

## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## **IMDM WITH HEPES AND L-GLN**

Version 4.0	Revision Date 26.04.2024	Print Date 02.01.2025
SECTION 1: Identification of the sul	ostance/mixture and of the com	npany/undertaking
1.1 Product identifier		
Product name	: IMDM WITH HEPES AND L-GL	-N
Material number	: 12-722F	
1.2 Relevant identified uses of the subs	stance or mixture and uses advise	d against
Use of the Substance/Mixture	: For research use only.	
Recommended restrictions on use	: NOT FOR USE IN GMP MANU OR ANIMAL IN VIVO OR DIAG	
1.3 Details of the supplier of the safety	data sheet	
Company	: Lonza Ltd Muenchensteinerstrasse 38 CH-4002 Basel, Switzerland Business Telephone: +41 61 31	16 81 11
	<b>Lonza Verviers Sprl</b> Parc Industriel de Petit-Rechain BE-4800 Verviers, Belgium Business Telephone: +32 8732	
	<b>Lonza Cologne GmbH</b> Nattermannallee 1 DE-50829 Köln, Germany Business Telephone: + 49 221 9	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.

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**

<b>5.1 Extinguishing media</b> Suitable extinguishing media	:	Water spray Dry powder Foam
5.2 Special hazards arising from the s Hazardous combustion products	ubst :	ance or mixture No hazardous combustion products are known
5.3 Advice for firefighters Special protective equipment for	:	In the event of fire, wear self-contained breathing apparatus.

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firefighters		
Further information	:	Use water spray to cool unopened containers.
SECTION 6: Accidental release mea	su	res
6.1 Personal precautions, protective eq	uip	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 containme	ent	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.
Advice on protection against fire and explosion	:	Take precautionary measures against static discharges.
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice.
7.2 Conditions for safe storage, includi	ng	any incompatibilities
Requirements for storage areas and containers	:	No special storage conditions required.
7.3 Specific end use(s)		
Specific use(s)	:	No information available.
SECTION 8: Exposure controls/pers	on	al protection
8.1 Control parameters		
Occupational Exposure Limits		

Contains no substances with occupational exposure limit values.

## 8.2 Exposure controls

## **Engineering measures**

Avoid splashes.

<b>Personal protective equipment</b> Eye protection	: Tightly fitting safety goggles
Hand protection Material Rate of permeability	<ul> <li>Nitrile rubber</li> <li>&gt; 480 min</li> </ul>
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	:	light red		
Odour	:	No data available		
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		
		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) Water solubility	:	No data available		
Partition coefficient: n-octanol/water		No data available		

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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 reactivi	ity	
10.1 Reactivity		
Stable under recommended storage	e con	altions.
10.2 Chemical stability Stable under normal conditions.		
10.3 Possibility of hazardous reaction	16	
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 produ	ucts	
No decomposition if stored normally		
SECTION 11: Toxicological inform	natio	n
11.1 Information on hazard classes as	s defi	ned in Regulation (EC) No 1272/2008
Acute toxicity		
Acute toxicity	:	Remarks: No data available
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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
<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		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	n	
12.1 Toxicity		
Toxicity to fish	:	Remarks: No data available
<b>12.2 Persistence and degradability</b> Biodegradability	:	Result: no data available
<b>12.3 Bioaccumulative potential</b> Bioaccumulation	:	Remarks: No data available
<b>12.4 Mobility in soil</b> Distribution among environmental compartments	:	Remarks: No data available

## 12.5 Results of PBT and vPvB assessment



As	ssessment	: 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.
	ndocrine disrupting properties ndocrine 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.
	ther adverse effects dditional ecological information	: No data available
SECTI	ION 13: Disposal consideration	ins
	aste treatment methods	: Dispose of in accordance with local regulations.
SECTI	ION 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>Not applicable</li> <li>Marine pollutant: no</li> </ul>
ADR		: 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>

RID		: 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>
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 - 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 (EU) 2019/1021 on persistent organic pollutants (recast)	:	Not applicable
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	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

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

## 15.2 Chemical safety assessment

not required

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## **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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