according to Regulation (EC) No 1907/2006 (REACH) as amended

## T-cell BlastoFlowEx Kit

Date of creation Date of revision 21st July 2023

Version

1

 PRODUCT IDENTIFICATION

 Cat. No.
 Product name

 ED7642
 T-cell BlastoFlowEx Kit

COMPONENTS	S OF THE KIT	
Code	Name	Classification
ED7642-1	Fix and Lysing Solution	
ED7642-2	Permeabilizing Solution	
ED7642-3	EDTA	
ED7642-4	CD3 APC/Ki-67 PE	Not classified as hazardous.

		_	Y DATA SHEET	
	ассо	rding to Regulation (E	C) No 1907/2006 (REACH) as a	amended
		Fix and	Lysing Solution	
Creati	on date 21	st July 2023	Revision no.	
Revisi	on date		Version	1
ECT	ION 1: Identification of th	e substance/mixtu	re and of the company/unde	ertaking
.1.	Product identifier		Fix and Lysing Solut	-
	Substance / mixture		mixture	
	Number		ED7642-1	
.2.	Relevant identified uses	of the substance o	r mixture and uses advised a	against
	Mixture's intended use			
	diagnostic reagent			
	The use descriptors			
	SU 24	Scientific resear	ch and development	
	PC 21	Laboratory chen	nicals	
	PROC 15	Use as laborator	ry reagent	
	Mixture uses advised ag			
	-		an those referred in Section 1.	
.3.	Details of the supplier of	of the safety data sh	eet	
	Manufacturer			
	Name or trade name	2	EXBIO Praha, a.s.	
	Address		Nad Safinou II / 341	1, Vestec, 25250
			Czech Republic	
	Phone		+420261090666	
	E-mail		orders@exbio.cz	
	Web address		www.exbio.cz	
	Competent person resp	onsible for the safet	ty data sheet	
	Name		EXBIO Praha, a.s.	
	E-mail	_	orders@exbio.cz	
.4.	Emergency telephone n			
	National Health Service (N			
	National poisoning informa	ition centre Scotland,	NHS 24: 111	

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

## 2.1. Classification of the substance or mixture Classification of the mixture in accordance with Regulation (EC) No 1272/2008 The mixture is classified as dangerous.

Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 STOT SE 3, H335 Muta. 2, H341 Carc. 1B, H350 STOT SE 2, H371 STOT RE 2, H373 (kidneys) (ingestion)

Full text of all classifications and hazard statements is given in the section 16.

### Most serious adverse effects on human health and the environment

May cause damage to the kidneys through prolonged or repeated exposure if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. May cause cancer. Suspected of causing genetic defects. May cause damage to organs. Harmful if swallowed.

SAFETY DATA SHEET							
	according to Regulation (EC) No 1907/2006 (REACH) as amended						
Fix and Lysing Solution							
Creation date 21st July 2023 Revision no.							
Revisi	on date	Version 1					
2.2.	Label elements						
	Hazard pictogram						
	Signal word						
	Danger						
	Hazardous substances						
	2,2'-oxybisethanol formaldehyde% methanol						
	Hazard statements						
	H302	Harmful if swallowed.					
	H315	Causes skin irritation.					
	H317	May cause an allergic skin reaction.					
	H319	Causes serious eye irritation.					
	H335	May cause respiratory irritation.					
	H341	Suspected of causing genetic defects.					
	H350	May cause cancer.					
	H371	May cause damage to organs.					
	H373	May cause damage to the kidneys through prolonged or repeated exposure if swallowed.					
	Precautionary stateme	ints					
	P201	Obtain special instructions before use.					
	P260	Do not breathe vapours.					
	P264	Wash hands and exposed parts of the body thoroughly after handling.					
	P280	Wear protective gloves/protective clothing/eye protection.					
	P308+P313	IF exposed or concerned: Get medical advice/attention.					
	P314	Get medical advice/attention if you feel unwell.					
2.3.	Other hazards						

### 2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

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

### 3.2. Mixtures

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 603-140-00-6 CAS: 111-46-6 EC: 203-872-2 Registration number: 01-2119457857-21- XXXX	2,2'-oxybisethanol		Acute Tox. 4, H302 STOT RE 2, H373 (kidneys) (ingestion)	3

according to Regulation (EC) No 1907/2006 (REACH) as amended

## Fix and Lysing Solution

Creation date Revision date	21st July 2023	vision no. rsion	1	
Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 605-001-00-5 CAS: 50-00-0 EC: 200-001-8	formaldehyde%	<11	Acute Tox. 3, H301+H311+H331 Skin Corr. 1B, H314 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350 Specific concentration limit: Skin Corr. 1B, H314: $C \ge 25 \%$ Skin Irrit. 2, H315: $5 \% \le C < 25 \%$ Skin Sens. 1, H317: $C \ge 0.2 \%$ Eye Irrit. 2, H319: $5 \% \le C < 25 \%$ STOT SE 3, H335: $C \ge 5 \%$	1, 2, 3, 4
Index: 603-001-00-X CAS: 67-56-1 EC: 200-659-6	methanol	<3	Flam. Liq. 2, H225 Acute Tox. 3, H301+H311+H331 STOT SE 1 (**), H370 Specific concentration limit: STOT SE 1, H370: $C \ge 10 \%$ STOT SE 2, H371: 3 % $\le C < 10$ %	3, 4

### Notes

- \*\* another exposure route cannot be ruled out
- 1 Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.
- 2 Note D: Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3 of Annex VI to Regulation (EC) No 1272/2008. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier who places such a substance on the market must state on the label the name of the substance followed by the words "non-stabilised".
- 3 A substance for which exposure limits are set.
- 4 The use of the substance is restricted by Annex XVII of REACH Regulation

Full text of all classifications and hazard statements is given in the section 16.

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

### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

### If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

### If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

### If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

according to Regulation (EC) No 1907/2006 (REACH) as amended

## Fix and Lysing Solution

Creation	date
Revision	date

Revision no. Version

1

### If swallowed

Provide medical treatment. For persons with no symptoms, call the Toxicological Information Centre to decide about the need of medical treatment; provide information about the substances or composition of the product from the original packaging or the Safety Data Sheet of the product.

4.2. Most important symptoms and effects, both acute and delayed If inhaled Cough, headache. May cause respiratory irritation. If on skin May cause an allergic skin reaction. If in eyes Causes serious eye irritation. If swallowed Irritation, nausea.
4.3. Indication of any immediate medical attention and special treatment needed Symptomatic treatment.

21st July 2023

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

### 5.1. Extinguishing media

### Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

### Unsuitable extinguishing media

Water - full jet.

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

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

### 5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

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

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

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes.

### 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

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

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

## 6.4. Reference to other sections

See the Section 7, 8 and 13.

### SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Do not eat, drink or smoke when using this product. Wash hands and exposed parts of the body thoroughly after handling. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

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

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Store locked up. Keep container tightly closed.

according to Regulation (EC) No 1907/2006 (REACH) as amended

## **Fix and Lysing Solution**

Creation date Revision date Revision no. Version

1

### 7.3. Specific end use(s)

diagnostic reagent

### SECTION 8: Exposure controls/personal protection

21st July 2023

### 8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

United Kingdom E	H40/2005 Wor	kplace exposu	re limits (Fourth Edition 2020)
Substance name (component)	Туре	Value	Note
2,2'-oxybisethanol (CAS: 111-46-6)	WEL 8h	101 mg/m <sup>3</sup>	
2,2-0xybisethanol (CAS: 111-40-0)	WEL 8h	23 ppm	
	WEL 8h	2,5 mg/m <sup>3</sup>	
formaldehyde% (CAS: 50-00-0)	WEL 8h	2 ppm	
Tormaldenyde% (CAS: 50-00-0)	WEL 15min	2,5 mg/m <sup>3</sup>	
	WEL 15min	2 ppm	
	WEL 8h	266 mg/m <sup>3</sup>	
	WEL 8h	200 ppm	Can be absorbed through the skin. The assigned substances are those for which there are
methanol (CAS: 67-56-1)	WEL 15min	333 mg/m <sup>3</sup>	concerns that dermal absorption will lead to systemic toxicity.
	WEL 15min	250 ppm	

### 8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

### Eye/face protection

Protective goggles.

### Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

according to Regulation (EC) No 1907/2006 (REACH) as amended

## Fix and Lysing Solution

Creation date Revision date Revision no. Version

1

### **Respiratory protection**

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment. **Thermal hazard** 

Not available.

### Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

### SECTION 9: Physical and chemical properties

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

21st July 2023

Appearance	
physical state	liquid at 20 °C
color	colourless
Odour	characteristic, sweet / pungent
рН	data not available
Melting point/freezing point	data not available
Initial boiling point and boiling range	data not available
Flash point	data not available
Flammability (solid, gas)	data not available
Upper/lower flammability or explosive limits	
explosive limits	data not available
Vapour pressure	data not available
Solubility(ies)	
solubility in water	data not available
Partition coefficient: n-octanol/water	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
Viscosity	
Kinematic viscosity	data not available
Other information	
not available	

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

10.1. Reactivity

9.2.

## not available

## 10.2. Chemical stability

The product is stable under normal conditions.

# **10.3.** Possibility of hazardous reactions Unknown.

## 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

## 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

## 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

according to Regulation (EC) No 1907/2006 (REACH) as amended

## Fix and Lysing Solution

Creation date Revision date Revision no.

Version

1

### Acute toxicity

May cause damage to organs. Harmful if swallowed.

21st July 2023

### 2,2'-oxybisethanol

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Skin	LD50	11890 mg/kg		Rabbit	

### Skin corrosion/irritation

Causes skin irritation.

### Serious eye damage/irritation

Causes serious eye irritation.

### Respiratory or skin sensitisation

May cause an allergic skin reaction.

### Germ cell mutagenicity

Suspected of causing genetic defects.

### Carcinogenicity

May cause cancer.

### **Reproductive toxicity**

Based on available data the classification criteria are not met.

### Toxicity for specific target organ - single exposure

May cause respiratory irritation. May cause damage to organs.

### Toxicity for specific target organ - repeated exposure

May cause damage to the kidneys through prolonged or repeated exposure if swallowed.

### Aspiration hazard

Based on available data the classification criteria are not met.

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

## 12.1. Toxicity

not available

### Acute toxicity

2,2'-oxybisethanol					
Parameter	Value	Exposure time	Species	Environment	
LC50	75.2 mg/kg	96 hours	Fish (Pimephales promelas)		

### 12.2. Persistence and degradability

not available

- **12.3. Bioaccumulative potential** Not available.
- 12.4. Mobility in soil
- Not available.

## 12.5. Results of PBT and vPvB assessment

according to Regulation (EC) No 1907/2006 (REACH) as amended

## Fix and Lysing Solution

Creation date	21st July 2023	Revision no.		
Revision date		Version	1	

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

## 12.6. Other adverse effects

Not available.

## **SECTION 13: Disposal considerations**

### **13.1.** Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

### Waste management legislation

Producer Responsibility Obligations (Packaging Waste) Regulations 2007 (S.I. No. 871 of 2007). Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

### **SECTION 14: Transport information**

14.1. UN number

not subject to transport regulations

- 14.2. UN proper shipping name not relevant
- 14.3. Transport hazard class(es) not relevant
- 14.4. Packing group not relevant
- 14.5. Environmental hazards not relevant
- **14.6.** Special precautions for user Reference in the Sections 4 to 8.
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code not relevant

### **SECTION 15: Regulatory information**

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

Clean Air Act 1993 as amended. The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 as amended. Public health act 1961. Environmental Protection Act 1990 as amended. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

according to Regulation (EC) No 1907/2006 (REACH) as amended

## **Fix and Lysing Solution**

Creation date Revision date and Lysing Solution Revision no.

Version

21st July 2023

10.

1

## Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended

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Restriction	Conditions of restriction
28	<ul> <li>Without prejudice to the other parts of this Annex the following shall apply to entries 28 to 30:</li> <li>1. Shall not be placed on the market, or used,</li> <li>— as substances,</li> <li>— as constituents of other substances, or,</li> </ul>
	<ul> <li>in mixtures, for supply to the general public when the individual concentration in the substance or mixture is equal to or greater than:</li> </ul>
	- either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008, or,
	<ul> <li>the relevant generic concentration limit specified in Part 3 of Annex I of Regulation (EC) No 1272/2008.</li> </ul>
	Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows:
	"Restricted to professional users".
	<ul> <li>2. By way of derogation, paragraph 1 shall not apply to:</li> <li>(a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC;</li> <li>(b) cosmetic products as defined by Directive 76/768/EEC;</li> <li>(c) the following fuels and oil products: <ul> <li>motor fuels which are covered by Directive 98/70/EC,</li> </ul> </li> </ul>
	<ul> <li>mineral oil products intended for use as fuel in mobile or fixed combustion plants,</li> <li>fuels sold in closed systems (e.g. liquid gas bottles);</li> </ul>
	<ul> <li>(d) artists' paints covered by Regulation (EC) No 1272/2008;</li> <li>(e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date.</li> </ul>
	(f) devices covered by Regulation (EU) 2017/745.

according to Regulation (EC) No 1907/2006 (REACH) as amended

# Fix and Lysing Solution

Creation date Revision date Revision no. Ver

1

21st July 2023

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Restriction	Conditions of restriction
72	1. Shall not be placed on the market after 1 November 2020 in any of the following:
	(a) clothing or related accessories;
	(b) textiles other than clothing which, under normal or reasonably foreseeable conditions of use,
	come into contact with human skin to an extent similar to clothing;
	(c) footwear;
	if the clothing, related accessory, textile other than clothing or footwear is for use by consumers and the substance is present in a concentration, measured in homogeneous material, equal to or greater
	than that specified for that substance in Appendix 12.
	2. By way of derogation, in relation to the placing on the market of formaldehyde [CAS No 50-00-0] in jackets, coats or upholstery, the relevant concentration for the purposes of paragraph 1 shall be 300 mg/kg during the period between 1 November 2020 and 1 November 2023. The concentration specified in Appendix 12 shall apply thereafter.
	3. Paragraph 1 shall not apply to:
	(a) clothing, related accessories or footwear, or parts of clothing, related accessories or footwear, made exclusively of natural leather, fur or hide;
	(b) non-textile fasteners and non-textile decorative attachments;
	(c) second-hand clothing, related accessories, textiles other than clothing or footwear
	(d) wall-to-wall carpets and textile floor coverings for indoor use, rugs and runners.
	4. Paragraph 1 shall not apply to clothing, related accessories, textiles other than clothing, or footwear within the scope of Regulation (EU) 2016/425 of the European Parliament and of the Council (*) or Regulation (EU) 2017/745 of the European Parliament and of the Council (**).
	5. Paragraph 1(b) shall not apply to disposable textiles. 'Disposable textiles' means textiles that are designed to be used only once or for a limited time and are not intended for subsequent use for the same or a similar purpose.
	6. Paragraphs 1 and 2 shall apply without prejudice to the application of any stricter restrictions set out in this Annex or in other applicable Union legislation.
	7. The Commission shall review the exemption in paragraph 3(d) and, if appropriate, modify that point accordingly.
	(*) Regulation (EU) 2016/425 of the European Parliament and of the Council of of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC (OJ L 81, 31.3.2016, p.
	51).
	(**) Regulation (EU) 2017/745 of the European Parliament and of the Council of 5 April 2017 on medical devices, amending Directive 2001/83/EC, Regulation (EC) No 178/2002 and Regulation (EC)
	No 1223/2009 and repealing Council Directives 90/385/EEC and 93/42/EEC (OJ L 117, 5.5.2017, p. 1).
nethanol	
Restriction	Conditions of restriction

Shall not be placed on the market to the general public after 9 May 2019 in windscreen washing or

defrosting fluids, in a concentration equal to or greater than 0,6 % by weight.

