

## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

#### HPBMC Peripheral Blood Mono, 100M cryo

Version 3.0		Revision Date 26.04.2024	Print Date 02.01.2025		
SECTION 1: Identification of the substance/mixture and of the company/undertaking					
1.1 Product identifier					
Product name	:	HPBMC Peripheral Blood Mono, 100M cr	уо		
Material number	:	CC-2703P			
1.2 Relevant identified uses of the subs	stan	ice or mixture and uses advised against			
Use of the Substance/Mixture	:	For research use only.			
Recommended restrictions on use	:	NOT FOR USE IN GMP MANUFACTURI OR ANIMAL IN VIVO OR DIAGNOSTIC U			
1.3 Details of the supplier of the safety	dat	a sheet			
Company	:	Lonza Ltd Muenchensteinerstrasse 38 CH-4002 Basel, Switzerland Business Telephone: +41 61 316 81 11			
		Lonza Verviers Sprl Parc Industriel de Petit-Rechain BE-4800 Verviers, Belgium Business Telephone: +32 8732 1611			
		<b>Lonza Cologne GmbH</b> Nattermannallee 1 DE-50829 Köln, Germany Business Telephone: + 49 221 99 1990			
E-mail address / Responsible/issuing person	:	sds@lonza.com			
1.4 Emergency telephone number					
Emergency telephone number	:	Lonza Ltd, CH-4002 Basel, Switzerland Telephone: +41 61 313 94 94 (24h)			

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

#### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

#### 3.2 Mixtures

Components Remarks

: No hazardous ingredients

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

4.1 Description of first aid measures	
If inhaled :	Move to fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact :	Wash with water and soap as a precaution. If on clothes, remove clothes. In the case of skin irritation or allergic reactions see a physician.
In case of eye contact :	Flush eyes with water as a precaution. Remove contact lenses. Keep eye wide open while rinsing. Protect unharmed eye. If eye irritation persists, consult a specialist.
If swallowed :	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
4.2 Most important symptoms and effects	s, both acute and delayed

Symptoms : No information available.

#### **4.3 Indication of any immediate medical attention and special treatment needed** Treatment : Treat symptomatically.

 SECTION 5: Firefighting measures

 5.1 Extinguishing media

 Suitable extinguishing media
 : Water spray

 Unsuitable extinguishing media
 : High volume water jet

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

Hazardous combustion products : Carbon oxides (COx) Sulphur oxides (SOx)	
5.3 Advice for firefighters	
Special protective equipment for firefighters: In the event of fire, wear self-contained breathing appar Use personal protective equipment.	atus.
Further information : Use a water spray to cool fully closed containers.	

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

6.1 Personal precautions, protective equipment and emergency procedures				
Personal precautions	:	Use personal protective equipment.		
<b>6.2 Environmental precautions</b> Environmental precautions	:	Try to prevent the material from entering drains or water courses.		
6.3 Methods and material for containment and cleaning up				

Methods for cleaning up	: Contain spillage, and then collect with non-combustible
	absorbent material, (e.g. sand, earth, diatomaceous earth,
	vermiculite) and place in container for disposal according to
	local / national regulations (see section 13).

#### 6.4 Reference to other sections

For personal protection see section 8.

For disposal considerations see section 13.

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

### 7.1 Precautions for safe handling

Advice on safe handling	:	No special precautions required. For personal protection see section 8.			
Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.			
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice.			
7.2 Conditions for safe storage, including any incompatibilities					
Requirements for storage areas and	:	Keep container tightly closed. Keep in a well-ventilated place.			

containers	•••	To maintain product quality, do not store in heat or direct sunlight.
Advice on common storage		No appoint restrictions on storage with other products

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Further information on storage stability

: No decomposition if stored and applied as directed.

#### 7.3 Specific end use(s)

Specific use(s)

: No information available.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

Countries not listed may have their own country specific values.

