

Kit SDS Cover Sheet DPSCGM™

Version 4.1

Revision Date 28.05.2024

Print Date 02.01.2025

Product Information

Commercial
Product Name: Poietics®Product name: DPSCGM™Material number: PT-4516

Components

SDS attached
SDS attached
SDS attached
SDS attached



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SECTION 1: Identification of the su	bstance/mixture and of the company	/undertaking
1.1 Product identifier		
Commercial Product Name	: Poietics®	
Product name	: DPSCGM™	
1.2 Relevant identified uses of the sub	stance or mixture and uses advised aga	inst
Use of the Substance/Mixture	: For research use only.	
Recommended restrictions on use	: NOT FOR USE IN GMP MANUFACT OR ANIMAL IN VIVO OR DIAGNOST	
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 1	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 99 199	90
E-mail address / Responsible/issuing person	: sds@lonza.com	
1.4 Emergency telephone number		
Emergency telephone number	: Lonza Ltd, CH-4002 Basel, Switzerlar Telephone: +41 61 313 94 94 (24h)	nd

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Respiratory sensitisation, Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)



according to Regulation (EC) No. 1907/2006

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Hazard pictograms		
Signal word	: Danger	
Hazard statements	: H317 May cause an allergic skin H334 May cause allergy or asthm difficulties if inhaled.	
Precautionary statements	 Prevention: P261 Avoid breathing dust/ fume P280 Wear protective gloves. P284 Wear respiratory protection 	
	Response: P304 + P340 IF INHALED: Remo keep comfortable for breathing. P333 + P313 If skin irritation or ra advice/ attention. P342 + P311 If experiencing resp POISON CENTER/ doctor.	

Hazardous components which must be listed on the label:

Gentamicin, sulfate (salt)

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

Chemical name	CAS-No. EC-No. Index-No. REACH Registration Number	Classification	Concentration (% w/w)
Gentamicin, sulfate (salt)	1405-41-0	Resp. Sens. 1; H334	>= 3 - < 5
	215-778-9	Skin Sens. 1; H317	

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For explanation of abbreviations see section 16.

SECTION 4: First aid measures		
4.1 Description of first aid measures		
General advice	:	When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	Move to fresh air. Call a physician or poison control centre immediately. If unconscious, place in recovery position and seek medical advice. Keep respiratory tract clear. If breathing is irregular or stopped, administer artificial respiration.
In case of skin contact	:	After contact with skin, wash immediately with plenty of soap and water. Wash clothing before reuse. Get medical attention if irritation develops and persists.
		After contact with skin, wash immediately with plenty of soap and water. If on clothes, remove clothes. In the case of skin irritation or allergic reactions see a physician.
In case of eye contact	:	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If eye irritation persists, consult a specialist.
		Immediately flush eye(s) with plenty of water. 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 effe	ects,	both acute and delayed
Symptoms	:	Allergic appearance sensitising effects
		No information available.
4.3 Indication of any immediate medic	al at	tention and special treatment needed
Treatment	:	Treat symptomatically.



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Treat symptomatically.			
SECTION 5: Firefighting measures			
5.1 Extinguishing media			
Suitable extinguishing media	:	Not combustible. Use extinguishing measures that are appro circumstances and the surrounding enviror	
		Water spray	
Unsuitable extinguishing media	:	High volume water jet	
5.2 Special hazards arising from the su	ıbs	tance or mixture	
Specific hazards during firefighting	:	Heating or fire can release toxic gas.	
Hazardous combustion products	:	No hazardous combustion products are know	own
5.3 Advice for firefighters			
Special protective equipment for firefighters	:	In the event of fire, wear self-contained bre Use personal protective equipment.	athing apparatus.
Further information	:	Use a water spray to cool fully closed conta	ainers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions :	Use respirator when performing operations involving potential exposure to vapour of the product. Refer to protective measures listed in sections 7 and 8. Use personal protective equipment. Ensure adequate ventilation. Use respirator when performing operations involving potential exposure to vapour of the product.
6.2 Environmental precautions	
Environmental precautions :	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.
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.



according to Regulation (EC) No. 1907/2006

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For disposal considerations see section 13.

