according to UK REACH Regulation

Acetonitrile for Eluant Solution

Revision date: 28.04.2023

Product code: K-5041SIE-V4a

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

1.1. Product identifier

EC No:

Acetonitrile for Eluant Solution

Further trade names Synonyme: Methyl cyanide; ACN CAS No: 75-0 Index No: 608-

75-05-8 608-001-00-3 200-835-2

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 compounds		
	Biomedizinische Forschungsrea	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 Acute Tox. 4; H332 Acute Tox. 4; H312 Acute Tox. 4; H302 Eye Irrit. 2; H319

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.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.

Precautionary statements

P210

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

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P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.				
SECTION 3: Composition/information on ingredients					

3.1. Substances

Sum formula:

C2H3N

Hazardous components

CAS No	Chemical name	Chemical name		
	EC No	Index No	REACH No	
	Classification (GB CL	P Regulation)		
75-05-8	acetonitrile; cyanomet	hane	100	
	200-835-2	608-001-00-3		
	Flam. Liq. 2, Acute To	x. 4, Acute Tox. 4, Acute Tox. 4, Eye I	rit. 2; H225 H332 H312 H302 H319	

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		
75-05-8	200-835-2	acetonitrile; cyanomethane	100 %
inhalation: LC50 = 11 mg/l (vapours); inhalation: LC50 = 11 mg/l (dusts or mists); dermal: LD50 = 988 mg/kg; oral: ATE = 500 mg/kg			

SECTION 4: First aid measures

4.1. Description of first aid measures

After inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin

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

After contact with eyes

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Medical treatment necessary.

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.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. 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

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General advice

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

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 recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. 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 locked up. Store in a place accessible by authorized persons only. Keep container in a well-ventilated place.

Hints on joint storage

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

Further information on storage conditions

Storage at below °C: +30

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
75-05-8	Acetonitrile	40	68		TWA (8 h)	WEL
		60	102		STEL (15 min)	WEL

8.2. Exposure controls

Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	colourless
Odour:	Ether
Melting point/freezing point:	

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Boiling point or initial boiling point and boiling range:	81,6 °C			
Lower explosion limits:	3 vol. %			
Upper explosion limits:	17 vol. %			
Flash point:	2 °C			
Water solubility: (at 20 °C)	easily soluble.			
Vapour pressure: (at 20 °C)	97 hPa			
Density (at 20 °C):	0,786 g/cm³			
9.2. Other information				
Other safety characteristics Viscosity / dynamic: (at 25 °C)	0.316 mPa∙s			

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

Acute toxicity, oral. Acute toxicity, inhalant. Acute toxicity, dermal.

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
75-05-8	acetonitrile; cyanomethan	е		-		-
	oral	ATE mg/kg	500			
	dermal	LD50 mg/kg	988	Rabbit	IUCLID	
	inhalation vapour	LC50	11 mg/l			
	inhalation dust/mist	LC50	11 mg/l			

Irritation and corrosivity

Irritating to eyes.

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				
75-05-8	acetonitrile; cyanomethane				
	Acute fish toxicity	LC50 1640 mg/l	96 h Pimephales promelas	IUCLID	

12.3. Bioaccumulative potential

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Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
75-05-8	acetonitrile; cyanomethane	-0,34

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

Do not allow to enter into surface water or drains. 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

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

Land transport (ADR/RID)	
14.1. UN number or ID number:	UN 1648
14.2. UN proper shipping name:	ACETONITRILE
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3
Classification code:	F1
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	33
Tunnel restriction code:	D/E
Inland waterways transport (ADN)	
14.1. UN number or ID number:	UN 1648
14.2. UN proper shipping name:	ACETONITRILE
14.3. Transport hazard class(es):	3
14.4. Packing group:	11
Hazard label:	3
Classification code:	F1
Limited quantity:	1 L
Excepted quantity:	E2
Marine transport (IMDG)	
14.1. UN number or ID number:	UN 1648
14.2. UN proper shipping name:	ACETONITRILE
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3
Special Provisions:	-
Limited quantity:	1 L
Excepted quantity:	E2

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EmS:	F-E, S-D		
Air transport (ICAO-TI/IATA-DGR)			
14.1. UN number or ID number:	UN 1648		
14.2. UN proper shipping name:	ACETONITRILE		
14.3. Transport hazard class(es):	3		
14.4. Packing group:	II		
Hazard label:	3		
Limited quantity Passenger:	1 L		
Passenger LQ:	Y341		
Excepted quantity:	E2		
IATA-packing instructions - Passenger:		353	
IATA-max. quantity - Passenger:		5 L	
IATA-packing instructions - Cargo:		364	
IATA-max. quantity - Cargo:		60 L	

SECTION 15: Regulatory information

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

Water hazard class (D):	2 - obviously hazardous to water
National regulatory information	
2004/42/EC (VOC):	100 % (786 g/l)
Entry 3, Entry 40, Entry 75	
Restrictions on use (REACH, annex XVII):	
EU regulatory information	

SECTION 16: Other information

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.			
H302	Harmful if swallowed.			
H312	Harmful in contact with skin.			
H319	Causes serious eye irritation.			
H332	Harmful if inhaled.			