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

TregFlowEx Kit

Date of creation Date of revision 21st July 2023

Version

1

PRODUCT IDENTIFICATION	
Cat. No.	Product name
ED7417	TregFlowEx Kit

COMPONENTS OF THE KIT				
Code	Name	Classification		
ED7417-1	Fix and Lysing Solution			
ED7417-2	Permeabilizing Solution	Not classified as hazardous.		
ED7417-3	Blocking Buffer	Not classified as hazardous.		
ED7417-4	CD4 FITC/CD25 PE			
ED7417-5	FOXP3 APC			

	ассо	rding to Regulation (E	EC) No 1907/2006 (REACH) as am	nended		
		Fix and	Lysing Solution			
Creati	on date 21s	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		Fix and Lysing Solutio	n		
	Substance / mixture		mixture			
	Number		ED7417-1			
1.2.	Relevant identified uses	of the substance o	or mixture and uses advised ag	jainst		
	Mixture's intended use					
	diagnostic reagent					
	The use descriptors					
	SU 24 Scientific research and development					
	PC 21 Laboratory chemicals					
	PROC 15	Use as laborato	ry reagent			
	Mixture uses advised ag					
			han those referred in Section 1.			
1.3.	Details of the supplier o	f the safety data sh	neet			
	Manufacturer					
	Name or trade name		EXBIO Praha, a.s.	N/		
	Address		Nad Safinou II / 341,	Vestec, 25250		
	Phone		Czech Republic +420261090666			
	E-mail		+420261090666 orders@exbio.cz			
	E-mail Web address		www.exbio.cz			
	Competent person resp	oncible for the cafe				
	Name		EXBIO Praha, a.s.			
	E-mail		orders@exbio.cz			
L.4.	Emergency telephone n	umber				
	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 classified as dangerous.

Acute Tox. 4, H302+H312+H332 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

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, in contact with skin or if inhaled.

		SAFETY DATA SHEET					
according to Regulation (EC) No 1907/2006 (REACH) as amended							
Fix and Lysing 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						
	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.					
	H302+H312+H332	Harmful if swallowed, in contact with skin or if inhaled.					
	Precautionary stateme						
	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.					
	P308+P313	IF exposed or concerned: Get medical advice/attention.					
	P314	Get medical advice/attention if you feel unwell.					
23	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%	<13	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	<4	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	EH40/2005 Workplace exposure limits (Fourth Edition 2020			
Substance name (component)	Туре	Value	Note	
2,2'-oxybisethanol (CAS: 111-46-6)	WEL 8h	101 mg/m ³		
2,2-0xybisethanol (CAS: 111-40-0)	WEL 8h	23 ppm		
	WEL 8h	2,5 mg/m ³		
formaldehyde% (CAS: 50-00-0)	WEL 8h	2 ppm		
Tormaldenyde% (CAS: 50-00-0)	WEL 15min	2,5 mg/m ³		
	WEL 15min	2 ppm		
	WEL 8h	266 mg/m ³		
	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 ³	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	64.7 - 245 °C
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.

When used in the standard way, there is not any dangerous reaction with other substances.

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, in contact with skin or if inhaled.

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

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

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	 Without prejudice to the other parts of this Annex the following shall apply to entries 28 to 30: 1. Shall not be placed on the market, or used, — as substances, — as constituents of other substances, or,
	 in mixtures, for supply to the general public when the individual concentration in the substance or mixture is equal to or greater than:
	- either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008, or,
	 the relevant generic concentration limit specified in Part 3 of Annex I of Regulation (EC) No 1272/2008.
	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".
	 2. By way of derogation, paragraph 1 shall not apply to: (a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC; (b) cosmetic products as defined by Directive 76/768/EEC; (c) the following fuels and oil products: motor fuels which are covered by Directive 98/70/EC,
	 mineral oil products intended for use as fuel in mobile or fixed combustion plants, fuels sold in closed systems (e.g. liquid gas bottles);
	 (d) artists' paints covered by Regulation (EC) No 1272/2008; (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.
	(f) devices covered by Regulation (EU) 2017/745.

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

Fix and Lysing Solution

21st July 2023

Creation date Revision date Revision no. Version

1

formaldehyde	%
Restriction	Conditions of restriction
72	 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 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).

methanol

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

A chemical safety assessment has not been carried out (mixture).