SECTION 7: Handling and storage 7.1 Precautions for safe handling Advice on safe handling Avoid formation of aerosol. 1 Avoid exposure - obtain special instructions before use. Do not breathe vapours/dust. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations. Advice on protection against fire and : Stable under normal conditions. explosion Normal measures for preventive fire protection. Hygiene measures Wash hands before breaks and at the end of workday. Avoid 2 contact with skin, eyes and clothing. 7.2 Conditions for safe storage, including any incompatibilities Requirements for storage areas and : Keep frozen or refrigerated. containers Observe label precautions. Keep container tightly closed. Keep in a well-ventilated place. To maintain product quality, do not store in heat or direct sunlight. Further information on storage No decomposition if stored and applied as directed. 5 stability 7.3 Specific end use(s) Specific use(s) No information available. 5

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures			
Use only in area provided with appropriate exhaust ventilation.			
Personal protective equipment			
Eye protection	:	Safety glasses	
Hand protection			
Material	:	Nitrile rubber	
Remarks	:	Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Impervious gloves Break through time : > 480 min The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.	
Skin and body protection	:	Choose body protection according to the amount and concentration of the dangerous substance at the work place. Impervious clothing	
Respiratory protection	:	In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.	
		Respirator with ABEK filter. Respirator with combination filter for vapour/particulate (EN 141)	
		Respirator with a vapour filter (EN 141)	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: liquid
Appearance	: Aqueous solution
Colour	: light yellow
Odour	: odourless



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Melting point/freezing point	:	0°C	
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	:	Does not sustain combustion.	
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	:	soluble	
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.

10.2 Chemical stability

Stable under recommended storage conditions.



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10.3 Possibility of hazardous reaction	ons		
Hazardous reactions	:	Stable under recommended storage 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 proc No decomposition if used as direc			
SECTION 11: Toxicological infor	matio	n	
11.1 Information on hazard classes	as def	ined in Regulation (EC) No 1272/200	8
Acute toxicity			
Acute oral toxicity	:	Acute toxicity estimate: Remarks: No	o 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 irritati	on		
		Remarks: No data available	
Respiratory or skin sensitisatio	on		
		Remarks: No data available	
Germ cell mutagenicity			
Genotoxicity in vitro	:	Remarks: No data available	
Genotoxicity in vivo	:	Remarks: No data available	
Carcinogenicity			
		Remarks: No data available	

Reproductive toxicity Effects on fertility

: Remarks: No data available



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STOT - single exposure		
	Remarks: No data available	
STOT - repeated exposure		
	Remarks: No data available	
Repeated dose toxicity		
	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 co considered to have endocrine disru to REACH Article 57(f) or Commiss (EU) 2017/2100 or Commission Re levels of 0.1% or higher. 	pting properties according sion Delegated regulation
Neurological effects		
	Remarks: No data available	
Further information		
	Remarks: No data available	
SECTION 12: Ecological informatio	n	
12.1 Toxicity		
Toxicity to fish	: Remarks: No data available	
12.2 Persistence and degradability		
Biodegradability	: Remarks: 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 assess	nent	
Assessment	: This substance/mixture contains no be either persistent, bioaccumulative persistent and very bioaccumulative	ve and toxic (PBT), or very
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	higher.	
12.6 Endocrine disrupting properties		
Endocrine disrupting potential	: The substance/mixture does not contain co considered to have endocrine disrupting pro to REACH Article 57(f) or Commission Dele (EU) 2017/2100 or Commission Regulation levels of 0.1% or higher.	operties according
12.7 Other adverse effects		
Endocrine disrupting potential	 The substance/mixture does not contain co considered to have endocrine disrupting pro to REACH Article 57(f) or Commission Dele (EU) 2017/2100 or Commission Regulation levels of 0.1% or higher. 	operties according
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. Do not dispose of waste into sewer.
Contaminated packaging	Dispose of as unused product. Do not re-use empty containers.

