

## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

# **CRYO LEUKOPAK, 5.0B CELLS**

Version 2.0 Revision Date 11.12.2021 Print Date 20.07.2022

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : CRYO LEUKOPAK, 5.0B CELLS

Material number : 260260.01

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Scientific research and development

1.3 Details of the supplier of the safety data 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 : 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.

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.

## 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 : No hazardous combustion products are known



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 measures**

6.1 Personal precautions, protective equipment 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 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.

# **SECTION 7: Handling and storage**

7.1 Precautions for safe handling

Advice on safe handling : No special precautions required.

explosion

Advice on protection against fire and : Take precautionary measures against static discharges.

Handle in accordance with good industrial hygiene and safety Hygiene measures

practice.

7.2 Conditions for safe storage, including any incompatibilities

containers

Requirements for storage areas and : No special storage conditions required.

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	Control parameters	Basis
		of exposure)		
Dimethyl sulfoxide	67-68-5	STEL	100 ppm	SMAK
•			320 mg/m3	
		TWA	50 ppm	SMAK
			160 mg/m3	

# Germany

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



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 : Nitrile rubber Rate of permeability : > 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 : clear

Odour : odourless

Melting point/freezing point : no data available

Initial boiling point and 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

pH : no data available

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



# 10.6 Hazardous decomposition products

No decomposition if stored normally.

## **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

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

Reproductive toxicity

Effects on fertility : Remarks: no data available

STOT - single exposure

Remarks: no data available

STOT - repeated exposure

Remarks: no data available

**Aspiration toxicity** 

Remarks: no data available

## 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 is available on the product itself.

# **SECTION 12: Ecological information**

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 assessment

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

Product : Dispose of contents/container in accordance with local

regulation.

Contact waste disposal services.



# **SECTION 14: Transport information**

IATA			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
IMDG-0	CODE		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 Marine pollutant: no
ADR		:	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
RID		:	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
DOT		:	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		:	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

# 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 : Not applicable

market and use of certain dangerous substances, preparations

and articles (Annex XVII)

REACH - Candidate List of Substances of Very High Concern : Not applicable

for Authorisation (Article 59).

REACH - List of substances subject to authorisation (Annex Not applicable

XIV)

Regulation (EC) No 1005/2009 on substances that deplete the 

Not applicable

ozone layer

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

## National regulatory information

Water hazard class (Germany) : WGK 1 slightly hazardous to water

Remarks: Classification according to AwSV, Annex 1 (4)

# 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.

99 / EN