### 15.2. Chemical safety assessment not available

### **SECTION 16: Other information**

69

A list of standard risk phrases used in the safety data sheet				
H225	Highly flammable liquid and vapour.			
H302	Harmful if swallowed.			
H314	Causes severe skin burns and eye damage.			
H315	Causes skin irritation.			
H317	May cause an allergic skin reaction.			
H319	Causes serious eye irritation.			
H335	May cause respiratory irritation.			

according to Regulation (EC) No 1907/2006 (REACH) as amended

	Fix and	Lysing Solution	
Creation date	21st July 2023	Revision no.	
Revision date		Version	1
H341	Suspected of ca	using genetic defects.	
H350	May cause cance		
H370	Causes damage		
H371	May cause dama		
H373			rolonged or repeated exposure if
H301+H311+H33		ed, in contact with skin or if i	nhaled.
	safe handling used in the saf	-	
P201	•	nstructions before use.	
P260	Do not breathe	•	
P264		d exposed parts of the body t	
P280		gloves/protective clothing/ey	
P308+P313	•	oncerned: Get medical advice	
P314		rice/attention if you feel unwe	ell.
	it information about human l	-	
as per the Sectio	n 1. The user is responsible for	adherence to all related heal	/importer - used for purposes other than Ith protection regulations.
-	ations and acronyms used in	-	
ADR	road	-	ional carriage of dangerous goods by
BCF	Bioconcentration		
CAS	Chemical Abstra		
CLP	substance and n	nixtures	on, labelling and packaging of
EC		de for each substance listed i	
EINECS		tory of Existing Commercial C	Chemical Substances
EmS	Emergency plan		
EU	European Union		
EuPCS		ct Categorisation System	
IATA		r Transport Association	
IBC	Dangerous Cher	nicals	Equipment of Ships Carrying
ICAO		vil Aviation Organization	
IMDG		aritime Dangerous Goods	
INCI		menclature of Cosmetic Ingr	
ISO		ganization for Standardizatio	
IUPAC		ion of Pure and Applied Chen	
LC50	population		it can be expected death of 50% of the
LD50	population		expected death of 50% of the
log Kow		artition coefficient	
MARPOL		nvention for the Prevention of	of Pollution from Ships
OEL	Occupational Ex		
PBT		ccumulative and Toxic	
ppm	Parts per million		
REACH	-	aluation, Authorisation and R	
RID	-	he transport of dangerous go	
UN	Model Regulation	ns	tance or article taken from the UN
UVCB	Substances of u biological mater		ion, complex reaction products or
VOC	Volatile organic	compounds	
vPvB		and very Bioaccumulative	
Acute Tox.	Acute toxicity		

according to Regulation (EC) No 1907/2006 (REACH) as amended

#### **Fix and Lysing Solution** Creation date 21st July 2023 Revision no. Revision date Version 1 Carcinogenicity Carc. Flam. Liq. Flammable liquid Muta. Germ cell mutagenicity Skin Corr. Skin corrosion Skin Sens. Skin sensitization STOT RE Specific target organ toxicity - repeated exposure STOT SE Specific target organ toxicity - single exposure **Training guidelines** Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product. **Recommended restrictions of use** not available

### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

The first edition of the GB version of the safety data sheet.

### More information

Classification procedure - calculation method.

### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.

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Manuf F F E			than those referred in Section 1.			
F E	ls of the supplier of	f the safety data s	sheet			
F E	facturer					
F	Name or trade name		EXBIO Praha, a.s.			
E	Address		Nad Safinou II / 341, Vestec, 25250			
E			Czech Republic			
	Phone		+420261090666			
1	E-mail		orders@exbio.cz			
-	Web address		www.exbio.cz			
Compo	etent person respo	onsible for the saf	fety data sheet			
٦	Name		EXBIO Praha, a.s.			
=	E-mail		orders@exbio.cz			
L.4. Emerg	gency telephone nu	umber				
Nation Nation	National Health Service (NHS) 111					

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

## 2.1. Classification of the substance or mixture Classification of the mixture in accordance with Regulation (EC) No 1272/2008 The mixture is classified as dangerous.

Acute Tox. 4, H302 Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 STOT SE 3, H335 Muta. 2, H341 Carc. 1B, H350 STOT SE 2, H371 STOT RE 2, H373 (kidneys) (ingestion)

Full text of all classifications and hazard statements is given in the section 16.

### Most serious adverse effects on human health and the environment

May cause damage to the kidneys through prolonged or repeated exposure if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. May cause cancer. Suspected of causing genetic defects. May cause damage to organs. Harmful if swallowed.

		SAFETY DATA SHEET				
	acco	ording to Regulation (EC) No 1907/2006 (REACH) as amended				
Permeabilizing Solution						
Creati	ion date 21	Ist July 2023 Revision no.				
Revisi	ion date	Version 1				
2.2.	Label elements					
	Hazard pictogram					
	Signal word					
	Danger					
	Hazardous substances 2,2'-oxybisethanol formaldehyde%					
	methanol					
	Hazard statements					
	H302	Harmful if swallowed.				
	H315	Causes skin irritation.				
	H317	May cause an allergic skin reaction.				
	H319	Causes serious eye irritation.				
	H335	May cause respiratory irritation.				
	H341	Suspected of causing genetic defects.				
	H350 H371	May cause cancer. May cause damage to organs.				
	H373	May cause damage to organs. May cause damage to the kidneys through prolonged or repeated exposure if swallowed.				
	Precautionary stateme	nts				
	P201	Obtain special instructions before use.				
	P260	Do not breathe vapours.				
	P264	Wash hands and exposed parts of the body thoroughly after handling.				
	P280	Wear protective gloves/protective clothing/eye protection.				
	P308+P313	IF exposed or concerned: Get medical advice/attention.				
	P314	Get medical advice/attention if you feel unwell.				
2.3.	Other hazards					

### 2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

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

### 3.2. Mixtures

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 603-140-00-6 CAS: 111-46-6 EC: 203-872-2 Registration number: 01-2119457857-21- XXXX	2,2'-oxybisethanol		Acute Tox. 4, H302 STOT RE 2, H373 (kidneys) (ingestion)	3

according to Regulation (EC) No 1907/2006 (REACH) as amended

## Permeabilizing Solution

	I CITICADITE.	9 -			
Creation date Revision date	21st July 2023		vision no. rsion	1	
Identification numbers	Substance name		Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 605-001-00-5 CAS: 50-00-0 EC: 200-001-8	formaldehyde%		<11	Acute Tox. 3, H301+H311+H331 Skin Corr. 1B, H314 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350 Specific concentration limit: Skin Corr. 1B, H314: $C \ge 25 \%$ Skin Irrit. 2, H315: $5 \% \le C < 25 \%$ Skin Sens. 1, H317: $C \ge 0.2 \%$ Eye Irrit. 2, H319: $5 \% \le C < 25 \%$ STOT SE 3, H335: $C \ge 5 \%$	1, 2, 3, 4
Index: 603-001-00-X CAS: 67-56-1 EC: 200-659-6	methanol		<3	Flam. Liq. 2, H225 Acute Tox. 3, H301+H311+H331 STOT SE 1 (**), H370 Specific concentration limit: STOT SE 1, H370: $C \ge 10 \%$ STOT SE 2, H371: 3 % $\le C < 10 \%$	3, 4

### Notes

- \*\* another exposure route cannot be ruled out
- 1 Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.
- 2 Note D: Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3 of Annex VI to Regulation (EC) No 1272/2008. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier who places such a substance on the market must state on the label the name of the substance followed by the words "non-stabilised".
- 3 A substance for which exposure limits are set.
- 4 The use of the substance is restricted by Annex XVII of REACH Regulation

Full text of all classifications and hazard statements is given in the section 16.

