

Safety Data Sheet oriented at regulation (EC) No. 1907/2006 (REACH) and US 1910.1200 App D - Safety Data Sheets Revision date: 07/07/2022 Version: ZY-MS-1003f

Date of issue: 13/07/2020

SECT	ION 1: Identification of the	substance/mixture and of the company/undertaking
1.1.	Product identifier	
Produ	ct form	: Mixture
Trade	name	: CellGenix [®] Interleukin-4 – recombinant human (rh IL-4)
Produ	ct code	: 1003 (GMP grade, USP grade); 1403 (preclinical grade)
.2.	Relevant identified uses of the	substance or mixture and uses advised against
1.2.1.	Relevant identified uses	
Use of	f the substance/mixture	: Cell Culture component. For further manufacturing use (product code 1003 GMP grade) or for preclinical ex vivo use (product code 1403, preclinical grade).
1.2.2.	Uses advised against	
Restrie	ctions on use	: Not intended for human in vivo application.
.3.	Details of the supplier of the s	afety data sheet
Am Fli 79108 T +49	ius CellGenix GmbH ughafen 16 Freiburg 761 888 89-0 761 888 89-830	E-mail address of competent person responsible for the SDS info@ubsplus.de
1.4.	Emergency telephone number	
Emerg	gency number	: +49 761 19240
		(Vergiftungs-Informations-Zentrale Freiburg, 24 h, German & English)
SECT	ION 2: Hazards identificati	
2.1.	Classification of the substance	on e or mixture
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This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II



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SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Move the affected person away from the contaminated area. Fresh air, rest. Prevent cooling by covering the victim (no warming up). If unconscious place in recovery position and seek medical advice. Do not give an unconscious person anything to drink. Remove soiled clothing promptly.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Artificial respiration if indicated If symptoms persist, call a physician.
First-aid measures after skin contact	: Immediately remove contaminated clothing or footwear. Rinse and then wash skin thoroughly with water and soap. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Wash with plenty of water (during 20 minutes minimum) with eyes wide open after taking off soft contact lenses and immediately take medical advice.
First-aid measures after ingestion	: Rinse mouth. Drink plenty of water. If you feel unwell, seek medical advice.
4.2. Most important symptoms and effect No additional information available	s, both acute and delayed
4.3. Indication of any immediate medical	attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: water, carbon dioxide (CO2), powder and foam. Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: Not known.
5.2. Special hazards arising from the sub	
Fire hazard	: Combustible solids. : Not known.
Explosion hazard Hazardous decomposition products in case of	: Nitrogen oxides. Carbon monoxide. Carbon dioxide.
fire	
5.3. Advice for firefighters	
Firefighting instructions	: Do not allow run-off from fire fighting to enter drains or water courses.
Protection during firefighting	: Evacuate the danger area. Keep public away from danger area. Extra personal protection: complete protective clothing including self-contained breathing apparatus.
SECTION 6: Accidental release meas	ures
6.1. Personal precautions, protective equ	ipment and emergency procedures
General measures	: Do not breathe Dust. Avoid contact with skin and eyes. Ventilate spillage area. In case of insufficient ventilation, wear suitable respiratory equipment.
6.1.1. For non-emergency personnel	
Protective equipment	: Avoid exposure. Wear personal protective equipment.
Measures in case of dust release	: Do not breathe dust.
6.1.2. For emergency responders	
Protective equipment	: Avoid exposure. Wear personal protective equipment.
6.2. Environmental precautions	
Prevent entry to sewers and public waters.	
6.3. Methods and material for containmer	
For containment	: Dike and contain spill. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.
Methods for cleaning up	: Clean with water.
6.4. Reference to other sections No additional information available	
SECTION 7: Handling and storage 7.1. Precautions for safe handling	
Additional hazards when processed	: Avoid dust formation. Do not breathe dust.
Precautions for safe handling	: Avoid contact with skin, eyes and clothing. If syringes are used to handle the product, be
5	careful to avoid injuries with injection needles.



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Hygiene measures	Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.
7.2. Conditions for sa	fe storage, including any incompatibilities
Storage conditions	: Keep container tightly closed.
Storage temperature	: -8020 °C (Shipping at ambient temperature.)

7.3. Specific end use(s)

Cell Culture component. For further manufacturing use (product code 1003, GMP grade, USP grade) or for preclinical ex vivo use (product code 1403, preclinical grade). Not intended for human in vivo application.