Not dangerous goods

SECTION 14: Transport information

IATA

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		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 Not applicable Marine pollutant: no

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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	 Not applicable Not applicable Not applicable Not applicable no Not dangerous goods 	
14.1 14.2 14.3 14.4 14.5 DOT	UN number Proper shipping name Transport hazard class(es) Packing group Environmental hazards	 Not applicable Not applicable Not applicable Not applicable no Not dangerous goods 	
14.1 14.2 14.3 14.4 TDG	UN number Proper shipping name Transport hazard class(es) Packing group	 Not applicable Not applicable Not applicable Not applicable Not applicable 	
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 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 - Candidate List of Substances of Very High Concern : Not applicable for Authorisation (Article 59).

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



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>	KIV)				
	Regulation (EU) 2019/10 recast)	21 on persistent	organic pollutants : Not applicable		
r	REACH - Restrictions or narket and use of certair articles (Annex XVII)				
	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				
٧	Water hazard class (Germany) : WGK 1 slightly hazardous to water				
	Chemical safety asses not required	sment			
SEC	TION 16: Other inform	nation			
C	Classification of the mi	xture:	Classification procedure:		
F	Resp. Sens. 1	H334	Calculation method		
S	Skin Sens. 1	H317	Calculation method		
F	Full text of H-Statemen	ts			
	H317 H334	:	May cause an allergic skin reaction. May cause allergy or asthma symptoms or b if inhaled.	reathing difficulties	
F	Full text of other abbre	viations			
	Resp. Sens. Skin Sens.	:	Respiratory sensitisation Skin sensitisation		

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



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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

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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Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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.



Fetal Bovine Serum

Version 4.1	Revision Date 28.05.2024	Print Date 02.01.2025	
SECTION 1: Identification of the substance/mixture and of the company/undertaking			
1.1 Product identifier			
Commercial Product Name	: Poietics®		
Product name	: DPSCGM™		
1.2 Relevant identified uses of the subst	ance 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 I		
1.3 Details of the supplier of the safety d	ata 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		
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

The beson phone of mot and 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, both acute and delayed			
Symptoms	:	No information available.	

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.



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Fetal Bovine Serum

Version 4.1	Revision Date 28.05.2024	Print Date 02.01.2025		
SECTION 5: Firefighting measures				
5.1 Extinguishing media				
Suitable extinguishing media	: Water spray			
Unsuitable extinguishing media	: High volume water jet			
5.2 Special hazards arising from the substance or mixture				
Specific hazards during firefighting	: Heating or fire can release toxic gas.			
Hazardous combustion products	: No hazardous combustion products a	re known		
5.3 Advice for firefighters				
Special protective equipment for firefighters	: In the event of fire, wear self-containe Use personal protective equipment.	ed breathing apparatus.		
Further information	: Use a water spray to cool fully closed	containers.		
SECTION 6: Accidental release mea	asures			

6.1 Personal precautions, protective equipment and emergency procedures				
Personal precautions	: Use personal protective equipment.			
6.2 Environmental precautions 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	:	No special precautions required.



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		Normal measures for preventive fire protection	ction.
Hygiene measures	:	Handle in accordance with good industrial practice.	hygiene and safety
7.2 Conditions for safe storage, includi	ing	any incompatibilities	
Requirements for storage areas and containers	:	Keep container tightly closed. Keep in a w To maintain product quality, do not store ir sunlight.	•
Advice on common storage	:	No special restrictions on storage with oth	er products.
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

Occupational Exposure Limits

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures

Use only in area provided with appropriate exhaust ventilation.

