (Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances, hazard categories:
P5a FLAMMABLE LIQUIDS, Category 1 or 2
P5b FLAMMABLE LIQUIDS
P5c FLAMMABLE LIQUIDS, Category 2 or 3 not covered by P5a and P5b
Water hazard class WGK 2 : Obviously 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 Biotech 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.