#### **Occupational Exposure Limits**

#### Switzerland

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Dimethyl sulfoxide	67-68-5	STEL	100 ppm 320 mg/m3	CH SUVA
		TWA	50 ppm 160 mg/m3	CH SUVA

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

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Substance name	End Use	Exposure routes	Potential health effects	Value
Dimethyl sulfoxide	Workers	Inhalation	Long-term systemic effects	394 mg/m3
	Workers	Skin contact	Long-term systemic effects	400 mg/kg
	Consumers	Skin contact	Long-term systemic effects	200 mg/kg
	Consumers	Oral	Long-term systemic effects	100 mg/kg
	Consumers	Inhalation	Long-term systemic effects	70 mg/m3
	Workers	Inhalation	Long-term systemic effects	484 mg/m3
	Workers	Inhalation	Long-term local effects	265 mg/m3
	Workers	Dermal	Long-term systemic effects	200 mg/kg
	Consumers	Inhalation	Long-term systemic effects	120 mg/m3
	Consumers	Inhalation	Long-term local effects	47 mg/m3
	Consumers	Dermal	Long-term systemic effects	100 mg/kg
	Consumers	Oral	Long-term systemic effects	60 mg/kg

#### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Dimethyl sulfoxide	Fresh water	17 mg/l
	Oral	700 mg/kg
	Sewage treatment plant	11 mg/l
	Soil	3,02 mg/kg
	Sediment	13,4 mg/kg
	Marine water	1,7 mg/l

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#### 8.2 Exposure controls

### Engineering measures

Use only in area provided with appropriate exhaust ventilation.

Personal protective equipment Eye protection	:	Safety glasses
Hand protection Remarks	:	Wear protective gloves. Break through time : > 480 min
Skin and body protection	:	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Lightweight protective clothing
Respiratory protection	:	No personal respiratory protective equipment normally required. In the case of vapour formation use a respirator with an approved filter.

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

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

Physical state	:	liquid
Appearance	:	frozen liquid
Colour	:	No data available
Odour	:	No data available
Melting point/freezing point	:	No data available
Boiling point/boiling range	:	No data available
Flammability	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature Decomposition temperature	:	No data available
рН	:	No data available
Viscosity Viscosity, kinematic	:	No data available
Solubility(ies)		

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Water solubility	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Vapour pressure	:	No data available
Relative density	:	No data available
Density	:	No data available
Relative vapour density	:	No data available
Particle characteristics	:	No data available

#### 9.2 Other information

No data available

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

#### **10.1 Reactivity**

No decomposition if stored and applied as directed.

<b>10.2 Chemical stability</b> Stable under recommended storage conditions.			
10.3 Possibility of hazardous reactions			
Hazardous reactions :	Stable under recommended storage conditions. No hazards to be specially mentioned.		
10.4 Conditions to avoid			
Conditions to avoid :	Heat		
10.5 Incompatible materials			
Materials to avoid :	Oxidizing agents Strong acids and strong bases		

#### **10.6 Hazardous decomposition products**

No decomposition if used as directed.

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

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Acute oral toxicity	: Remarks: No data available
Acute inhalation toxicity	: Remarks: No data available
Acute dermal toxicity	: Remarks: No data available
Skin corrosion/irritation	

Remarks: No data available

#### Serious eye damage/eye irritation

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		Remarks: No data available
Respiratory or skin sensitisation		Remarks: No data available
Germ cell mutagenicity Genotoxicity in vitro	:	Remarks: No data available
Carcinogenicity		Remarks: No data available
<b>Reproductive toxicity</b> Effects on fertility	:	Remarks: No data available
STOT - single exposure		Remarks: No data available
STOT - repeated exposure		Remarks: No data available
Aspiration toxicity		No aspiration toxicity classification
11.2 Information on other hazards		
Endocrine disrupting properties Assessment	:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Further information		Remarks: No data available
SECTION 12: Ecological information	n	
<b>12.1 Toxicity</b> Toxicity to fish	:	Remarks: No data available
<b>12.2 Persistence and degradability</b> Biodegradability	:	Remarks: No data available
<b>12.3 Bioaccumulative potential</b> Bioaccumulation	:	Remarks: No data available
12.4 Mobility in soil		

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Distribution among environmental compartments	Remarks: No data available		
12.5 Results of PBT and vPvB assessme	nt		
Assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.		
12.6 Endocrine disrupting properties			
Endocrine disrupting potential	<ul> <li>The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.</li> </ul>		
<b>12.7 Other adverse effects</b> Additional ecological information	No data available		

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

13.1 Waste treatment methods		
Product	:	Dispose of contents/container in accordance with local regulation. Contact waste disposal services.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal.

