according to WHS Regulations (Hazardous Chemicals)

Version

## SpermFlowEx Kit

Date of creation Date of revision 20th November 2023

1

 PRODUCT IDENTIFICATION

 Cat. No.
 Product name

 ED7079
 SpermFlowEx Kit

COMPONENTS OF THE KIT		
Code	Name	Classification
ED7079-1	Intra-acrosomal protein FITC	Not classified as hazardous.
ED7079-2	CD45 PE-Cy™5	Not classified as hazardous.
ED7079-3	Fluorescent Count Standard	Not classified as hazardous.
ED7079-4	Propidium iodide	Not classified as hazardous.
ED7079-5	Permeabilizing Solution	

#### SAFETY DATA SHEET according to WHS Regulations (Hazardous Chemicals) **Permeabilizing Solution** 20th November 2023 Creation date Revision date Version 1 SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. **Product identifier** Permeabilizing Solution Substance / mixture mixture Number ED7079-5 1.2. Relevant identified uses of the substance or mixture and uses advised against Mixture's intended use Diagnostic reagent Mixture uses advised against The product should not be used in ways other then those referred in Section 1. Details of the supplier of the safety data sheet 1.3. Supplier/Local address Name or trade name Sysmex Australia Pty Ltd Address Suite 3, Level 5 15 Talavera Rd Macquarie Park NSW 2113 Phone +61 2 9016 3040 Manufacturer Name or trade name EXBIO Praha, a.s. Address Nad Safinou II / 341, Vestec, 25250 Czech Republic Phone +420261090666 E-mail orders@exbio.cz Web address www.exbio.cz Competent person responsible for the safety data sheet Name EXBIO Praha, a.s. E-mail orders@exbio.cz 1.4. **Emergency telephone number** For medical advice (English): 13 11 26 (Poisons Information Centre)

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

## 2.1. Classification of the substance or mixture

The mixture is classified as dangerous.

Flam. Liq. 3, H226

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

# Most serious adverse effects on human health and the environment Flammable liquid and vapour.

### 2.2. Label elements

Hazard pictogram



Signal word Warning

Hazardous substances ethanol

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Hazard statements	
H226	Flammable liquid and vapour.
Precautionary statements	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe vapours.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to in accordance with local regulations.
Other hazards	

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

#### 3.2. Mixtures

2.3.

# 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
Index: 603-002-00-5 CAS: 64-17-5 EC: 200-578-6 Registration number: 01-2119457610-43- XXXX	ethanol	<50	Flam. Liq. 2, H225

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.

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

#### If inhaled

Possible irritation of airways, cough, headache. If on skin

Repeated exposure may cause skin dryness or cracking.

## 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 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**

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

Provide sufficient ventilation. Flammable liquid and vapour. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8.

#### 6.2. **Environmental precautions**

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

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

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

#### 6.4. **Reference to other sections** See the Section 7, 8 and 13.

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

#### 7.1. Precautions for safe handling

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. No smoking. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take action to prevent static discharges.

#### 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. Do not expose to sunlight. Keep container tightly closed. Keep cool.

### The specific requirements or rules relating to the substance/mixture

Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

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### 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	Notes
	TWA	1000 ppm	
ethanol (CAS: 64-17-5)	TWA	1880 mg/m <sup>3</sup>	

#### 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

Physical state Colour Odour Melting point/freezing point Boiling point or initial boiling point and boiling range Flammability	liquid colourless containing alcohol data not available 78 °C data not available
Lower and upper explosion limit	
bottom	3,3 %
upper	19 %
Flash point	>24 °C
Auto-ignition temperature	363 °C
Decomposition temperature	data not available
рН	data not available
Kinematic viscosity	data not available
Solubility in water	data not available
Partition coefficient n-octanol/water (log value)	-0,349
Vapour pressure	data not available
Density and/or relative density	data not available
Relative vapour density	data not available
Particle characteristics	data not available

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#### 9.2. Other information

not available

#### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The mixture is flammable.

## 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

Based on available data the classification criteria are not met.

#### Skin corrosion/irritation

Prolonged or repeated contact with the product causes skin degreasing and drying.

#### Serious eye damage/irritation

May cause irritation and reversible damage if in contact with eyes.

#### 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.

#### 11.2. Information on other hazards

The mixture does not contain substances with endocrine disrupting properties.

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

#### 12.1. Toxicity

Acute toxicity

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# 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 Not available.

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- **12.6.** Endocrine disrupting properties None of the ingredients are listed.
- **12.7.** 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.

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

#### 14.1. UN number or ID number UN 1170

- 14.2. UN proper shipping name ETHANOL SOLUTION
- 14.3. Transport hazard class(es)3 Flammable liquids

## 14.4. Packing group

III – substances presenting low danger

- 14.5. Environmental hazards
- not relevant

#### **14.6.** Special precautions for user Reference in the Sections 4 to 8.

14.7. Maritime transport in bulk according to IMO instruments not relevant

### Additional information

Hazard identification No. UN number Classification code Safety signs



30

1170

## Air transport – ICAO/IATA

Packaging instructions passenger Cargo packaging instructions	355 366	
Marine transport – IMDG		
EmS (emergency plan)	F-E, S-D	
MFAG	305	

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SECTI	ON 15: Regulatory	y information
L <b>5.1</b> .	Safety, health a	nd environmental regulations/legislation specific for the substance or mixture
	Classifications	Safe Work Australia criteria is based on the Globally Harmonised System (GHS) Classification and Labelling of Chemicals (GHS Revision 7).
	Inventory listings	AUSTRALIA: AIIC (Australian Inventory of Industrial Chemicals) - All components an listed on AIIC, or are exempt.
		Australia Hazardous Chemical Information System (HCIS)
		Australian Inventory of Chemical Substances (AICS) - All ingredients are listed or exem from listing
L <b>5.2</b> .		
	not available	

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
Guidelines for safe handlir	ng used in the safety data sheet
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to in accordance with local regulations.
P260	Do not breathe spray.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P302+P352 P305+P351+P338	IF ON SKIN: Wash with plenty of water and soap.
P303+P351+P356	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Other important information	n about human health protection
-	ess specifically approved by the manufacturer/importer - used for purposes other than as
per the Section 1. The user is	responsible for adherence to all related health protection regulations.
ADR	cronyms used in the safety data sheet European agreement concerning the international carriage of dangerous goods by
ADR	road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of
	substance and mixtures
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
ES	Identification code for each substance listed in EINECS
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% of the
	population
LD50	Lethal dose of a substance in which it can be expected death of 50% of the
log Kow	population
log Kow	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships
OEL	Occupational Exposure Limits

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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	
SWA (Australia)	Safe Work Australia	
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	
Eye Irrit.	Eye irritation	
Flam. Liq.	Flammable liquid	
Muta.	Germ cell mutagenicity	
Skin Corr.	Skin corrosion	
Skin Irrit.	Skin irritation	
Skin Sens.	Skin sensitization	
STOT RE	Specific target organ toxicity - repeated exposure	
STOT SE	Specific target organ toxicity - single exposure	
Training guideli	nes	
Inform the persor ways of handling	nnel about the recommended ways of use, mandatory protective equipment, first aid and prohibit the product.	
Recommended I	restrictions of use	
not available		
Information abo	ut data sources used to compile the Safety Data Sheet	
Australian Code o	f Practice on Preparation of Safety Data Sheets for Hazardous Chemicals, July 2020	
The changes (w	hich information has been added, deleted or modified)	
The first edition o	f the GHS (rev.7) version of the safety data sheet	
More informatio	n	
Classification proc	edure - 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.