SECTION 16: Other information

A list of standard risk phrases used in t	the safety data sheet
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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	ausing genetic defects.		
H350	May cause can	cer.		
H370	Causes damage	e to organs.		
H371	May cause dam	lage to organs.		
H373	May cause dam swallowed.	nage to the kidneys through prolonged or repeated exposure if		
H301+H311+H33	31 Toxic if swallow	ved, in contact with skin or if inhaled.		
H302+H312+H33		lowed, in contact with skin or if inhaled.		
	afe handling used in the sa			
P201	-	instructions before use.		
P260	Do not breathe	•		
P264		id exposed parts of the body thoroughly after handling.		
P280	Wear protective	5		
P308+P313		concerned: Get medical advice/attention.		
P314		vice/attention if you feel unwell.		
	t information about human			
as per the Section	n 1. The user is responsible fo	pproved by the manufacturer/importer - used for purposes other tha r adherence to all related health protection regulations.		
	tions and acronyms used in			
ADR	European agree road	ement concerning the international carriage of dangerous goods by		
BCF	Bioconcentratio	on Factor		
CAS	Chemical Abstr	acts Service		
CLP	Regulation (EC substance and) No 1272/2008 on classification, labelling and packaging of mixtures		
EC	Identification c	ode for each substance listed in EINECS		
EINECS	European Inve	ntory of Existing Commercial Chemical Substances		
EmS	Emergency pla	n		
EU	European Unio			
EuPCS		uct Categorisation System		
IATA		ir Transport Association		
IBC	Dangerous Che			
ICAO		ivil Aviation Organization		
IMDG		laritime Dangerous Goods		
INCI		omenclature of Cosmetic Ingredients		
ISO		rganization for Standardization		
IUPAC		nion of Pure and Applied Chemistry		
LC50	population	ration of a substance in which it can be expected death of 50% of the		
LD50	Lethal dose of a population	a substance in which it can be expected death of 50% of the		
log Kow		partition coefficient		
MARPOL		onvention for the Prevention of Pollution from Ships		
OEL	Occupational E			
PBT		accumulative and Toxic		
ppm	Parts per millio			
REACH	-	valuation, Authorisation and Restriction of Chemicals		
RID	_	the transport of dangerous goods by rail		
UN	Model Regulation			
UVCB	biological mate			
VOC	Volatile organic			
vPvB	Very Persistent	and very Bioaccumulative		

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 Acute Tox. Acute toxicity Carc. Carcinogenicity 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.

	acco		EC) No 1907/2006 (REACH) as am	enueu		
		Permea	bilizing Solution			
Creati	on date 21s	st July 2023	Revision no.			
Revisi	on date		Version	1		
SECT	ION 1: Identification of th	e substance/mixtu	re and of the company/underta	aking		
1.1.	Product identifier	•	Permeabilizing Solution	-		
	Substance / mixture		mixture			
	Number		ED7417-2			
L .2.	Relevant identified uses	of the substance o	or mixture and uses advised ag	ainst		
	Mixture's intended use					
	diagnostic reagent					
	The use descriptors					
	SU 24	Scientific resear	rch and development			
PC 21 Laboratory chemicals						
	PROC 15	Use as laborato	ry 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 o	f the safety data sh	leet			
	Manufacturer					
	Name or trade name	2	EXBIO Praha, a.s.			
	Address		Nad Safinou II / 341, V	Nad Safinou II / 341, Vestec, 25250		
			Czech Republic			
	Phone		+420261090666			
	E-mail		orders@exbio.cz			
	Web address		www.exbio.cz			
	Competent person respo	onsible for the safe	ty data sheet			
	Name		EXBIO Praha, a.s.			
	E-mail		orders@exbio.cz			
.4.	Emergency telephone n	umber				
	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 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
CAS: 8047-15-2	saponin		Eye Irrit. 2, H319 STOT SE 3, H335	

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

Permeabilizing Solution

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Creation date Revision date	21st July 2023	Revision no. Version	1	
Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 151-21-3 EC: 205-788-1	Sodium dodecyl sulphate	<0,5	Flam. Sol. 2, H228 Acute Tox. 4, H302+H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Chronic 3, H412 Specific concentration limit: Eye Irrit. 2, H319: 10 % \leq C < 20 % Eye Dam. 1, H318: C \geq 20 %	
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 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

Nausea, stomach pain, vomiting, diarrhoea.

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, water spray jet, water mist. Unsuitable extinguishing media Water - full jet.

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

Permeabilizing Solution

Creation date

21st July 2023 Revision no.

Version

1

Revision date

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.

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.

United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)			
Substance name (component)	Туре	Value	Note	
adium acida (ac NaN2) (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	
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

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.

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

Permeabilizing Solution

Creation date Revision date Revision no. Version

1

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.

21st July 2023

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
pH	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
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	

SECTION 10: Stability and reactivity

10.1. Reactivity

9.2.

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

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.

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

Permeabilizing Solution

Creation date Revision date 21st July 2023

Revision no. Version

1

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	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.

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	

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

Permeabilizing Solution

Creation date Revision date

21st July 2023

Revision no. Version

1

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.

