according to UK REACH Regulation

## Ethanol (for Hypercarb cartridge)

Revision date: 25.08.2022

Product code: PE-FSPG-047-R-V5

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

## 1.1. Product identifier

Ethanol (for Hypercarb cartridge)

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

Company name:	ABX advanced biochemical com	ABX advanced biochemical compounds		
	Biomedizinische Forschungsreag	genzien 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			
1.4. Emergency telephone	+49 3528 4041 60			

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:

Pictograms:



Danger

#### Hazard statements

H225

Highly 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.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
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 or shower.
P403+P235	Store in a well-ventilated place. Keep cool.

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

## 3.1. Substances

## Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
64-17-5	ethanol; ethyl alcohol	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		
	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.

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## 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 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.

#### Further information on storage conditions

Maximum storage temperature: + 30

Protect against: Light.

## **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: Colour:	liquid colourless	
Changes in the physical state		
Melting point/freezing point:		-114 °C
Boiling point or initial boiling point a boiling range:	and	78 °C
Flash point:		12 °C
Lower explosion limits:		3,5 vol. %
Upper explosion limits:		15 vol. %
Water solubility:		easily soluble.
Vapour pressure: (at 20 °C)		58 hPa
Vapour pressure: (at 50 °C)		293 hPa
Density:		0,79 g/cm <sup>3</sup>

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## **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

#### Acute toxicity

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

## **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.

## 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 1170
14.2. UN proper shipping name:	Ethanol
14.3. Transport hazard class(es):	3
14.4. Packing group:	II

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Hazard label:	3		
Classification code:	F1		
Special Provisions:	144 601		
Limited quantity:	1 L		
Excepted quantity:	E2		
Transport category: Hazard No:	2 33		
Tunnel restriction code:	D/E		
	DIE		
Inland waterways transport (ADN)			
14.1. UN number or ID number:	UN 1170		
14.2. UN proper shipping name:	Ethanol		
14.3. Transport hazard class(es):	3		
<u>14.4. Packing group:</u> Hazard label:	11		
Hazard label: Classification code:	3 F1		
Special Provisions:	144 601		
Limited quantity: Excepted quantity:	1 L E2		
	EZ		
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:			
Hazard label:	3		
Special Provisions:	144		
Limited quantity:	1 L E2		
Excepted quantity: EmS:	E2 F-E, S-D		
	г-е, 3-0		
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:			
Hazard label:	3		
Special Provisions:	A3 A58 A180		
Limited quantity Passenger: Passenger LQ:	1 L Y341		
Excepted quantity:	E2		
IATA-packing instructions - Passenger:		353	
IATA-packing instructions - Passenger:		555 5 L	
IATA-max. quantity - 1 assenger. IATA-packing instructions - Cargo:		364	
IATA-max. quantity - Cargo:		60 L	
SECTION 15: Regulatory information			

# SECTION 15: Regulatory information

Restriction	tory information is on use (REACH, annex XVII): 3, Entry 40	
2004/42/E	C (VOC):	99,5 %
National regulatory information		
Water haz	ard class (D):	1 - slightly hazardous to water

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# **SECTION 16: Other information**

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

H225 Highly flammable liquid and vapour.