

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Human PBMCs (psoriasis)

Version 3.0	Revision Date 11.12.2021 Print Date 11.11.2022				
SECTION 1: Identification of the substance/mixture and of the company/undertaking					
1.1 Product identifier					
Product name	:	Human PBMCs (psoriasis)			
Material number	:	00219738			
1.2 Relevant identified uses of the sub	sta	nce or mixture and uses advised against			
Use of the Substance/Mixture	:	Scientific research and development			
1.3 Details of the supplier of the safety	' da	ta 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			
		Lonza Cologne GmbH Nattermannallee 1 DE-50829 Köln, Germany Business Telephone: + 49 221 99 1990			
		Lonza Copenhagen ApS Strandhaven 12 DK-2665 Vallensbaek Strand, Denmark Business Telephone: + 45 4356 7400			
E-mail address / Responsible/issuing person)	sds@lonza.com			
1.4 Emergency telephone number					
Emergency telephone number	:	E 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.

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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.

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	:	No special precautions required.
In case of skin contact	:	Wash with water and soap as a precaution. If skin irritation persists, call a physician.
In case of eye contact	:	Immediately flush eye(s) with plenty of water. If eye irritation persists, consult a specialist.
If swallowed	:	Immediately give large quantities of water to drink. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms :	No information available.
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4.3 Indication of any immediate medical attention and special treatment needed

Treatment

: No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

: Water spray Dry powder Foam

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products : Carbon oxides (Cox)

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		Sulphur oxides (SOx)
5.3 Advice for firefighters		
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.
Further information	:	Use water spray to cool unopened containers.
SECTION 6: Accidental release m	neasu	res
6.1 Personal precautions, protective	equip	ment and emergency procedures
Personal precautions	:	Use personal protective equipment.
6.2 Environmental precautions		
Environmental precautions	:	Prevent product from entering drains.
6.3 Methods and material for contain	ment	and cleaning up
Methods for cleaning up		Contain spillage, and then collect with non-combustible
Methods for cleaning up	•	absorbent material, (e.g. sand, earth, diatomaceous earth,
	0	vermiculite) and place in container for disposal according to local / national regulations (see section 13).
For personal protection see sectio		vermiculite) and place in container for disposal according to
For personal protection see sectio SECTION 7: Handling and storag		vermiculite) and place in container for disposal according to
For personal protection see sectio SECTION 7: Handling and storag		vermiculite) and place in container for disposal according to
For personal protection see sectio SECTION 7: Handling and storag 7.1 Precautions for safe handling	e :	vermiculite) and place in container for disposal according to local / national regulations (see section 13).
SECTION 7: Handling and storag 7.1 Precautions for safe handling Advice on safe handling Advice on protection against fire a	e :	vermiculite) and place in container for disposal according to local / national regulations (see section 13). No special precautions required.
For personal protection see section SECTION 7: Handling and storag 7.1 Precautions for safe handling Advice on safe handling Advice on protection against fire a explosion Hygiene measures	e : nd : :	vermiculite) and place in container for disposal according to local / national regulations (see section 13). No special precautions required. Take precautionary measures against static discharges. Handle in accordance with good industrial hygiene and safety practice.
For personal protection see section SECTION 7: Handling and storag 7.1 Precautions for safe handling Advice on safe handling Advice on protection against fire a explosion Hygiene measures 7.2 Conditions for safe storage, inclu	e nd : : uding	vermiculite) and place in container for disposal according to local / national regulations (see section 13). No special precautions required. Take precautionary measures against static discharges. Handle in accordance with good industrial hygiene and safety practice.
For personal protection see section SECTION 7: Handling and storag 7.1 Precautions for safe handling Advice on safe handling Advice on protection against fire a explosion Hygiene measures 7.2 Conditions for safe storage, inclu- Requirements for storage areas an	e nd : : uding	vermiculite) and place in container for disposal according to local / national regulations (see section 13). No special precautions required. Take precautionary measures against static discharges. Handle in accordance with good industrial hygiene and safety practice. any incompatibilities

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	SMAK
		TWA	50 ppm 160 mg/m3	SMAK

Germany

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Dimethyl sulfoxide	67-68-5	МАК	50 ppm 160 mg/m3	DFG MAK
Peak-limit: excursior (category)	factor	Peak-limit: excursion	on factor (category) 2	
			50 ppm 160 mg/m3	TRGS 900
Peak-limit: excursion (category)	factor	Peak-limit: excursion	on factor (category) 2	

