

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

X-Vivo 15 contains Recombinant Transferrin

Version 1.0	Revision Date 28.09.2022	Print Date 14.03.2024		
SECTION 1: Identification of the substance/mixture and of the company/undertaking				
1.1 Product identifier				
Product name	X-Vivo 15 contains Recombinant Tran	sferrin		
Material number	: 02-053Q			
1.2 Relevant identified uses of the substance or mixture and uses advised against				
Use of the Substance/Mixture	For Research Use Only. Not for use in	diagnostic procedures.		
1.3 Details of the supplier of the safety d	ita sheet			
Company	: Lonza Ltd Muenchensteinerstrasse 38 CH-4002 Basel, Switzerland Business Telephone: +41 61 316 81 1	1		
	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 99 199	0		
E-mail address / Responsible/issuing person	sds@lonza.com			
1.4 Emergency telephone number				
Emergency telephone number	: Lonza Ltd, CH-4002 Basel, Switzerlan Telephone: +41 61 313 94 94 (24h)	d		

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	: 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
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5.3 Advice for firefighters

Special protective equipment for	: In the event of fire, wear self-contained breathing apparatus.
firefighters	



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Further information	: Use water spray to cool unopened containers.
SECTION 6: Accidental release	neasures
6.1 Personal precautions, protectiv	e 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 contai	nment 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 secti	on 8.
SECTION 7: Handling and stora	
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SECTION 7: Handling and stora 7.1 Precautions for safe handling	je : No special precautions required.
SECTION 7: Handling and stora 7.1 Precautions for safe handling Advice on safe handling Advice on protection against fire	je : No special precautions required.
SECTION 7: Handling and storag 7.1 Precautions for safe handling Advice on safe handling Advice on protection against fire explosion Hygiene measures	 je No special precautions required. and : Take precautionary measures against static discharges. Handle in accordance with good industrial hygiene and safe practice.
SECTION 7: Handling and storag 7.1 Precautions for safe handling Advice on safe handling Advice on protection against fire explosion Hygiene measures 7.2 Conditions for safe storage, inc	 je No special precautions required. and : Take precautionary measures against static discharges. Handle in accordance with good industrial hygiene and safe practice.
 SECTION 7: Handling and storage 7.1 Precautions for safe handling Advice on safe handling Advice on protection against fire explosion Hygiene measures 7.2 Conditions for safe storage, inc Requirements for storage areas 	 je No special precautions required. and : Take precautionary measures against static discharges. Handle in accordance with good industrial hygiene and safe practice. uding any incompatibilities

8.1 Control parameters

Occupational Exposure Limits

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures

Avoid splashes.

Personal protective equipment

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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

:	liquid
:	Aqueous solution
:	No data available

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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 read	tivity
10.1 Reactivity Stable under recommended sto	rage conditions.
10.2 Chemical stability Stable under normal conditions.	
10.3 Possibility of hazardous reac	tions
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 pr No decomposition if stored norm	
	nally.
No decomposition if stored norm	nally.
No decomposition if stored norm	nally. ormation
No decomposition if stored norm SECTION 11: Toxicological info 11.1 Information on hazard classe	nally. ormation
No decomposition if stored norm SECTION 11: Toxicological info 11.1 Information on hazard classe Acute toxicity	nally. ormation s as defined in Regulation (EC) No 1272/2008
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No decomposition if stored norm SECTION 11: Toxicological info 11.1 Information on hazard classe Acute toxicity Acute oral toxicity Acute inhalation toxicity Acute dermal toxicity Skin corrosion/irritation Serious eye damage/eye irritation	Imally. ormation s as defined in Regulation (EC) No 1272/2008 : Remarks: No data available : Remarks: No data available
No decomposition if stored norm SECTION 11: Toxicological info 11.1 Information on hazard classe Acute toxicity Acute oral toxicity Acute inhalation toxicity Acute dermal toxicity Skin corrosion/irritation Serious eye damage/eye irritation	mally. ormation s as defined in Regulation (EC) No 1272/2008 : : Remarks: No data available : : Remarks: No data available : Remarks: No data available Remarks: No data available Remarks: No data available Remarks: No data available tion Remarks: No data available

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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 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.

	docrine disrupting properties docrine 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.	
	ner adverse effects ditional ecological information	: No data available	
SECTIO	ON 13: Disposal consideration	ns	
	este treatment methods educt		
SECTIO	ON 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	 Not applicable Not applicable Not applicable Not applicable no 	
IMDG-0 14.1 14.2 14.3 14.4 14.5	UN number Proper shipping name Transport hazard class(es) Packing group Environmental hazards	Not dangerous goods Not applicable 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(es) 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(es) Packing group Environmental hazards	 Not applicable Not applicable Not applicable Not applicable no 	

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DOT		: 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	 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(es) 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 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		
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				

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)

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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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