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

### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

### If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

### If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

### If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

according to Regulation (EC) No 1907/2006 (REACH) as amended

## Permeabilizing Solution

Creation	date
Revision	date

Revision no. Version

1

### If swallowed

Provide medical treatment. For persons with no symptoms, call the Toxicological Information Centre to decide about the need of medical treatment; provide information about the substances or composition of the product from the original packaging or the Safety Data Sheet of the product.

4.2. Most important symptoms and effects, both acute and delayed If inhaled Cough, headache. May cause respiratory irritation. If on skin May cause an allergic skin reaction. If in eyes Causes serious eye irritation. If swallowed Irritation, nausea.
4.3. Indication of any immediate medical attention and special treatment needed Symptomatic treatment.

21st July 2023

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

### 5.1. Extinguishing media

### Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

### Unsuitable extinguishing media

Water - full jet.

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

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

### 5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

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

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

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes.

### 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

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

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

## 6.4. Reference to other sections

See the Section 7, 8 and 13.

### SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Do not inhale mist/vapours/spray. Prevent contact with skin and eyes. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Do not eat, drink or smoke when using this product. Wash hands and exposed parts of the body thoroughly after handling. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

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

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Store locked up. Keep container tightly closed.

according to Regulation (EC) No 1907/2006 (REACH) as amended

## Permeabilizing Solution

Creation date Revision date Revision no. Version

1

7.3. Specific end use(s)

diagnostic reagent

## SECTION 8: Exposure controls/personal protection

21st July 2023

## 8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

United Kingdom E	H40/2005 Wor	kplace exposu	re limits (Fourth Edition 2020)
Substance name (component)	Туре	Value	Note
2,2'-oxybisethanol (CAS: 111-46-6)	WEL 8h	101 mg/m <sup>3</sup>	
2,2-0xybisethanol (CAS: 111-40-0)	WEL 8h	23 ppm	
	WEL 8h	2,5 mg/m <sup>3</sup>	
formaldehyde% (CAS: 50-00-0)	WEL 8h	2 ppm	
Tormaldenyde% (CAS: 50-00-0)	WEL 15min	2,5 mg/m <sup>3</sup>	
	WEL 15min	2 ppm	
	WEL 8h	266 mg/m <sup>3</sup>	
	WEL 8h	200 ppm	Can be absorbed through the skin. The assigned substances are those for which there are
methanol (CAS: 67-56-1)	WEL 15min	333 mg/m <sup>3</sup>	concerns that dermal absorption will lead to systemic toxicity.
	WEL 15min	250 ppm	

### 8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

### Eye/face protection

Protective goggles.

### Skin protection

Hand protection: Protective gloves resistant to the product. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.

according to Regulation (EC) No 1907/2006 (REACH) as amended

## Permeabilizing Solution

Creation date Revision date Revision no. Version

1

### **Respiratory protection**

Halfmask with a filter against organic vapours or a self-contained breathing apparatus as appropriate if exposure limit values of substances are exceeded or in a poorly ventilated environment. **Thermal hazard** 

Not available.

### Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

### SECTION 9: Physical and chemical properties

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

21st July 2023

Appearance	
physical state	liquid at 20 °C
color	colourless
Odour	characteristic, sweet / pungent
рН	data not available
Melting point/freezing point	data not available
Initial boiling point and boiling range	data not available
Flash point	data not available
Flammability (solid, gas)	data not available
Upper/lower flammability or explosive limits	
explosive limits	data not available
Vapour pressure	data not available
Solubility(ies)	
solubility in water	data not available
Partition coefficient: n-octanol/water	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
Viscosity	
Kinematic viscosity	data not available
Other information	
not available	

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

10.1. Reactivity

9.2.

## not available

## 10.2. Chemical stability

The product is stable under normal conditions.

# **10.3.** Possibility of hazardous reactions Unknown.

## 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

## 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

## 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

according to Regulation (EC) No 1907/2006 (REACH) as amended

## Permeabilizing Solution

Creation date Revision date Revision no. Version

1

### Acute toxicity

May cause damage to organs. Harmful if swallowed.

21st July 2023

### 2,2'-oxybisethanol

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Skin	LD50	11890 mg/kg		Rabbit	

### Skin corrosion/irritation

Causes skin irritation.

### Serious eye damage/irritation

Causes serious eye irritation.

### Respiratory or skin sensitisation

May cause an allergic skin reaction.

### Germ cell mutagenicity

Suspected of causing genetic defects.

### Carcinogenicity

May cause cancer.

### **Reproductive toxicity**

Based on available data the classification criteria are not met.

### Toxicity for specific target organ - single exposure

May cause respiratory irritation. May cause damage to organs.

### Toxicity for specific target organ - repeated exposure

May cause damage to the kidneys through prolonged or repeated exposure if swallowed.

### Aspiration hazard

Based on available data the classification criteria are not met.

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

### 12.1. Toxicity

not available

### Acute toxicity

2,2'-oxybisethanol				
Parameter	Value	Exposure time	Species	Environment
LC50	75.2 mg/kg	96 hours	Fish (Pimephales promelas)	

### 12.2. Persistence and degradability

not available

- **12.3. Bioaccumulative potential** Not available.
- 12.4. Mobility in soil
  - Not available.

## 12.5. Results of PBT and vPvB assessment

according to Regulation (EC) No 1907/2006 (REACH) as amended

## Permeabilizing Solution

	1 011104			
Creation date	21st July 2023	Revision no.		
Revision date		Version	1	

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

**12.6.** Other adverse effects

Not available.

### **SECTION 13: Disposal considerations**

### **13.1.** Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

### Waste management legislation

Producer Responsibility Obligations (Packaging Waste) Regulations 2007 (S.I. No. 871 of 2007). Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

### **SECTION 14: Transport information**

14.1. UN number

not subject to transport regulations

- 14.2. UN proper shipping name not relevant
- 14.3. Transport hazard class(es) not relevant
- 14.4. Packing group not relevant
- 14.5. Environmental hazards not relevant
- **14.6.** Special precautions for user Reference in the Sections 4 to 8.
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code not relevant

### **SECTION 15: Regulatory information**

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

Clean Air Act 1993 as amended. The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 as amended. Public health act 1961. Environmental Protection Act 1990 as amended. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

according to Regulation (EC) No 1907/2006 (REACH) as amended

## **Permeabilizing Solution**

Creation date Revision date Revision no.