Personal protective equipment Eye protection		Safety glasses
	•	Callety 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



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Fetal Bovine Serum

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Physical state	:	liquid	
Appearance	:	Aqueous solution	
Colour	:	brown	
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	
pН	:	6,8 - 8,3	
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

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SECTION 10: Stability and react	tivity	
10.1 Reactivity		
No decomposition if stored and a	applied as directed.	
10.2 Chemical stability		
Stable under recommended stor	age conditions.	
10.3 Possibility of hazardous react	ions	
Hazardous reactions	: Stable under recommended storage No hazards to be specially mention	
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 pro	oducts	

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	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
Ref. 00000016003	SDK_EU / EN



according to Regulation (EC) No. 1907/2006

Fetal Bovine Serum

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Reproductive toxicity		
Effects on fertility	: Remarks: No data available	
STOT - single exposure	Remarks: No data available	
	Remarks. No dala 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 co considered to have endocrine disru to REACH Article 57(f) or Commiss (EU) 2017/2100 or Commission Re levels of 0.1% or higher.	pting properties according ion Delegated regulation
Further information		
	Remarks: No data available	
SECTION 12: Ecological information	n	
12.1 Toxicity		
Toxicity to fish	: Remarks: No data available	
12.2 Persistence and degradability		
Biodegradability	: Remarks: 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	nent	
Assessment	: This substance/mixture contains no be either persistent, bioaccumulativ persistent and very bioaccumulative higher.	e and toxic (PBT), or very



Fetal Bovine Serum

Version 4.1	Revision Date 28.05.2024	Print Date 02.01.2025
12.6 Endocrine disrupting properties		
Endocrine disrupting potential	 The substance/mixture does not contain considered to have endocrine disrupting to REACH Article 57(f) or Commission I (EU) 2017/2100 or Commission Regular levels of 0.1% or higher. 	properties according Delegated regulation
12.7 Other adverse effects		
Endocrine disrupting potential	 The substance/mixture does not contain considered to have endocrine disrupting to REACH Article 57(f) or Commission I (EU) 2017/2100 or Commission Regular levels of 0.1% or higher. 	properties according Delegated regulation
Additional ecological information	: No data available	

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	:	Dispose of in accordance with local regulations.
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	 Not applicable Not applicable Not applicable Not applicable no
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	 Not applicable Not applicable Not applicable Not applicable Not applicable Marine pollutant: no

Fetal Bovine Serum

Version 4.1		Revision Date 28.05.2024	Print Date 02.01.2025
ADR		: Not dangerous goods	
14.1	UN number	: Not applicable	
14.2	Proper shipping name	: Not applicable	
14.3	Transport hazard class(es)		
14.4	Packing group	: Not applicable	
14.5	Environmental hazards	: no	
RID		: Not dangerous goods	
14.1	UN number	: Not applicable	
14.2	Proper shipping name	: Not applicable	
14.3	Transport hazard class(es)		
14.4	Packing group	: Not applicable	
14.5	Environmental hazards	: no	
DOT		: Not dangerous goods	
14.1	UN number	: Not applicable	
14.2	Proper shipping name	: Not applicable	
14.3	Transport hazard class(es)	: Not applicable	
14.4	Packing group	: Not applicable	
TDG		: Not dangerous goods	
14.1	UN number	: Not applicable	
14.2	Proper shipping name	: Not applicable	
14.3	Transport hazard class(es)	: Not applicable	
14.4	Packing group	: Not applicable	
14.5	Environmental hazards	: 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 - Candidate List of Substances of Very High Concern : Not applicable for Authorisation (Article 59).

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



Fetal Bovine Serum

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XIV)		
Regulation (EU) 2019/1021 on persist (recast)	ent organic pollutants : Not applicable	
REACH - Restrictions on the manufac market and use of certain dangerous s articles (Annex XVII)		
Seveso III: Directive 2012/18/EU of the major-accident hazards involving dang	e European Parliament and of the Council on th gerous substances. Not applicable	ne control of
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 -



Fetal Bovine Serum

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Dutch Threshold Limit V	/alue; TGV – Swedish OEL; TLV Threshold Limit Value;	TLV-C - Threshold Limit

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

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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Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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L-GLUTAMINE