# **SECTION 14: Transport information**

ΙΑΤΑ		Not dangerous goods
14.1 14.2 14.3 14.4 14.5	UN number Proper shipping name Transport hazard class(es) Packing group Environmental hazards	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>no</li> </ul>
IMDG		Not dangerous goods
14.1 14.2 14.3 14.4 14.5	UN number Proper shipping name Transport hazard class(es) Packing group Environmental hazards	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Marine pollutant: no</li> </ul>

# HPBMC Peripheral Blood Mono, 100M cryo

ADR		: Not dangerous goods
14.1 14.2 14.3 14.4 14.5 RID	UN number Proper shipping name Transport hazard class(es) Packing group Environmental hazards	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>no</li> <li>Not dangerous goods</li> </ul>
14.1 14.2 14.3 14.4 14.5	UN number Proper shipping name Transport hazard class(es) Packing group Environmental hazards	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>no</li> </ul>
DOT		: Not dangerous goods
14.1 14.2 14.3 14.4	UN number Proper shipping name Transport hazard class(es) Packing group	<ul><li>Not applicable</li><li>Not applicable</li><li>Not applicable</li><li>Not applicable</li><li>Not applicable</li></ul>
TDG		: Not dangerous goods
14.1 14.2 14.3 14.4 14.5	UN number Proper shipping name Transport hazard class(es) Packing group Environmental hazards	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>no</li> </ul>

#### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

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

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture						
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Not applicable				
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable				
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable				

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Regulation (EU) 2019/1021 on persistent organic pollutants : Not applicable (recast)

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable

Water hazard class (Germany)

: WGK 1 slightly hazardous to water

#### 15.2 Chemical safety assessment

not required

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

#### Full text of other abbreviations

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road: ATE -Acute Toxicity Estimate: AwSV - Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen / Ordinance on facilities for handling substances that are hazardous to water: BPR - Biocidal Product Regulation; bw - Body weight; CAS - Chemical Abstract Service; CLP - Classification Labelling Packaging Regulation, Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DNEL-Derived No Effect Level; DOT - Department of Transportation; EC – European Community; ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; EmS (Emergency Response Procedures for Ships Carrying Dangerous Goods); EN – European Standard; ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; EU OEL - European Occupational Exposure Limit; GHS -Globally Harmonized System of Classification and Labelling of Chemicals; GLP - Good Laboratory Practice; GV - Danish Exposure Limits for Substances and Materials; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; IMDG - International Maritime Dangerous Goods; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); LOFT - Danish Threshold Limit Value; MAK - German Threshold Limit Value; MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NIOSH/Guide - National Institute of Safety and Health Guidebook; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NTP -National Toxicology Program; OECD - Organization for Economic Co-operation and Development; PBT -Persistent, Bioaccumulative and Toxic substance: PEL - Permissible Exposure Limit; PNEC - Predicted no Effect Concentration; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; REL -Recommended Exposure Limit; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; STEL - Short-Term Exposure Limit; TDG - Transportation of Dangerous Goods; TGG -Dutch Threshold Limit Value; TGV – Swedish OEL; TLV Threshold Limit Value; TLV-C - Threshold Limit Value Ceiling; TWA -Time Weighted Average; UDS - Unscheduled DNA Synthesis; UN - United Nations; VLE - Valeurs limites d'exposition professionnelle aux agents chimiques en France; VME - Valeur (Limite) Moyenne d'Exposition; VOC - Volatile Organic Compound[s]; WEEL - Workplace Environmental Exposure Level; % w/w Percent weight by weight; %(V) Percent Volume

#### Further information

Other information

: This Safety Data Sheet is a generic European Safety Data Sheet and therefore does not contain all specific information for each European country.

Date format

: dd.mm.yyyy

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