Version

1

## Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended

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21st July 2023

Restriction	Conditions of restriction
28	<ul> <li>Without prejudice to the other parts of this Annex the following shall apply to entries 28 to 30:</li> <li>1. Shall not be placed on the market, or used,</li> <li>as substances,</li> <li>as constituents of other substances, or,</li> <li>in mixtures, for supply to the general public when the individual concentration in the substance or mixture is equal to or greater than:</li> <li>either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008, or,</li> <li>the relevant generic concentration limit specified in Part 3 of Annex I of Regulation (EC) No 1272/2008.</li> </ul>
	Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows:
	"Restricted to professional users".
	<ul> <li>2. By way of derogation, paragraph 1 shall not apply to:</li> <li>(a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC;</li> <li>(b) cosmetic products as defined by Directive 76/768/EEC;</li> <li>(c) the following fuels and oil products: <ul> <li>motor fuels which are covered by Directive 98/70/EC,</li> <li>mineral oil products intended for use as fuel in mobile or fixed combustion plants,</li> <li>fuels sold in closed systems (e.g. liquid gas bottles);</li> <li>(d) artists' paints covered by Regulation (EC) No 1272/2008;</li> <li>(e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date.</li> </ul> </li> </ul>
	(f) devices covered by Regulation (EU) 2017/745.

according to Regulation (EC) No 1907/2006 (REACH) as amended

## **Permeabilizing Solution**

21st July 2023

Creation date Revision date

Revision no. Version

1

formaldehyde	%
Restriction	Conditions of restriction
72	<ol> <li>Shall not be placed on the market after 1 November 2020 in any of the following:         <ul> <li>(a) clothing or related accessories;</li> <li>(b) textiles other than clothing which, under normal or reasonably foreseeable conditions of use, come into contact with human skin to an extent similar to clothing;</li> <li>(c) footwear;</li> </ul> </li> </ol>
	if the clothing, related accessory, textile other than clothing or footwear is for use by consumers and the substance is present in a concentration, measured in homogeneous material, equal to or greater than that specified for that substance in Appendix 12.
	2. By way of derogation, in relation to the placing on the market of formaldehyde [CAS No 50-00-0] in jackets, coats or upholstery, the relevant concentration for the purposes of paragraph 1 shall be 300 mg/kg during the period between 1 November 2020 and 1 November 2023. The concentration specified in Appendix 12 shall apply thereafter.
	<ul> <li>3. Paragraph 1 shall not apply to:</li> <li>(a) clothing, related accessories or footwear, or parts of clothing, related accessories or footwear, made exclusively of natural leather, fur or hide;</li> <li>(b) non-textile fasteners and non-textile decorative attachments;</li> <li>(c) second-hand clothing, related accessories, textiles other than clothing or footwear</li> <li>(d) wall-to-wall carpets and textile floor coverings for indoor use, rugs and runners.</li> </ul>
	4. Paragraph 1 shall not apply to clothing, related accessories, textiles other than clothing, or footwear within the scope of Regulation (EU) 2016/425 of the European Parliament and of the Council (*) or Regulation (EU) 2017/745 of the European Parliament and of the Council (**).
	5. Paragraph $1(b)$ shall not apply to disposable textiles. 'Disposable textiles' means textiles that are designed to be used only once or for a limited time and are not intended for subsequent use for the same or a similar purpose.
	6. Paragraphs 1 and 2 shall apply without prejudice to the application of any stricter restrictions set out in this Annex or in other applicable Union legislation.
	<ul> <li>7. The Commission shall review the exemption in paragraph 3(d) and, if appropriate, modify that point accordingly.</li> <li>(*) Regulation (EU) 2016/425 of the European Parliament and of the Council of of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC (OJ L 81, 31.3.2016, p. 51).</li> </ul>
	(**) Regulation (EU) 2017/745 of the European Parliament and of the Council of 5 April 2017 on medical devices, amending Directive 2001/83/EC, Regulation (EC) No 178/2002 and Regulation (EC) No 1223/2009 and repealing Council Directives 90/385/EEC and 93/42/EEC (OJ L 117, 5.5.2017, p. 1).

## methanol

Restriction	Conditions of restriction
69	Shall not be placed on the market to the general public after 9 May 2019 in windscreen washing or defrosting fluids, in a concentration equal to or greater than 0,6 % by weight.

### 15.2. Chemical safety assessment not available

### **SECTION 16: Other information**

_		
	A list of standard risk phras	es used in the safety data sheet
	H225	Highly flammable liquid and vapour.
	H302	Harmful if swallowed.
	H314	Causes severe skin burns and eye damage.
	H315	Causes skin irritation.
	H317	May cause an allergic skin reaction.
	H319	Causes serious eye irritation.
	H335	May cause respiratory irritation.

according to Regulation (EC) No 1907/2006 (REACH) as amended

	Permea	bilizing Solution	
Creation date	21st July 2023	Revision no.	
Revision date		Version 1	
H341	Suspected of ca	using genetic defects.	
H350	May cause canc		
H370	Causes damage		
H371	May cause dam	-	
H373		age to the kidneys through prolonged or repeated	exposure if
H301+H311+H3	331 Toxic if swallow	ed, in contact with skin or if inhaled.	
Guidelines for	safe handling used in the sat	ety data sheet	
P201		nstructions before use.	
P260	Do not breathe	vapours.	
P264	Wash hands an	d exposed parts of the body thoroughly after hand	ling.
P280	Wear protective	gloves/protective clothing/eye protection.	
P308+P313	IF exposed or c	oncerned: Get medical advice/attention.	
P314	Get medical adv	rice/attention if you feel unwell.	
Other importa	nt information about human	health protection	
The product mu as per the Secti	ist not be - unless specifically ap on 1. The user is responsible for	proved by the manufacturer/importer - used for a adherence to all related health protection regulation	
_	iations and acronyms used in		
ADR	road	ment concerning the international carriage of dang	gerous goods by
BCF	Bioconcentratio		
CAS	Chemical Abstra		
CLP	substance and i		kaging of
EC		de for each substance listed in EINECS	
EINECS		tory of Existing Commercial Chemical Substances	
EmS	Emergency plar		
EU	European Unior		
EuPCS		ct Categorisation System	
IATA		r Transport Association	
IBC	Dangerous Che		Carrying
ICAO		vil Aviation Organization	
IMDG		aritime Dangerous Goods	
INCI		omenclature of Cosmetic Ingredients	
ISO		ganization for Standardization	
IUPAC		nion of Pure and Applied Chemistry	
LC50	population	ation of a substance in which it can be expected de	
LD50	population	substance in which it can be expected death of 50	0% of the
log Kow		artition coefficient	
MARPOL		onvention for the Prevention of Pollution from Ship	S
OEL	Occupational Ex		
PBT		ccumulative and Toxic	
ppm	Parts per million	1	
REACH	-	aluation, Authorisation and Restriction of Chemica	ls
RID	_	he transport of dangerous goods by rail	
UN	Four-figure ider Model Regulatic	tification number of the substance or article taken ns	from the UN
UVCB	Substances of u biological mater	nknown or variable composition, complex reaction ials	products or
VOC	Volatile organic	compounds	
vPvB	-	and very Bioaccumulative	
Acute Tox.	Acute toxicity		

according to Regulation (EC) No 1907/2006 (REACH) as amended

## Permeabilizing Solution

	Permea	bilizing Solution		
Creation date	21st July 2023	Revision no.		
Revision date		Version	1	
Carc.	Carcinogenicity			
Flam. Liq.	Flammable liqui	d		
Muta.	Germ cell muta	genicity		
Skin Corr.	Skin corrosion			
Skin Sens.	Skin sensitizatio	ิท		
STOT RE	Specific target of	organ toxicity - repeated expo	sure	
STOT SE	Specific target of	organ toxicity - single exposur	e	
Training guide	lines			
Inform the pers ways of handling	onnel about the recommended y g the product.	ways of use, mandatory prote	ctive equipment, first aid	and prohibited
Recommended	l restrictions of use			
not available				
Information al	bout data sources used to co	mpile the Safety Data Shee	t	
REGULATION (E	EC) No. 1907/2006 OF THE EU	ROPEAN PARLIAMENT AND O	F THE COUNCIL (REACH)	as amended

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

The first edition of the GB version of the safety data sheet.

## More information

Classification procedure - calculation method.

### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.

	acco	ruing to Regulation (E	C) No 1907/2006 (REACH) as a	amenued	
			EDTA		
Creati	on date 21	st July 2023	Revision no.		
Revisi	on date		Version	1	
SECT	ON 1: Identification of th	e substance/mixtu	re and of the company/unde	ertaking	
1.1.	Product identifier	· · · · · · · · · · · · · · · · · · ·	EDTA	5	
	Substance / mixture		mixture		
	Number		ED7642-3		
1.2.	Relevant identified uses	s of the substance o	r mixture and uses advised	against	
	Mixture's intended use				
	diagnostic reagent				
	The use descriptors				
	SU 24	Scientific resear	ch and development		
	PC 21	Laboratory chemicals			
	PROC 15	Use as laboratory reagent			
	Mixture uses advised ag	•			
	The product should not be	used in ways other the	nan those referred in Section 1.		
L.3.	Details of the supplier of	of the safety data sh	leet		
	Manufacturer				
	Name or trade name	9	EXBIO Praha, a.s.		
	Address		Nad Safinou II / 34	1, Vestec, 25250	
			Czech Republic		
	Phone		+420261090666		
	E-mail		orders@exbio.cz		
	Web address		www.exbio.cz		
	Competent person resp	onsible for the safe	-		
	Name		EXBIO Praha, a.s.		
	E-mail		orders@exbio.cz		
L. <b>4</b> .	Emergency telephone n				
	National Health Service (N National poisoning informa	,	NUC 24, 111		

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

2.1. Classification of the substance or mixture Classification of the mixture in accordance with Regulation (EC) No 1272/2008 The mixture is classified as dangerous.

STOT RE 2, H373

Full text of all classifications and hazard statements is given in the section 16.

Most serious adverse effects on human health and the environment May cause damage to organs through prolonged or repeated exposure.

## 2.2. Label elements

Hazard pictogram



Signal word Warning

### Hazardous substances

Ethylenediaminetetraacetic acid-Na2-salt-2H2O

### Hazard statements

H373

May cause damage to organs through prolonged or repeated exposure.

according to Regulation (EC) No 1907/2006 (REACH) a
---

EDTA					
Creation date	21st July 2023	Revision no.			
Revision date		Version	1		

## Precautionary statements

P260Do not breathe vapours.P314Get medical advice/attention if you feel unwell.P501Dispose of contents/container to by handing over to the person authorized to<br/>dispose of waste or by returning to the supplier.

### 2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

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

### 3.2. Mixtures

# Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 6381-92-6 EC: 205-358-3 Registration number: 01-2119486775-20	Ethylenediaminetetraacetic acid-Na2-salt- 2H2O	<15	Acute Tox. 4, H332 STOT RE 2, H373	
Index: 011-004-00-7 CAS: 26628-22-8 EC: 247-852-1	sodium azide	<0,099	Acute Tox. 2, H300+H330 Acute Tox. 1, H310 STOT RE 2, H373 (ingestion) Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) EUH032	1

### Notes

1 A substance for which exposure limits are set.

Full text of all classifications and hazard statements is given in the section 16.

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

### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

### If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

### If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

### If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes.

### If swallowed

Rinse out the mouth with clean water. In the event of issues, find medical help.

according to Regulation (EC) No 1907/2006 (REACH) as amended

**EDTA** 

Creation date	21st July 2023	Revision no.	
Revision date		Version	1

### 4.2. Most important symptoms and effects, both acute and delayed

If inhaled Cough, headache. If on skin Not expected. If in eyes Possible irritation. If swallowed

Irritation, nausea.

## 4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

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

### 5.1. Extinguishing media

### Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

## Unsuitable extinguishing media

Water - full jet.

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

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

### 5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

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

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

Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8.

### 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

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

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

### 6.4. Reference to other sections

See the Section 7, 8 and 13.

### SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

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

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose.

7.3. Specific end use(s) diagnostic reagent

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

according to Regulation (EC) No 1907/2006 (REACH) as amended

**EDTA** 

Creation date 21st July 2023 Revision date

**United Kingdom** 

Revision no. Version

1

### EH40/2005 Workplace exposure limits (Fourth Edition 2020)

Substance name (component)	Туре	Value	Note
	WEL 8h	0,1 mg/m³	Can be absorbed through the skin. The assigned substances are those for which there are
sodium azide (as NaN3) (CAS: 26628-22-8)	WEL 15min	0,3 mg/m³	concerns that dermal absorption will lead to systemic toxicity.

### 8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

### Eye/face protection

Protective goggles. Skin protection Hand protection: Protective gloves resistant to the product. Contaminated skin should be washed thoroughly. Respiratory protection Mask with a filter in a poorly ventilated environment. Thermal hazard Not available. Environmental exposure controls Observe usual measures for protection of the environment, see Section 6.2.

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

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

Appearance	
physical state	liquid at 20 °C
color	colourless
Odour	data not available
рН	data not available
Melting point/freezing point	data not available
Initial boiling point and boiling range	data not available
Flash point	data not available
Flammability (solid, gas)	data not available
Upper/lower flammability or explosive limits	
explosive limits	data not available
Vapour pressure	data not available
Solubility(ies)	
solubility in water	soluble
Partition coefficient: n-octanol/water	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
Viscosity	
Kinematic viscosity	data not available
Other information	
not available	

9.2.

SAFETY DATA SHEET					
according to Regulation (EC) No 1907/2006 (REACH) as amended					
	EDTA				
Creation date	21st July 2023	Revision no.			
Revision date		Version	1		

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

### 10.1. Reactivity

The mixture is not reactive under normal conditions of use and storage. Sodium azide can react with metals contained in sewage to form lead or copper azide, which can explode on impact. When reacting with acids, sodium azide can release highly toxic hydrogen azide acid / hydrogen azide gas.

### 10.2. Chemical stability

The product is stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Sodium azide can react with metals contained in sewage to form lead or copper azide, which can explode on impact. **10.4.** Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

### 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

### 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

### SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

### Acute toxicity

Based on available data the classification criteria are not met.

### Ethylenediaminetetraacetic acid-Na<sub>2</sub>-salt-2H<sub>2</sub>O

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Inhalation (dust/mist)	LC <sup>50</sup>	5 mg/l	4 hours		

sodium azide						
Route of exposure	Parameter	Value	Exposure time	Species	Sex	
Oral	LD₅o	27 mg/kg		Rat (Rattus norvegicus)		
Dermal	LD50	20 mg/kg		Rabbit		
Inhalation	LC50	0.054 mg/l	4 hours	Rat (Rattus norvegicus)		

### Skin corrosion/irritation

Based on available data the classification criteria are not met.

### Serious eye damage/irritation

Based on available data the classification criteria are not met.

### Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

### Germ cell mutagenicity

Based on available data the classification criteria are not met.

### Carcinogenicity

Based on available data the classification criteria are not met.

according to Regulation (EC) No 1907/2006 (REACH) as amended

## **EDTA**

	LUTA						
Creation date	21st July 2023	Revision no.					
Revision date		Version	1				

### **Reproductive toxicity**

Based on available data the classification criteria are not met.

### Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

### Toxicity for specific target organ - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

### Aspiration hazard

Based on available data the classification criteria are not met.

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

### 12.1. Toxicity

not available Acute toxicity

Ethylenediaminetetraacetic acid-Na2-salt-2H2O					
Parameter	Value	Exposure time	Species	Environment	
LC50	320 mg/l	96 hours	Fish (Poecilia reticulata)		
sodium azide					
Parameter	Value	Exposure time	Species	Environment	
EC50	5.6 mg/l	48 hours	Aquatic invertebrates		

### 12.2. Persistence and degradability

not available

- 12.3. Bioaccumulative potential
- Not available.

12.4. Mobility in soil

Not available.

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

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

### 12.6. Other adverse effects

Not available.

### SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

### Waste management legislation

Producer Responsibility Obligations (Packaging Waste) Regulations 2007 (S.I. No. 871 of 2007). Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

	SAFETY DATA SHEET							
	according to Regulation (EC) No 1907/2006 (REACH) as amended							
			EDTA					
Creatio	on date	21st July 2023	Revision no.					
Revisio	on date		Version	1				
SECTI	ON 14: Transpo	rt information						
	UN number							
	not subject to tr	ansport regulations						
14.2.	UN proper ship	pping name						
	not relevant							
14.3.	Transport haza	ard class(es)						
	not relevant							
14.4.								
	not relevant							
14.5.		hazards						
146	not relevant	tions for woor						
14.6.	Special precau Reference in the							
14.7.		Jik according to Annex II of N	Aarnol and the IBC Code					
17./.	not relevant	are according to Annex 11 of P						

### SECTION 15: Regulatory information

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

Clean Air Act 1993 as amended. The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 as amended. Public health act 1961. Environmental Protection Act 1990 as amended. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

### 15.2. Chemical safety assessment

not available

### **SECTION 16: Other information**

A list of standard risk phras	ses used in the safety data sheet
H310	Fatal in contact with skin.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H300+H330	Fatal if swallowed or if inhaled.
Guidelines for safe handling	g used in the safety data sheet
P260	Do not breathe vapours.
P314	Get medical advice/attention if you feel unwell.
P501	Dispose of contents/container to by handing over to the person authorized to dispose of waste or by returning to the supplier.
A list of additional standard	phrases used in the safety data sheet
EUH032	Contact with acids liberates very toxic gas.
Other important information	n about human health protection
	ess specifically approved by the manufacturer/importer - used for purposes other than is responsible for adherence to all related health protection regulations.
Key to abbreviations and ac	ronyms used in the safety data sheet
ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service

according to Regulation (EC) No 1907/2006 (REACH) as amended

	EDTA	
Creation date	21st July 2023 Revision no.	
Revision date	Version	1
CLP	Regulation (EC) No 1272/2008 on classif substance and mixtures	fication, labelling and packaging of
EC	Identification code for each substance lis	sted in EINECS
EC₅o	Concentration of a substance when it is a	affected 50% of the population
EINECS	European Inventory of Existing Commerce	cial Chemical Substances
EmS	Emergency plan	
EU	European Union	
EuPCS	European Product Categorisation System	1
IATA	International Air Transport Association	
IBC	International Code For The Construction Dangerous Chemicals	And Equipment of Ships Carrying
ICAO	International Civil Aviation Organization	
IMDG	International Maritime Dangerous Goods	5
INCI	International Nomenclature of Cosmetic	Ingredients
ISO	International Organization for Standardiz	zation
IUPAC	International Union of Pure and Applied	Chemistry
LC50	Lethal concentration of a substance in w population	hich it can be expected death of 50% of the
LD50	Lethal dose of a substance in which it ca population	n be expected death of 50% of the
log Kow	Octanol-water partition coefficient	
MARPOL	International Convention for the Prevent	ion of Pollution from Ships
OEL	Occupational Exposure Limits	
PBT	Persistent, Bioaccumulative and Toxic	
ppm	Parts per million	
REACH	Registration, Evaluation, Authorisation a	nd Restriction of Chemicals
RID	Agreement on the transport of dangerou	is goods by rail
UN	Four-figure identification number of the s Model Regulations	substance or article taken from the UN
UVCB	Substances of unknown or variable comp biological materials	position, complex reaction products or
VOC	Volatile organic compounds	
vPvB	Very Persistent and very Bioaccumulative	e
Acute Tox.	Acute toxicity	
Aquatic Acute	Hazardous to the aquatic environment	
Aquatic Chronic	Hazardous to the aquatic environment (	chronic)
STOT RE	Specific target organ toxicity - repeated	exposure
Training guideline	5	
Inform the personne ways of handling the	l about the recommended ways of use, mandatory product.	protective equipment, first aid and prohibit
ways of handling the <b>Recommended res</b>	•	

not available

### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

### The changes (which information has been added, deleted or modified)

The first edition of the GB version of the safety data sheet.

### More information

Classification procedure - calculation method.

### Statement

according to Regulation (EC) No 1907/2006 (REACH) as amended

		EDTA		
Creation date	21st July 2023	Revision no.		
Revision date		Version	1	
			-	

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.

		SAFET	Y DATA SHEET	
	ассо	rding to Regulation (E	EC) No 1907/2006 (REACH) as an	nended
		CD3	APC/Ki-67 PE	
Creati	on date 21	st July 2023	Revision no.	
Revisi	on date		Version	1
SECT	ION 1: Identification of th	e substance/mixtu	re and of the company/under	taking
1.1.	Product identifier	-	CD3 APC/Ki-67 PE	-
	Substance / mixture		mixture	
	Number		ED7642-4	
1.2.	Relevant identified uses	of the substance o	r mixture and uses advised ag	gainst
	Mixture's intended use			
	diagnostic reagent			
	The use descriptors			
	SU 24	Scientific resear	rch and development	
	PC 21	Laboratory cher	micals	
	PROC 15	Use as laborato	ry reagent	
	Mixture uses advised ag	jainst		
	The product should not be	used in ways other the	nan those referred in Section 1.	
L.3.	Details of the supplier o	f the safety data sh	leet	
	Manufacturer			
	Name or trade name	2	EXBIO Praha, a.s.	
	Address		Nad Safinou II / 341,	Vestec, 25250
			Czech Republic	
	Phone		+420261090666	
	E-mail		orders@exbio.cz	
	Web address		www.exbio.cz	
	Competent person resp	onsible for the safe	-	
	Name		EXBIO Praha, a.s.	
	E-mail	_	orders@exbio.cz	
L.4.	Emergency telephone n			
	National Health Service (N National poisoning informa		NHS 24: 111	

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

## 2.1. Classification of the substance or mixture

**Classification of the mixture in accordance with Regulation (EC) No 1272/2008** The mixture is not classified as dangerous according to Regulation (EC) No 1272/2008.

Full text of all classifications and hazard statements is given in the section 16.

### 2.2. Label elements

none

### 2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

### SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

# Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 011-004-00-7 CAS: 26628-22-8 EC: 247-852-1	sodium azide	<0,099	Acute Tox. 2, H300+H330 Acute Tox. 1, H310 STOT RE 2, H373 (ingestion) Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) EUH032	1

according to Regulation (EC) No 1907/2006 (REACH) as amended

## CD3 APC/Ki-67 PE

Creation date Revision date Revision no. Version

1

### Notes

1 A substance for which exposure limits are set.

21st July 2023

Full text of all classifications and hazard statements is given in the section 16.

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

### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

### If inhaled

Terminate the exposure immediately; move the affected person to fresh air.

### If on skin

Remove contaminated clothes.

### If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person.

### If swallowed

Rinse out the mouth with clean water. In the event of issues, find medical help.

### 4.2. Most important symptoms and effects, both acute and delayed

### If inhaled

Possible irritation of airways, cough, headache.

If on skin Not expected.

If in eyes

Possible irritation.

## If swallowed

4.3.

Nausea, stomach pain, vomiting, diarrhoea.

Indication of any immediate medical attention and special treatment needed Symptomatic treatment.

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

### 5.1. Extinguishing media

Suitable extinguishing media Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist. Unsuitable extinguishing media Water - full jet. Special bazarde arising from the substance or mixture

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

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

## 5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves. Use a self-contained breathing apparatus and full-body protective clothing.

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

6.1. Personal precautions, protective equipment and emergency procedures

## Follow the instructions in the Sections 7 and 8.

- 6.2. Environmental precautions
- Prevent contamination of the soil and entering surface or ground water.

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

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13.