Version 4.1	Revision Date 28.05.2024	Print Date 02.01.2025
SECTION 1: Identification of the subs	tance/mixture and of the company/und	ertaking
1.1 Product identifier		
Commercial Product Name :	Poietics®	
Product name :	DPSCGM™	
1.2 Relevant identified uses of the substa	nce or mixture and uses advised against	
Use of the Substance/Mixture :	For research use only.	
Recommended restrictions on use :	NOT FOR USE IN GMP MANUFACTURING OR ANIMAL IN VIVO OR DIAGNOSTIC US	
1.3 Details of the supplier of the safety da	ita 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	
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	: 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

2

Treatment

: No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray Dry powder Foam



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5.2 Special hazards arising from	m the substance or mixture	
Hazardous combustion prod	ucts : Nitrogen oxides (NOx) Carbon oxides (COx)	
5.3 Advice for firefighters		
Special protective equipmer firefighters	t for : In the event of fire, wear sel	f-contained breathing apparatus.
Further information	: Use water spray to cool unc	opened containers.
SECTION 6: Accidental relea	ase measures	
6.1 Personal precautions, prote	ective equipment and emergency proce	edures
Personal precautions	: Use personal protective equ	uipment.
6.9 Environmental processions		
6.2 Environmental precautions Environmental precautions	: Prevent product from entering	ng drains
	. Trevent product nom enten	
6.3 Methods and material for c	ontainment and cleaning up	
Methods for cleaning up	: Contain spillage, and then c	collect with non-combustible
	absorbent material, (e.g. sa vermiculite) and place in co local / national regulations (nd, earth, diatomaceous earth, ntainer for disposal according to
6.4 Reference to other sections For personal protection see	absorbent material, (e.g. sa vermiculite) and place in co local / national regulations (section 8.	nd, earth, diatomaceous earth, ntainer for disposal according to
6.4 Reference to other sections For personal protection see SECTION 7: Handling and se	absorbent material, (e.g. sa vermiculite) and place in co local / national regulations (s section 8.	nd, earth, diatomaceous earth, ntainer for disposal according to
6.4 Reference to other sections	absorbent material, (e.g. sa vermiculite) and place in co local / national regulations (s section 8.	nd, earth, diatomaceous earth, ntainer for disposal according to see section 13).
6.4 Reference to other sections For personal protection see SECTION 7: Handling and st 7.1 Precautions for safe handli	absorbent material, (e.g. sa vermiculite) and place in co local / national regulations (s section 8. torage ng : No special precautions requ	nd, earth, diatomaceous earth, ntainer for disposal according to see section 13).
 6.4 Reference to other sections For personal protection see SECTION 7: Handling and st 7.1 Precautions for safe handling Advice on safe handling 	absorbent material, (e.g. sa vermiculite) and place in co local / national regulations (s section 8. torage : No special precautions requ t fire and : Take precautionary measur	nd, earth, diatomaceous earth, ntainer for disposal according to see section 13).
 6.4 Reference to other sections For personal protection see SECTION 7: Handling and set 7.1 Precautions for safe handling Advice on safe handling Advice on protection against explosion Hygiene measures 	absorbent material, (e.g. sa vermiculite) and place in con local / national regulations (s section 8. torage : No special precautions requ t fire and : Take precautionary measur : Handle in accordance with g	nd, earth, diatomaceous earth, ntainer for disposal according to see section 13). uired. es against static discharges.
 6.4 Reference to other sections For personal protection see SECTION 7: Handling and set 7.1 Precautions for safe handling Advice on safe handling Advice on protection against explosion Hygiene measures 7.2 Conditions for safe storage 	absorbent material, (e.g. sa vermiculite) and place in col- local / national regulations (s section 8. torage : No special precautions requ t fire and : Take precautionary measur : Handle in accordance with g practice.	nd, earth, diatomaceous earth, ntainer for disposal according to see section 13). uired. es against static discharges. good industrial hygiene and safety
 6.4 Reference to other sections For personal protection see SECTION 7: Handling and set 7.1 Precautions for safe handling Advice on safe handling Advice on protection against explosion Hygiene measures 7.2 Conditions for safe storage Requirements for storage ar 	absorbent material, (e.g. sa vermiculite) and place in con local / national regulations (s section 8. torage it orage : No special precautions requ t fire and : Take precautionary measur : Handle in accordance with o practice.	nd, earth, diatomaceous earth, ntainer for disposal according to see section 13). uired. es against static discharges. good industrial hygiene and safety

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SECTION 8: Exposure controls/personal protection

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 Eye protection	: Safety glasses	
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	:	No data available
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



according to Regulation (EC) No. 1907/2006

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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	
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.



