

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-1020f

Date of issue: 13/07/2020

SECTION 1. Identification of the	substance/mixture and of the company/undertaking
1.1. Product identifier	substance/mixture and of the company/undertaking
Product form	: Mixture
Trade name	: CellGenix [®] Interleukin-2 – recombinant human
	(rh IL-2)
Product code	: 1020 (GMP grade); 1420 (preclinical grade)
1.2. Relevant identified uses of the s	substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Use of the substance/mixture	: Cell Culture component. For further manufacturing use (product code 1020, GMP grade) or for preclinical ex vivo use (product code 1420, preclinical grade).
1.2.2. Uses advised against	
Restrictions on use	: Not intended for human in vivo application.
1.3. Details of the supplier of the sat	fety data sheet
Supplier	E-mail address of competent person responsible for the SDS
Sartorius CellGenix GmbH Am Flughafen 16 79108 Freiburg T +49 761 888 89-0 F +49 761 888 89-830	info@ubsplus.de
1.4. Emergency telephone number	
Emergency number	: +49 761 19240 (Vergiftungs-Informations-Zentrale Freiburg, 24 h, German & English)
SECTION 2: Hazards identificatio	on
2.1. Classification of the substance	
	or mixture C) No. 1272/2008 [CLP] and 29 CFR § 1910.1200, Appendix A and B
Classification according to Regulation (E	
Classification according to Regulation (E Not classified 2.2. Label elements	
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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



Safety Data Sheet

oriented at regulation (EC) No. 1907/2006 (REACH) and US 1910.1200 App D - Safety Data Sheets

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.



Safety Data Sheet

oriented at regulation (EC) No. 1907/2006 (REACH) and US 1910.1200 App D - Safety Data Sheets

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 safe stora	ge, 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 1020, GMP grade) or for preclinical ex vivo use (product code 1420, preclinical grade). Not intended for human in vivo application.

SECTION 8: Exposure controls/personal protection

SECTION 9: Physical and chemical properties

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	· · ·
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



Safety Data Sheet

oriented at regulation (EC) No. 1907/2006 (REACH) and US 1910.1200 App D - Safety Data Sheets

Explosive properties	: Not known.
Oxidising properties	: Not known.
Explosive limits	: No data available
9.2. Other information	
Other properties	: Molecular weight : 16.3 kDa
SECTION 10: Stability and reactivity	y
10.1. Reactivity	
No dangerous reactions known under normal co	onditions 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. Image: Comparison of the second secon	
10.6. Hazardous decomposition product	
No additional information available	5
SECTION 11: Toxicological informa	tion
11.1. Information on toxicological effect	
Acute toxicity (oral) Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met) : 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)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
SECTION 12: Ecological information	n
12.1. Toxicity	
Ecology - general	: Ecological problems are not known or expected under normal use.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified
12.2. Persistence and degradability	
Recombinant Human Interleukin-2 (rh IL-2)	
Persistence and degradability	Bioaccumulation unlikely.
12.3. Bioaccumulative potential	
Recombinant Human Interleukin-2 (rh IL-2)	
Log Pow	Not determined
	Not determined

12.4. Mobility in soil

No additional information available

Log Kow

Not determined



Safety Data Sheet

oriented at regulation (EC) No. 1907/2006 (REACH) and US 1910.1200 App D - Safety Data Sheets

Results of PBT and vPvB assessment 12.5.

Recombinant Human Interleukin-2

(rh IL-2)

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

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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	R / RID / IMDG / IATA / ADN			
ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper s	shipping name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
	azard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing gro	oup			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmen	ntal 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



Safety Data Sheet

oriented at regulation (EC) No. 1907/2006 (REACH) and US 1910.1200 App D - Safety Data Sheets

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	cifically applicable	
Mixture	3	

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.