SECTION 8: Exposure controls/personal protection

Control parameters 8.1.

No additional information available

8.2. **Exposure controls**

Appropriate engineering controls

Materials for protective clothing

Hand protection

Eye protection

Respiratory protection



Other information

- : Ensure good ventilation of the work station.
- : Wear proper protective equipment
- Chemically resistant protective gloves. Choosing the proper glove is a decision that depends ÷ not only on the type of material, but also on other quality features, which differ for each manufacturer. . Material : Latex (0,1 mm). Nitrile rubber (0,1 mm)
- : Sealed safety goggles. (EN 166).
- : No respiratory protection needed under normal use conditions
- Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and	chemical properties		
Physical state	: Solid		
Appearance	: Powder		
Colour	: white		
Odour	: odourless		
Odour threshold	: Not applicable		
рН	: Not determined		
pH solution	: Not determined		
Relative evaporation rate (butylacetate=1)	: Not applicable		
Melting point	: Not determined		
Freezing point	: Not determined		
Boiling point	: Not applicable		
Flash point	: Not applicable		
Auto-ignition temperature	: Not determined		
Decomposition temperature	: Not determined		
Flammability (solid, gas)	: Not determined		
Vapour pressure	: Not determined		
Relative vapour density at 20 °C	: Not determined		
Relative density	: Not determined		
Solubility	: Water: Soluble		
Log Pow	: Not determined		
Log Kow	: Not determined		
Viscosity, kinematic	: Not applicable		
Viscosity, dynamic	: Not applicable		



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Explosive properties	: Not known.
Oxidising properties	: Not known.
Explosive limits	: No data available
9.2. Other information	
Other properties	: Molecular weight :15.1 kDa
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No dangerous reactions known under normal cond	itions of use.
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reactions	
No dangerous reactions known.	
10.4. Conditions to avoid No additional information available	
10.5. Incompatible materials Strong oxidizers. Incompatible materials	
10.6. Hazardous decomposition products	
No additional information available	
SECTION 11: Toxicological information	n
11.1. Information on toxicological effects Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: Not determined
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: Not determined
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met) : Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
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SECTION 12: Ecological information	
12.1. Toxicity	Early defined any blance are not because an expected on the second case.
Ecology - general Acute aquatic toxicity	 Ecological problems are not known or expected under normal use. Not classified
Chronic aquatic toxicity	: Not classified
12.2. Persistence and degradability	
Recombinant Human Interleukin-4 (rh IL-4)	
Persistence and degradability	Bioaccumulation unlikely.
12.3. Bioaccumulative potential	
Recombinant Human Interleukin-4 (rh IL-4)	
Log Pow	Not determined

No additional information available

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Results of PBT and vPvB assessment 12.5.

Recombinant Human Interleukin-4

(rh IL-4)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)

Sewage disposal recommendations

- : This material and its container must be disposed of in a safe way, and as per local legislation. Do not allow to enter drains or water courses. :
- Additional information
- Empty the packaging completely prior to disposal. Handle uncleaned empty containers as full ones.

SECTION 14: Transport information

In accordance with ADR /	RID / IMDG / IATA / ADN			
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper sh	14.2. UN proper shipping name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport has	zard class(es)			ł
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing grou	p			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmenta	al hazards			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
		No supplementary information	on available	·

Special precautions for user 14.6.

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

IBC code

: Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. **EU-Regulations**

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances



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Other information, restriction and prohibition regulations	: Export and import of dangerous chemicals: Not subject to Regulation (EC) No 649/2012. Ozone layer depleting substances: Not subject to Regulation (EC) No 1005/2009. Persistent organic pollutants (POPs): Not subject to Regulation (EC) No 850/2004. Control of major- accident hazards (COMAH, Seveso III): Not subject to Directive 2012/18/EC.
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15.1.2. National regulations

No additional information available

15.2.	Chemical safety assessment	
Not spe	ecifically applicable	
Mixture	S	

SECTION 16: Other information

Other information

: For this mixture, a safety data sheet is legally not required, neither due to REACH art. 31(1) nor due to REACH art. 31(3). Therefore, the compilation of this safety data sheet is done voluntarily and the safety data sheet does't have to fit the requirements of REACH annex II to the full extent.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.