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SECTION 11: Toxicological infor	mation	
11.1 Information on hazard classes	as defined in Regulation (EC) No 1272/200	8
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 irritati	on Remarks: No data available	
Respiratory or skin sensitisation	on 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	
11.2 Information on other hazards		
Endocrine disrupting propertie Assessment	 S The substance/mixture does not confict considered to have endocrine disrupt to REACH Article 57(f) or Commission (EU) 2017/2100 or Commission Regulevels of 0.1% or higher. 	ting properties according on Delegated regulation
Further information	Remarks: No data is available on the	product itself.
Ref. 00000028037	SDK EU/EN	Page 31 (47

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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 assess Assessment	 This substance/mixture contains no c be either persistent, bioaccumulative persistent and very bioaccumulative (higher. 	and toxic (PBT), or very		
12.6 Endocrine disrupting properties Endocrine disrupting potential	: The substance/mixture does not cont considered to have endocrine disrupt to REACH Article 57(f) or Commissio (EU) 2017/2100 or Commission Regu levels of 0.1% or higher.	ing properties according n Delegated regulation		
12.7 Other adverse effects Endocrine disrupting potential	 The substance/mixture does not cont considered to have endocrine disrupt to REACH Article 57(f) or Commissio (EU) 2017/2100 or Commission Regu levels of 0.1% or higher. 	ing properties according n Delegated regulation		
Additional ecological information	: No data available			

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.

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SECTION 14: Transport information

ΙΑΤΑ Not dangerous goods 14.1 **UN number** Not applicable Not applicable **Proper shipping name** 14.2 Transport hazard class(es) Not applicable 14.3 Not applicable 14.4 **Packing group** 14.5 **Environmental hazards** : no IMDG Not dangerous goods 14.1 **UN number** Not applicable 14.2 Proper shipping name Not applicable Transport hazard class(es) Not applicable 14.3 ٠ 14.4 Packing group 5 Not applicable 14.5 **Environmental hazards** Marine pollutant: no 5 ADR Not dangerous goods 14.1 **UN number** : Not applicable Proper shipping name Not applicable 14.2 Transport hazard class(es) Not applicable 14.3 Packing group Not applicable 14.4 : **Environmental hazards** 14.5 : no RID Not dangerous goods 14.1 **UN number** Not applicable 14.2 Proper shipping name Not applicable 14.3 Transport hazard class(es) : Not applicable 14.4 Packing group : Not applicable 14.5 **Environmental hazards** : no DOT : Not dangerous goods 14.1 **UN number** Not applicable • Not applicable 14.2 Proper shipping name • 14.3 Transport hazard class(es) Not applicable ÷ Not applicable 14.4 **Packing group** :

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Versior	1 4.1	Revision Date 28.05.2024	Print Date 02.01.2025
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 s REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	•	c for the substance or mixture Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	: N	lot applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	: N	lot applicable
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)		lot applicable
Seveso III: Directive 2012/18/EU of the European Parliament a major-accident hazards involving dangerous substances. Not applicable	ind of t	the Council on the control of
Water hazard class (Germany) : WGK 1 slightly hazar	rdous	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

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Version 4.1

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Print Date 02.01.2025

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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.