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 21st July 2023

Revision no. Version

15.2. Chemical safety assessment

not available

SECTION 16: Other information

populationLDsoLethal dose of a substance in which it can be expected death of 50% of the populationlog KowOctanol-water partition coefficientMARPOLInternational Convention for the Prevention of Pollution from ShipsOELOccupational Exposure LimitsPBTPersistent, Bioaccumulative and ToxicppmParts per millionREACHRegistration, Evaluation, Authorisation and Restriction of Chemicals	A list of standard risk phrase	es used in the safety data sheet
H315 Causes serious eye inritation. H318 Causes serious eye inritation. H319 Causes serious eye inritation. H335 May cause respiratory irritation. 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. H304+H330 Fatal if swallowed or if inhaled. H302+H332 Harmful if swallowed or if inhaled. H304+H330 Fatal if swallowed or if inhaled. H302+H332 Contact with acids liberates very toxic gas. Other important information about human health protection The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other the as per the Section 1. The user is responsible for adherence to all related health protection regulations. Key to abbreviations and acronyms used in the safety data sheet ADR ADR European agreement concerning the international carriage of dangerous goods by road SCF Bioconcentration Factor CAS Chemical Abstracts Service CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures Euroces European Product Categorisation System <td>H228</td> <td>Flammable solid.</td>	H228	Flammable solid.
H318Causes serious eye damage.H319Causes serious eye intration.H335May cause respiratory intration.H373May cause damage to organs through prolonged or repeated exposure if swallowed.H400Very toxic to aquatic life.H410Very toxic to aquatic life.H412Harmful to aquatic life with long lasting effects.H330+H332Harmful if swallowed or if inhaled.H304+H332Harmful if swallowed or if inhaled.Alist of additional standard phrases used in the safety data sheetEUH032Contact with acids liberates very toxic gas.Other important information = bout human health protectionThe product must not be - unless specifically approved by the manufacturer/importer - used for purposes other the as per the Section 1. The user is responsible for adherence to all related health protection regulations.Key to abbreviations and accomentation FactorCASChemical Abstracts ServiceCLPRegulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixturesECsoConcentration of a substance listed in EINECSECsoConcentration of a substance listed in EINECSELSoEuropean UnionEUNCSEuropean Union <trr>EUNCSE</trr>	H310	Fatal in contact with skin.
H319Causes serious eve irritation.H335May cause drange to organs through prolonged or repeated exposure if swallowed.H400Very toxic to aquatic life with long lasting effects.H411Very toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.H302+H330Fatal if swallowed or if inhaled.Alsot additional standard phrases used in the safety data sheetContact with acids liberates very toxic gas.Other important information about human health protectionContact with acids liberates very toxic gas.Other important information about human health protectionContact with acids liberates very toxic gas.ADREuropean agreement concerning the international carriage of dangerous goods by readADRConcentration FactorCASChemical Abstracts ServiceCLPRegulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixturesENSEuropean Inventory of Existing Commercial Chemical SubstancesENSEuropean Inventory of Existing Commercial Chemical SubstancesENSEuropean Inventory of Existing Commercial Chemical SubstancesENSEuropean Inventory of Construction And Equipment of Ships Carrying Dangerous ChemicalsINAInternational Ari Transport AssociationIBACInternational Ari Transport AssociationIBACInternational Ari Transport AssociationIBACInternational Momenclature of Cosmetic IngredientsINAInternational Momenclature of Cosmetic IngredientsISAInternational Momenclature of	H315	Causes skin irritation.
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H410Very toxic to aquatic life with long lasting effects.H412Harmful to aquatic life with long lasting effects.H300+H330Fatal if swallowed or if inhaled.H302+H332Harmful if swallowed or if inhaled.A list of additional standard phrases used in the safety data sheetEUH032Contact with acids liberates very toxic gas.Other important information about human health protectionThe product must not be - unless specifically approved by the manufacturer/importer - used for purposes other the as per the Section 1. The user is responsible for adherence to all related health protection regulations.Key to abbreviations and acronyms used in the safety data sheetADREuropean agreement concerning the international carriage of dangerous goods by roadBCFBioconcentration FactorCASChemical Abstracts ServiceCLPRegulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixturesECIdentification code for each substance listed in EINECSEDSoConcentration of a substance when it is affected 50% of the populationEINECSEuropean Inventory of Existing Commercial Chemical SubstancesEmsEuropean Product Categorisation SystemIATAInternational Code For The Construction And Equipment of Ships Carrying Dangerous ChemicalsICAOInternational Nomenclature of Cosmetic IngredientsISOInternational Maritime Dangerous GoodsINCIInternational Nomenclature of Substance in which it can be expected death of 50% of the populationIBCLethal dose of a substance in which it can be expected death o	H373	May cause damage to organs through prolonged or repeated exposure if swallowed.
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OELOccupational Exposure LimitsPBTPersistent, Bioaccumulative and ToxicppmParts per millionREACHRegistration, Evaluation, Authorisation and Restriction of Chemicals	log Kow	Octanol-water partition coefficient
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ppmParts per millionREACHRegistration, Evaluation, Authorisation and Restriction of Chemicals	OEL	Occupational Exposure Limits
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals	PBT	Persistent, Bioaccumulative and Toxic
	ppm	Parts per million
	REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID Agreement on the transport of dangerous goods by rail	RID	Agreement on the transport of dangerous goods by rail
UN Four-figure identification number of the substance or article taken from the UN Model Regulations	UN	