Denmark

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Dimethyl sulfoxide	67-68-5	GV	50 ppm 160 mg/m3	GV (DK)

Sweden

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Dimethyl sulfoxide	67-68-5	TWA	50 ppm 150 mg/m3	SWO
		STEL	150 ppm 500 mg/m3	SWO

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

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



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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

8.2 Exposure controls

Engineering measures Avoid splashes.	
Personal protective equipment	
Eye protection	: Tightly fitting safety goggles
Hand protection Material Rate of permeability	 Nitrile rubber > 480 min
Skin and body protection	 Choose body protection according to the amount and concentration of the dangerous substance at the work place. No special protective equipment required.
Respiratory protection	 No personal respiratory protective equipment normally required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	liquid
Appearance	:	Aqueous solution
Colour	:	opaque
Odour	:	no data available
Melting point/freezing point	:	no data available
Initial boiling point and boiling range	:	no data available

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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	:	7,14 - 7,48
Viscosity Viscosity, kinematic	:	no data available
Solubility(ies) 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 Stable under recommended storage conditions. 10.2 Chemical stability Stable under normal conditions. 10.3 Possibility of hazardous reactions Hazardous reactions : Stable under normal conditions. 10.4 Conditions to avoid Conditions to avoid : no data available 10.5 Incompatible materials Materials to avoid : Strong oxidizing agents

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10.6 Hazardous decomposition products

	lo decomposition if stored normally.	(S	
SECT	ION 11: Toxicological information	tio	n
11.1 lr	nformation on hazard classes as c	defi	ned in Regulation (EC) No 1272/2008
	cute toxicity cute oral toxicity	:	Remarks: no data available
A	cute inhalation toxicity	:	Remarks: no data available
A	cute dermal toxicity	:	Remarks: no data available
S	kin corrosion/irritation		Remarks: no data available
S	erious eye damage/eye irritation		Remarks: no data available
R	espiratory or skin sensitisation		Remarks: no data available
	erm cell mutagenicity enotoxicity in vitro	:	Remarks: no data available
С	arcinogenicity		Remarks: no data available
	eproductive toxicity ffects on fertility	:	Remarks: no data available
S	TOT - single exposure		Remarks: no data available
S	TOT - repeated exposure		Remarks: no data available
A	spiration toxicity		Remarks: no data available
11.2 Ir	nformation on other hazards		
	ndocrine disrupting properties ssessment	:	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 is available on the product itself.
SECTION 12: Ecological information	n	
12.1 Toxicity		
Toxicity to fish	•	Remarks: no data available
12.2 Persistence and degradability		
Biodegradability	:	Result: no data available
12.3 Bioaccumulative potential		
Bioaccumulation	:	Remarks: no data available
12.4 Mobility in soil		
Distribution among environmental compartments	:	Remarks: no data available
12.5 Results of PBT and vPvB assessm	ent	t
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	:	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.
12.7 Other adverse effects Additional ecological information	:	no data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods				
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Product

: Dispose of in accordance with local regulations.

SECTION 14: Transport information

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14.1 14.2 14.3 14.4 14.5	UN number Proper shipping name Transport hazard class Packing group Environmental hazards	:	Not applicable Not applicable Not applicable Not applicable no
IMDG-			Not dangerous goods
14.1 14.2 14.3 14.4 14.5 ADR	UN number Proper shipping name Transport hazard class Packing group Environmental hazards		Not applicable Not applicable Not applicable Not applicable Marine pollutant: no Not dangerous goods
14.1 14.2 14.3 14.4 14.5 RID	UN number Proper shipping name Transport hazard class Packing group Environmental hazards		Not applicable Not applicable Not applicable Not applicable no
14.1 14.2 14.3 14.4 14.5 DOT	UN number Proper shipping name Transport hazard class Packing group Environmental hazards	:	Not applicable Not applicable Not applicable Not applicable no Not dangerous goods
14.1 14.2 14.3 14.4 14.5	UN number Proper shipping name Transport hazard class Packing group Environmental hazards	:	Not applicable Not applicable Not applicable Not applicable no
TDG 14.1 14.2 14.3 14.4 14.5	UN number Proper shipping name Transport hazard class Packing group Environmental hazards	:	Not dangerous goods Not applicable Not applicable Not applicable Not applicable no

14.6 Special precautions for user

Not dangerous goods



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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, preparations 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
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	Not applicable

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

National regulatory information

Water hazard class (Germany)

: WGK 1 slightly hazardous to water Remarks: Classification according to AwSV, Annex 1 (5.2)

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

Date format

: dd.mm.yyyy

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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