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# **Safety Data Sheet**

#### according to UK REACH Regulation

# **Cryptand solution**

Revision date: 19.08.2022 Product code: K-26XX.01 Page 1 of 5

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

#### 1.1. Product identifier

Cryptand solution

# 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 Forschungsreagenzien GmbH

Street: Heinrich-Gläser-Straße 10-14

Place: 01454 Radeberg
Telephone: +49 3528 4041 60

e-mail: info@abx.de
Contact person: Dr. Christoph Meyer

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**

Hazard categories:

Acute toxicity: Acute Tox. 4

Serious eye damage/eye irritation: Eye Irrit. 2

Hazard Statements:

Highly flammable liquid and vapour.

Harmful if swallowed.

Causes serious eye irritation.

#### 2.2. Label elements

# **GB CLP Regulation**

Signal word: Danger

Pictograms:





# **Hazard statements**

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.
H319 Causes serious eye irritation.

## **Precautionary statements**

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P403 Store in a well-ventilated place.

P235 Keep cool.

P233 Keep container tightly closed.

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

smoking.

according to UK REACH Regulation

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

#### 3.2. Mixtures

# **Hazardous components**

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification (GB CLP Regulation)				
75-05-8	acetonitrile; cyanomethane				
	200-835-2	608-001-00-3			
	Flam. Liq. 2, Acute Tox. 4, Acute Tox. 4, Acute Tox. 4, Eye Irrit. 2; H225 H332 H312 H302 H319				
23978-09-8	Cryptand 222				
	245-962-4				
	Acute Tox. 4, Skin Irrit. 2, Eye Dam	. 1; H302 H315 H318			

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. I	Limits, M-factors and ATE			
75-05-8	200-835-2	acetonitrile; cyanomethane			
	inhalation: LC50 = 11 mg/l (vapours); inhalation: LC50 = 11 mg/l (dusts or mists); dermal: LD50 = 988 mg/kg; oral: ATE = 500 mg/kg				
23978-09-8	245-962-4	Cryptand 222	1 - < 5 %		
	oral: ATE = 500 mg/kg				

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

#### 4.1. Description of first aid measures

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap.

#### After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

#### After ingestion

Let water be drunken in little sips (dilution effect). Call a physician in any case!

#### **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

# Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. In case of fire: Wear self-contained breathing apparatus.

#### **Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

#### General advice

Wear personal protection equipment.

# **SECTION 7: Handling and storage**

according to UK REACH Regulation

# **Cryptand solution**

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#### 7.1. Precautions for safe handling

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

# Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

#### Further information on storage conditions

Maximum storage temperature: + 30°C

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
75-05-8	Acetonitrile	40	68		TWA (8 h)	WEL
		60	102		STEL (15 min)	WEL

#### 8.2. Exposure controls

# **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state: liquid Colour: colourless

Changes in the physical state

Water solubility: easily soluble.

# **SECTION 10: Stability and reactivity**

# **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
75-05-8	acetonitrile; cyanomethane					
	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			
23978-09-8	Cryptand 222					
	oral	ATE mg/kg	500			

#### **Further information**

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

#### according to UK REACH Regulation

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#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

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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

#### 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

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

# 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### **Further information**

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC). Do not allow uncontrolled discharge of product into the environment.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### **Disposal recommendations**

Remove according to the regulations.

#### 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)

14.1. UN number or ID number:	UN 1648

14.2. UN proper shipping name: ACETONITRILE, Mixture

14.3. Transport hazard class(es): 3 14.4. Packing group: Ш 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, Mixture

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

according to UK REACH Regulation

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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, Mixture	
14.3. Transport hazard class(es):	3	
14.4. Packing group:	II	
Hazard label:	3	
Special Provisions:	-	
Limited quantity:	1 L	
Excepted quantity:	E2	
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, Mixture	
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

# **EU** regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

# National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

# **SECTION 16: Other information**

# Relevant H and EUH statements (number and full text) H225 Highly flammable liquid and vapour.

HZZ3	nigniy naminable liquid and vapour
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)