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

# EXCELLYSE XPerm

Date of creation Date of revision 21st July 2023

Version

1

PRODUCT IDENTIFICATION	
Cat. No.	Product name
ED7397	EXCELLYSE XPerm

COMPONENTS OF THE KIT		
Code	Name	Classification
ED7397-1	XPerm Solution A	
ED7397-2	XPerm Solution B	Not classified as hazardous.

			EC) No 1907/2006 (REACH) as ame r <b>m Solution A</b>	
<u> </u>				
		t July 2023	Revision no.	1
kevisi	on date		Version	1
SECT	ON 1: Identification of the	substance/mixtu	ire and of the company/underta	king
1.1.	Product identifier		XPerm Solution A	
	Substance / mixture		mixture	
	Number		ED7397-1	
1.2.	Relevant identified uses	of the substance of	or mixture and uses advised aga	linst
	Mixture's intended use			
	diagnostic reagent			
	The use descriptors			
	SU 24	Scientific resea	rch and development	
	PC 21	Laboratory che	micals	
	PROC 15	Use as laborate	ory reagent	
	Mixture uses advised aga	ainst		
	The product should not be u	used in ways other t	han those referred in Section 1.	
L <b>.3.</b>	Details of the supplier of	the safety data s	heet	
	Manufacturer			
	Name or trade name		EXBIO Praha, a.s.	
	Address		Nad Safinou II / 341, V	estec, 25250
			Czech Republic	
	Phone		+420261090666	
	E-mail		orders@exbio.cz	
	Web address		www.exbio.cz	
	Competent person respo	nsible for the safe	ety data sheet	
	Name		EXBIO Praha, a.s.	
	E-mail		orders@exbio.cz	
L.4.	Emergency telephone nu	mber		
	National Health Service (NH	IS) 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

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. Harmful if swallowed.

#### 2.2. Label elements



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Hazardous sul	ostances			
formaldehyde methanol	%			
Hazard statem	ients			
H302	Harmful if swall	owed.		
H315	Causes skin irrit	ation.		
H317	May cause an a	llergic skin reaction.		
H319	Causes serious	eye irritation.		
H335	May cause respi	ratory irritation.		
H341	Suspected of ca	using genetic defects.		
H350	May cause canc	er.		
Precautionary	statements			
P201	Obtain special in	nstructions before use.		
P264	Wash hands and	d exposed parts of the body th	oroughly after handling.	
P280	Wear protective	gloves/protective clothing/ey	e protection.	
P301+P312	IF SWALLOWED	: Call a doctor if you feel unwe	ell.	
P302+P352	IF ON SKIN: Wa	ash with plenty of water and se	pap.	
P305+P351+P3		se cautiously with water for se nt and easy to do. Continue rir	everal minutes. Remove contact nsing.	
P308+P313	IF exposed or co	oncerned: Get medical advice/	'attention.	
P333+P313	If skin irritation	or rash occurs: Get medical a	dvice/attention.	
P362+P364	Take off contam	inated clothing and wash it be	efore reuse.	

### 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	3	Note
Index: 605-001-00-5 CAS: 50-00-0 EC: 200-001-8	formaldehyde%	<5	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	<2	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

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- 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.

#### 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.

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

#### If inhaled

4.2.

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.

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.

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

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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.

# 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 Wo	orkplace expos	ure limits (Fourth Edition 2020)
Substance name (component)	Туре	Value	Note
	WEL 8h	2,5 mg/m <sup>3</sup>	
formaldehyde = 0/(CAS, E0.00.0)	WEL 8h	2 ppm	
formaldehyde% (CAS: 50-00-0)	WEL 15min	2,5 mg/m <sup>3</sup>	
	WEL 15min	2 ppm	
methanol (CAS: 67-56-1)	WEL 8h	266 mg/m <sup>3</sup>	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.

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

Substance name (component)	Туре	Value	Note
	WEL 8h	200 ppm	
methanol (CAS: 67-56-1)	WEL 15min	333 mg/m³	Can be absorbed through the skin. The assigned substances are those for which there are 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.

#### **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

liquid at 20 °C
colourless
characteristic, sweet / pungent
data not available
data not available
data not available

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solubility in	water	soluble		
Partition coefficient	cient: n-octanol/water	data not available		
Auto-ignition temperature		data not available		
Decomposition temperature		data not available		
Viscosity				
Kinematic viscosity		data not available		
9.2. Other informa	ation			
not available				

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

#### 10.1. Reactivity

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.

#### Acute toxicity

Harmful if swallowed.

#### 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.

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#### 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
- **12.2.** Persistence and degradability Data 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

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#### 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).

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

formaldehyde ...%

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,
	<ul> <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>
	<ul> <li>– either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008, or,</li> </ul>
	- 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".
	<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:</li> </ul>
	<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 assumed by Desylation (FG) No 1272 (2008).</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.

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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:
	<ul><li>(a) clothing or related accessories;</li><li>(b) textiles other than clothing which, under normal or reasonably foreseeable conditions of use,</li></ul>
	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 ar
	the substance is present in a concentration, measured in homogeneous material, equal to or great
	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 ar
	designed to be used only once or for a limited time and are not intended for subsequent use for th
	same or a similar purpose.
	6. Paragraphs 1 and 2 shall apply without prejudice to the application of any stricter restrictions se
	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 of
	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 (E
	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 phrase	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.			