## 6.4. Reference to other sections

See the Section 7, 8 and 13.

according to Regulation (EC) No 1907/2006 (REACH) as amended

## CD3 APC/Ki-67 PE

Creation date Revision date Revision no. Version

FUAD (2005 Werkels of even over limits (Fourth Edition 2020)

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

### 7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

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

21st July 2023

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose.

## 7.3. Specific end use(s)

diagnostic reagent

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

United Kingdans

The mixture contains substances for which occupational exposure limits are set.

United Kingdom E	H40/2005 Wor	rkplace exposu	re limits (Fourth Edition 2020)
Substance name (component)	Туре	Value	Note
odium azide (as NaN3) (CAS: 26628-22-8)	WEL 8h	0,1 mg/m³	Can be absorbed through the skin. The assigned substances are those for which there are
	WEL 15min	0,3 mg/m³	concerns that dermal absorption will lead to systemic toxicity.

### 8.2. Exposure controls

Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

### Eye/face protection

Protective goggles.

Skin protection

Hand protection: Protective gloves resistant to the product.

### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

### Thermal hazard

Not available.

### Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

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

## 9.1. Information on basic physical and chemical properties

Appearance	
physical state	liquid at 20 °C
color	colourless
Odour	without fragrance
рН	data not available
Melting point/freezing point	data not available
Initial boiling point and boiling range	100 °C
Flash point	data not available
Flammability (solid, gas)	data not available
Upper/lower flammability or explosive limits	
explosive limits	data not available

according to Regulation (EC) No 1907/2006 (REACH) as amended

#### CD3 APC/Ki-67 PE Creation date Revision no. 21st July 2023 Revision date Version 1 Vapour pressure data not available Solubility(ies) solubility in water data not available Partition coefficient: n-octanol/water data not available Auto-ignition temperature data not available data not available Decomposition temperature Viscosity Kinematic viscosity data not available Density 1 g/cm<sup>3</sup> at 20 °C 9.2. **Other information** not available

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

### 10.1. Reactivity

The mixture is not reactive under normal conditions of use and storage. Sodium azide can react with metals contained in sewage to form lead or copper azide, which can explode on impact. When reacting with acids, sodium azide can release highly toxic hydrogen azide acid / hydrogen azide gas.

### 10.2. Chemical stability

The product is stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Sodium azide can react with metals contained in sewage to form lead or copper azide, which can explode on impact. **10.4.** Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

### 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

### 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

### Acute toxicity

Based on available data the classification criteria are not met.

sodium azide					
Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD50	27 mg/kg		Rat (Rattus norvegicus)	
Dermal	LD50	20 mg/kg		Rabbit	
Inhalation	LC50	0.054 mg/l	4 hours	Rat (Rattus norvegicus)	

### Skin corrosion/irritation

Based on available data the classification criteria are not met.

### Serious eye damage/irritation

Based on available data the classification criteria are not met.

according to Regulation (EC) No 1907/2006 (REACH) as amended

## CD3 APC/Ki-67 PE

Creation date Revision date

21st July 2023

Revision no. Version

1

### Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

### Germ cell mutagenicity

Based on available data the classification criteria are not met.

### Carcinogenicity

Based on available data the classification criteria are not met.

### **Reproductive toxicity**

Based on available data the classification criteria are not met.

### Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

### Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

#### Aspiration hazard

Based on available data the classification criteria are not met.

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

12.1. Toxicity

### not available Acute toxicity

### .....,

sodium azide					
Parameter	Value	Exposure time	Species	Environment	
EC50	5.6 mg/l	48 hours	Aquatic invertebrates		

### 12.2. Persistence and degradability

not available

## 12.3. Bioaccumulative potential

Not available.

**12.4.** Mobility in soil Not available.

## 12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

## **12.6.** Other adverse effects

Not available.

### SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

according to Regulation (EC) No 1907/2006 (REACH) as amended

## CD3 APC/Ki-67 PE

Creation date Revision date

21st July 2023

Revision no. Version

1

### Waste management legislation

Producer Responsibility Obligations (Packaging Waste) Regulations 2007 (S.I. No. 871 of 2007). Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

### **SECTION 14:** Transport information

### 14.1. UN number

not subject to transport regulations

- 14.2. UN proper shipping name
  - not relevant
- 14.3. Transport hazard class(es) not relevant
- 14.4. Packing group not relevant
- 14.5. Environmental hazards not relevant
- **14.6.** Special precautions for user Reference in the Sections 4 to 8.
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code not relevant

### **SECTION 15: Regulatory information**

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

Clean Air Act 1993 as amended. The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 as amended. Public health act 1961. Environmental Protection Act 1990 as amended. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

### 15.2. Chemical safety assessment

not available

### **SECTION 16: Other information**

### A list of standard risk phrases used in the safety data sheet

H310	Fatal in contact with skin.
H373	May cause damage to organs through prolonged or repeated exposure if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H300+H330	Fatal if swallowed or if inhaled.
A list of additional standard	phrases used in the safety data sheet
EUH032	Contact with acids liberates very toxic gas.
Other important information	n about human health protection
	ess specifically approved by the manufacturer/importer - used for purposes other than is responsible for adherence to all related health protection regulations.
Key to abbreviations and ac	ronyms used in the safety data sheet
ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service

according to Regulation (EC) No 1907/2006 (REACH) as amended

	<u>CD3 A</u>	PC/Ki-67 PE
Creation date	21st July 2023	Revision no.
Revision date		Version 1
CLP	Regulation (EC) substance and m	No 1272/2008 on classification, labelling and packaging of ixtures
EC	Identification cod	le for each substance listed in EINECS
ECso	Concentration of	a substance when it is affected 50% of the population
EINECS	European Invent	ory of Existing Commercial Chemical Substances
EmS	Emergency plan	
EU	European Union	
EuPCS	European Produc	t Categorisation System
IATA	International Air	Transport Association
IBC	International Coc Dangerous Chem	le For The Construction And Equipment of Ships Carrying icals
ICAO	International Civi	I Aviation Organization
IMDG	International Mar	itime Dangerous Goods
INCI	International Nor	nenclature of Cosmetic Ingredients
ISO	International Org	anization for Standardization
IUPAC	International Uni	on of Pure and Applied Chemistry
LC50	Lethal concentrat population	tion of a substance in which it can be expected death of 50% of the
LD50	Lethal dose of a s population	substance in which it can be expected death of 50% of the
log Kow	Octanol-water pa	rtition coefficient
MARPOL	International Cor	vention for the Prevention of Pollution from Ships
OEL	Occupational Exp	osure Limits
PBT	Persistent, Bioaco	cumulative and Toxic
ppm	Parts per million	
REACH	Registration, Eva	luation, Authorisation and Restriction of Chemicals
RID	Agreement on th	e transport of dangerous goods by rail
UN	Four-figure ident Model Regulation	ification number of the substance or article taken from the UN s
UVCB	Substances of un biological materia	known or variable composition, complex reaction products or als
VOC	Volatile organic c	
vPvB	Very Persistent a	nd very Bioaccumulative
Acute Tox.	Acute toxicity	
Aquatic Acute	Hazardous to the	aquatic environment
Aquatic Chronic		aquatic environment (chronic)
STOT RE	Specific target or	gan toxicity - repeated exposure
Training guidelines	:	
Inform the personnel ways of handling the <b>Recommended rest</b>	product.	ays of use, mandatory protective equipment, first aid and prohibit

not available

### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

### The changes (which information has been added, deleted or modified)

The first edition of the GB version of the safety data sheet.

### More information

Classification procedure - calculation method.

### Statement

according to Regulation (EC) No 1907/2006 (REACH) as amended

# CD3 APC/Ki-67 PE

Creation date	21st July 2023	Revision no.	
Revision date		Version	1

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.