according to UK REACH Regulation

#### **Ethanol**

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

#### 1.1. Product identifier

Ethanol

CAS No: 64-17-5 Index No: 603-002-00-5 EC No: 200-578-6

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

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

ABX advanced biochemical compounds Company name:

Biomedizinische Forschungsreagenzien GmbH

Street: Heinrich-Gläser-Straße 10-14

Place: 01454 Radeberg Telephone: +49 3528 4041 60

Telefax: +49 3528 4041 65 e-mail: info@abx.de

Contact person: Dr. Christoph Meyer

Telephone: +49 3528 4041 8732

e-mail: meyer@abx.de Internet: http://www.abx.de +49 3528 4041 60 1.4. Emergency telephone

number:

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### **GB CLP Regulation**

Flam. Liq. 2; H225

Full text of hazard statements: see SECTION 16.

# 2.2. Label elements

## **GB CLP Regulation**

Signal word: Danger

Pictograms:



# **Hazard statements**

Highly flammable liquid and vapour. H225

#### **Precautionary statements**

P403 Store in a well-ventilated place.

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

smoking.

## **SECTION 3: Composition/information on ingredients**

## 3.1. Substances

#### according to UK REACH Regulation

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#### **Hazardous components**

CAS No	Chemical name	Chemical name			
	EC No	Index No	REACH No		
	Classification (GB CLP Regulation)				
64-17-5	ethanol; ethyl alcohol				
	200-578-6	603-002-00-5			
	Flam. Liq. 2; H225				

Full text of H and EUH statements: see section 16.

## Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
64-17-5	200-578-6	ethanol; ethyl alcohol	95 - < 100 %
	inhalation: LC50 = 95,6 mg/l (vapours); oral: LD50 = 6200 mg/kg		

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### After inhalation

Provide fresh air.

#### After contact with skin

After contact with skin, wash immediately with: Water. Change contaminated clothing.

## After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

# After ingestion

If swallowed, immediately drink: Water.

## **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Water. Carbon dioxide (CO2). Foam. Extinguishing powder.

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

Combustible. Vapours may form explosive mixtures with air.

## 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

#### **Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

## **SECTION 6: Accidental release measures**

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

#### General advice

Remove all sources of ignition. Provide adequate ventilation.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Explosion hazard.

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

#### Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the

#### according to UK REACH Regulation

#### **Ethanol**

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recovered material as prescribed in the section on waste disposal.

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

## Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

#### Advice on general occupational hygiene

Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

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

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from sources of ignition - No smoking.

#### Hints on joint storage

Do not store together with: Material, rich in oxygen, oxidizing.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL

#### 8.2. Exposure controls

# SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Physical state: liquid

Colour:

Changes in the physical state

Melting point/freezing point:

Boiling point or initial boiling point and boiling range:

Flash point:

-114 °C

78 °C

boiling range:

Lower explosion limits:

Upper explosion limits:

15 vol. %

Vapour pressure:

58 hPa

(at 20 °C)
Vapour pressure: 293 hPa

(at 50 °C)

Density: 0,79 g/cm<sup>3</sup>

## **SECTION 10: Stability and reactivity**

#### 10.4. Conditions to avoid

Keep away from heat. Ignition hazard.

## **SECTION 11: Toxicological information**

# 11.1. Information on hazard classes as defined in GB CLP Regulation

#### according to UK REACH Regulation

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#### **Acute toxicity**

CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
64-17-5	ethanol; ethyl alcohol						
	l - · - · ·	LD50 mg/kg	6200	Rat	IUCLID		
	inhalation (4 h) vapour	LC50	95,6 mg/l	Rat	RTECS		

#### Additional information on tests

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

CAS No	Chemical name						
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method	
64-17-5	ethanol; ethyl alcohol						
	Acute crustacea toxicity	EC50 9268 - 14221 mg/l	48 h	Daphnia magna	IUCLID		

#### 12.3. Bioaccumulative potential

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64-17-5	ethanol; ethyl alcohol	-0,31

#### 12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of UK REACH.

#### 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

#### **Further information**

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

### **Disposal recommendations**

Dispose of waste according to applicable legislation.

## Contaminated packaging

Water (with cleaning agent). Completely emptied packages can be recycled.

## **SECTION 14: Transport information**

## Land transport (ADR/RID)

14.1. UN number or ID number:UN 117014.2. UN proper shipping name:ETHANOL

14.3. Transport hazard class(es):314.4. Packing group:IIHazard label:3Classification code:F1

## according to UK REACH Regulation

according to ONNEAGH Regulation						
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Special Provisions:	144; 601					
Limited quantity:	LQ4					
Transport category:	2					
Hazard No:	33					
Tunnel restriction code:	D/E					
Inland waterways transport (ADN)						
14.1. UN number or ID number:	UN 1170					
14.2. UN proper shipping name:	ETHANOL					
Marine transport (IMDG)						
14.1. UN number or ID number:	UN 1170					
14.2. UN proper shipping name:	ETHANOL					
14.3. Transport hazard class(es):	3					
14.4. Packing group:	II					
Hazard label:	3					
Air transport (ICAO-TI/IATA-DGR)						
14.1. UN number or ID number:	UN 1170					
14.2. UN proper shipping name:	ETHANOL					
14.3. Transport hazard class(es):	3					
14.4. Packing group:	II					
Hazard label:	3					
Special Provisions:	A3					
Limited quantity Passenger:	1L					
IATA-packing instructions - Passenger:	305					
IATA-max. quantity - Passenger:	5L					
IATA-packing instructions - Cargo:	307					
IATA-max. quantity - Cargo:	60L					

# **SECTION 15: Regulatory information**

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

## **EU** regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40

2004/42/EC (VOC): 99,5 %

**National regulatory information** 

Water hazard class (D): 1 - slightly hazardous to water

# **SECTION 16: Other information**

# Relevant H and EUH statements (number and full text)

H225 Highly flammable liquid and vapour.