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H341	Suspected of causing genetic defects.				
H350	May cause cancer.				
H370	Causes damage to organs.				
H371	May cause damage to organs.				
H301+H311+H3					
	safe handling used in the safety data sheet				
P201	Obtain special instructions before use.				
P264	Wash hands and exposed parts of the body thoroughly after handling.				
P280	Wear protective gloves/protective clothing/eye protection.				
P301+P312	IF SWALLOWED: Call a doctor if you feel unwell.				
P302+P352	IF ON SKIN: Wash with plenty of water and soap.				
P305+P351+P33					
P308+P313	IF exposed or concerned: Get medical advice/attention.				
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.				
P362+P364	Take off contaminated clothing and wash it before reuse.				
Other importa	nt information about human health protection				
	st not be - unless specifically approved by the manufacturer/importer - used for purposes other than on 1. The user is responsible for adherence to all related health protection regulations.				
_	ations and acronyms 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				
EINECS	European Inventory of Existing Commercial Chemical Substances				
EmS	Emergency plan				
EU	European Union				
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				
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				
Carc.	Carcinogenicity				
Flam. Liq.	Flammable liquid				

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Muta.	Germ cell mutag	genicity		
Skin Corr.	Skin corrosion			
Skin Sens.	Skin sensitizatio	n		
STOT SE	Specific target o	organ toxicity - single exposur	e	
Training guide	elines			
Inform the pers ways of handlir	sonnel about the recommended v ng the product.	vays of use, mandatory prote	ctive equipment, first aid a	nd prohibited
Recommende	d restrictions of use			
not available				
Information a	bout data sources used to cor	npile the Safety Data Shee	t	
REGULATION (	EC) No. 1907/2006 OF THE EUF EC) No. 1272/2008 OF THE EUR er of the substance / mixture, if a	OPEAN PARLIAMENT AND OF	THE COUNCIL as amende	
The changes (	(which information has been a	added, deleted or modified	)	
The first edition	n of the GB version of the safety of	data sheet.		
More information	tion			
Classification p	rocedure - 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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	ассо	rding to Regulation (E	C) No 1907/2006 (REACH) as a	amended
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SECT	ON 1: Identification of th	e substance/mixtur	e and of the company/unde	ertaking
L.1.	Product identifier	-	XPerm solution B	-
	Substance / mixture		mixture	
	Number		ED7397-2	
. <b>2</b> .	Relevant identified uses	s of the substance or	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 chem	nicals	
	PROC 15	Use as laborator	y reagent	
	Mixture uses advised ag	gainst		
	The product should not be	used in ways other th	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 / 34	1, Vestec, 25250
			Czech Republic	
	Phone		+420261090666	
	E-mail		orders@exbio.cz	
	Web address		www.exbio.cz	
	Competent person resp	onsible for the safet	y data sheet	
	Name		EXBIO Praha, a.s.	
	E-mail		orders@exbio.cz	
.4.	Emergency telephone n	umber		
	National Health Service (N			
	National poisoning informa	ation 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 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		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

#### XPerm solution B Revision no. Creation date 21st July 2023 Revision date Version 1 Content in Classification according to Identification numbers Substance name Note Regulation (EC) No 1272/2008 % weight Index: 607-429-00-8 edetic acid <0,1 Eye Irrit. 2, H319

### Notes

CAS: 60-00-4 EC: 200-449-4

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, 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 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 After removal of the product, wash the contaminated site with plenty of water.

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#### 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

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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.

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	concerns that d absorption will toxicity.	concerns that dermal absorption will lead to systemi 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

### It is not needed.

### Skin protection

When handling in long-term or repeatedly, use protective gloves.

#### **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

liquid at 20 °C
colourless
without fragrance
data not available
data not available
data not available

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

#### XPerm solution B Creation date Revision no. 21st July 2023 Revision date Version 1 Flash point data not available data not available Flammability (solid, gas) 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 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.

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#### 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		

#### 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**

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

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#### 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).

#### 15.2. Chemical safety assessment

not available

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

A list of standard risk	c phrases used in the safety data sheet
H310	Fatal in contact with skin.
H319	Causes serious eye 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.
H300+H330	Fatal if swallowed or if inhaled.
A list of additional sta	andard phrases used in the safety data sheet
EUH032	Contact with acids liberates very toxic gas.
Other important info	rmation about human health protection

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	be - unless specifically approved by the manufacturer/importer - used for purposes of the user is responsible for adherence to all related health protection regulations.	other tha	
Key to abbreviation	s and acronyms used in the safety data sheet		
ADR	European agreement concerning the international carriage of dangerous goo road	ods by	
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		
EC₅o	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		
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 <sup>r</sup> population	% of the	
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		
	Agreement on the transport of dangerous goods by rail		
RID UN	Four-figure identification number of the substance or article taken from the		
	Model Regulations		
UVCB	Substances of unknown or variable composition, complex reaction products biological materials	OF	
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 Irrit.	Eye irritation		
STOT RE	Specific target organ toxicity - repeated exposure		
Training guideline			
	about the recommended ways of use, mandatory protective equipment, first aid and product.	prohibit	
Recommended res			
not available			
	lata 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.

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#### More information

Classification procedure - calculation method.

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#### 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.