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

Permeabilizing Solution Creation date 21st July 2023 Revision no. Revision date Version 1 UVCB Substances of unknown or variable composition, complex reaction products or biological materials VOC Volatile organic compounds vPvB Very Persistent and very Bioaccumulative Acute Tox. Acute toxicity Aquatic Acute Hazardous to the aquatic environment Aquatic Chronic Hazardous to the aquatic environment (chronic) Eye Dam. Serious eye damage Flam. Sol. Flammable solid Skin Irrit. Skin irritation 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.

	_	OATA SHEET	
		C) No 1907/2006 (REACH) as amended	
		FITC/CD25 PE, FOXP3 A	PC
	21st July 2023	Revision no.	
evision date		Version 1	
ECTION 1: Identification of	the substance/mixtu	e and of the company/undertaking	
.1. Product identifier		Blocking Buffer, CD4 FITC/CD2	5 PE, FOXP3 APC
Substance / mixture		mixture	
Number		ED7417-3, ED7417-4, ED7417-	-5
2. Relevant identified u	ses of the substance o	r mixture and uses advised against	
Mixture's intended us	se		
diagnostic reagent			
The use descriptors			
SU 24		ch and development	
PC 21	Laboratory chen		
PROC 15	Use as laborator	ry reagent	
Mixture uses advised			
-		an those referred in Section 1.	
	r of the safety data sh	eet	
Manufacturer			
Name or trade na	me	EXBIO Praha, a.s.	
Address		Nad Safinou II / 341, Vestec, 2	25250
		Czech Republic	
Phone		+420261090666	
E-mail		orders@exbio.cz	
Web address		www.exbio.cz	
	sponsible for the safet	-	
Name		EXBIO Praha, a.s.	
E-mail 4. Emergency telephone	number	orders@exbio.cz	
National Health Service	(NHS) 111 mation centre Scotland,	NHC 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

Blocking Buffer, CD4 FITC/CD25 PE, FOXP3 APC

Creation date Revision date 21st July 2023

Revision no. Version

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 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

Blocking Buffer, CD4 FITC/CD25 PE, FOXP3 APC

Creation date Revision date _

FUAD (2005 Werkels of every limits (Fourth Edition 2020)

1

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.

Revision no.

Version

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	H40/2005 Wor	kplace exposu	re limits (Fourth Edition 2020)
Substance name (component)	Туре	Value	Note
sodium 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/m ³	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
pH	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

Blocking Buffer, CD4 FITC/CD25 PE, FOXP3 APC Creation date 21st July 2023 Revision no. Revision date Version 1 Vapour pressure data not available Solubility(ies) data not available solubility in water 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/cm³ at 20 °C 9.2. Other information not available

SECTION 10: Stability and reactivity

10.1. Reactivity

not available

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 azida

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.

Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

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

Blocking Buffer, CD4 FITC/CD25 PE, FOXP3 APC

Creation date Revision date Revision no. Version

1

Germ cell mutagenicity

Based on available data the classification criteria are not met.

21st July 2023

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.

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.

	5	SAFETY	DATA SHEET			
	according to I	Regulation (EC)	No 1907/2006 (REACH) as	amended		
	Blocking Buf	fer, CD4 F	ITC/CD25 PE, F	ОХРЗ АРС		
	on date 21st July 20 on date)23	Revision no. Version	1		
SECTI	ON 14: Transport information					
	UN number not subject to transport regulations	5				
14.2.	14.2. UN proper shipping name not relevant					
14.3.						
14.4.	Packing group not relevant					
14.5.						
14.6.						
14.7.	Transport in bulk according to A not relevant	Annex II of Ma	rpol and the IBC Code			

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	es 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
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EC50	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union

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

Blocking Buffer, CD4 FITC/CD25 PE, FOXP3 APC

Creation date	21st July 2023 Revision no.
Revision date	Version 1
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC50	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD50	Lethal dose of a substance in which it can be expected death of 50% of the population
log Kow	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
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 guidelines	5
Inform the personne ways of handling the	I about the recommended ways of use, mandatory protective equipment, first aid and prohibite 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.