Ascorbic Acid Solution

Version 4.1	Revision Date 28.05.2024	Print Date 02.01.2025
SECTION 1: Identification of the subs	tance/mixture and of the company/un	dertaking
1.1 Product identifier		
Commercial Product Name	Poietics®	
Product name	DPSCGM™	
1.2 Relevant identified uses of the substa	nce 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 d	ita 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	
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	: 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

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Treatment

: No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray Dry powder Foam



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5.2 Special hazards arising from the sul	bstance or mixture	
Hazardous combustion products	: No hazardous combustion product	ts are known
5.3 Advice for firefighters		
Special protective equipment for firefighters	: In the event of fire, wear self-conta	ained breathing apparatus.
Further information	: Use water spray to cool unopened	l containers.
SECTION 6: Accidental release mea	sures	
6.1 Personal precautions, protective eq	uipment and emergency procedures	5
Personal precautions	: Use personal protective equipment	ıt.
6.2 Environmental precautions		
Environmental precautions	: Prevent product from entering dra	ins.
6.3 Methods and material for containme	ent and cleaning up	
Methods for cleaning up	: Contain spillage, and then collect absorbent material, (e.g. sand, ea vermiculite) and place in container local / national regulations (see se	rth, diatomaceous earth, r for disposal according to
6.4 Reference to other sections		
For personal protection see section 8		
SECTION 7: Handling and storage		
7.1 Precautions for safe handling		
-	: No special precautions required.	
Advice on protection against fire and explosion	: Take precautionary measures aga	inst static discharges.
Hygiene measures	: Handle in accordance with good ir practice.	ndustrial hygiene and safety
7.2 Conditions for safe storage, including	ng any incompatibilities	
- .	: No special storage conditions requ	uired.
7.3 Specific end use(s)		
Specific use(s)	: No information available.	

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SECTION 8: Exposure controls/personal protection

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	
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	:	No data available
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



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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	
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.



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SECTION 11: Toxicological infor	mation	
11.1 Information on hazard classes	as defined in Regulation (EC) No 1272/200	18
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 irritati	on Remarks: No data available	
Respiratory or skin sensitisatio	n 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	
11.2 Information on other hazards		
Endocrine disrupting propertie Assessment	 The substance/mixture does not con considered to have endocrine disrup to REACH Article 57(f) or Commission (EU) 2017/2100 or Commission Reg levels of 0.1% or higher. 	ting properties according on Delegated regulation
Further information	Remarks: No data is available on the	e product itself.
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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 c be either persistent, bioaccumulative persistent and very bioaccumulative (higher.	and toxic (PBT), or very			
12.6 Endocrine disrupting properties					
Endocrine disrupting potential	 The substance/mixture does not cont considered to have endocrine disrupt to REACH Article 57(f) or Commissio (EU) 2017/2100 or Commission Regu levels of 0.1% or higher. 	ing properties according n Delegated regulation			
12.7 Other adverse effects					
Endocrine disrupting potential	 The substance/mixture does not cont considered to have endocrine disrupt to REACH Article 57(f) or Commissio (EU) 2017/2100 or Commission Regu levels of 0.1% or higher. 	ing properties according n Delegated regulation			
Additional ecological information	: No data available				

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.



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SECTION 14: Transport information

ΙΑΤΑ Not dangerous goods 14.1 **UN number** Not applicable Not applicable **Proper shipping name** 14.2 Transport hazard class(es) Not applicable 14.3 Not applicable 14.4 **Packing group** 14.5 **Environmental hazards** : no IMDG Not dangerous goods 14.1 **UN number** Not applicable 14.2 Proper shipping name Not applicable Transport hazard class(es) Not applicable 14.3 ٠ 14.4 Packing group 5 Not applicable 14.5 **Environmental hazards** Marine pollutant: no 5 ADR Not dangerous goods 14.1 **UN number** : Not applicable Proper shipping name Not applicable 14.2 Transport hazard class(es) Not applicable 14.3 Packing group Not applicable 14.4 : **Environmental hazards** 14.5 : no RID Not dangerous goods 14.1 **UN number** Not applicable 14.2 Proper shipping name Not applicable 14.3 Transport hazard class(es) : Not applicable Packing group 14.4 : Not applicable 14.5 **Environmental hazards** : no DOT : Not dangerous goods 14.1 **UN number** Not applicable • Not applicable 14.2 Proper shipping name • 14.3 Transport hazard class(es) Not applicable ÷ Not applicable 14.4 **Packing group** :

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

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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Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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