

# CellGenix® Activin A – recombinant human (rh Activin A)

# 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: 7Y-MS-1022f

Date of issue: 13/07/2020

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

# **Product identifier**

Product form : Mixture

Trade name : CellGenix<sup>®</sup> Activin A – recombinant human (rh Activin A)

Product code : 1022 (GMP grade); 1422 (preclinical grade)

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

: Cell Culture component. For further manufacturing use (product code 1022, GMP grade) or for Use of the substance/mixture

preclinical ex vivo use (product code 1422, preclinical grade).

1.2.2. Uses advised against

Restrictions on use : Not intended for human in vivo application.

# Details of the supplier of the safety data sheet

Supplier

Sartorius CellGenix GmbH Am Flughafen 16 79108 Freiburg T +49 761 888 89-0 F +49 761 888 89-830

E-mail address of competent person responsible for the SDS

info@ubsplus.de

#### **Emergency telephone number**

+49 761 19240 **Emergency number** 

(Vergiftungs-Informations-Zentrale Freiburg, 24 h, German & English)

# SECTION 2: Hazards identification

## Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] and 29 CFR § 1910.1200, Appendix A and B

Not classified

# Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] and 29 CFR § 1910.1200, Appendix C

No labelling applicable

#### 2.3. Other hazards

Other hazards not contributing to the

classification

: Cytokines and growth factors are highly bioactive proteins involved in cell signaling. Up to now, there are no test data available which would allow to classify them into one of the hazard classes according to the UN-GHS classification criteria.

However, considering their bioactivity, any unintended exposure should be avoided. Therefore, in the case of any exposure, medical advice should be seeked.

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

# **SECTION 3: Composition/information on ingredients**

# **Substances**

Not applicable

#### **Mixtures** 3.2.

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**

#### 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

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.

Wash with plenty of water (during 20 minutes minimum) with eyes wide open after taking off First-aid measures after eye contact

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.

#### Most important symptoms and effects, both acute and delayed

No additional information available

# Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# SECTION 5: Firefighting measures

# **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 substance or mixture

Fire hazard : Combustible solids.

Explosion hazard : Not known.

Hazardous decomposition products in case of

: Nitrogen oxides. Carbon monoxide. Carbon dioxide.

#### 5.3. Advice for firefighters

fire

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 measures**

## Personal precautions, protective equipment and emergency procedures

: Do not breathe Dust. Avoid contact with skin and eyes. Ventilate spillage area. In case of General measures

insufficient ventilation, wear suitable respiratory equipment.

# 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.

# **Environmental precautions**

Prevent entry to sewers and public waters.

#### 6.3. Methods and material for containment and cleaning up

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.

## Reference to other sections

No additional information available

# **SECTION 7: Handling and storage**

## Precautions for safe handling

Additional hazards when processed Avoid dust formation. Do not breathe dust.

Avoid contact with skin, eyes and clothing. If syringes are used to handle the product, be Precautions for safe handling

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 safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed.

Storage temperature : -80 - -20 °C (Shipping at ambient temperature.)

# 7.3. Specific end use(s)

Cell Culture component. For further manufacturing use (product code 1022, GMP grade) or for preclinical ex vivo use (product code 1422, preclinical grade). Not intended for human in vivo application.

# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

## 8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Materials for protective clothing : Wear proper protective equipment

Hand protection : 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)

Eye protection : Sealed safety goggles. (EN 166).

Respiratory protection : No respiratory protection needed under normal use conditions



Other information



: 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 pН 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 Not determined Flammability (solid, gas) Vapour pressure Not determined Relative vapour density at 20 °C Not determined Relative density Not determined Water: Soluble Solubility 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 : 26.2 kDa (Homodimer)

# SECTION 10: Stability and reactivity

## 10.1. Reactivity

No dangerous reactions known under normal conditions 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.

## 10.6. Hazardous decomposition products

No additional information available

# SECTION 11: Toxicological information

# 11.1. Information on toxicological effects

Acute toxicity (oral)

2. Not classified (Based on available data, the classification criteria are not met)

3. Acute toxicity (dermal)

4. Acute toxicity (inhalation)

5. Not classified (Based on available data, the classification criteria are not met)

6. Not classified (Based on available data, the classification criteria are not met)

7. Skin corrosion/irritation

8. 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

# 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 Activin A (rh Activin A)				
Persistence and degradability	Bioaccumulation unlikely.			

# 12.3. Bioaccumulative potential

Recombinant Human Activin A (rh Activin A)	
Log Pow	Not determined
Log Kow	Not determined

# 12.4. Mobility in soil

No additional information available

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# 12.5. Results of PBT and vPvB assessment

# Recombinant Human Activin A (rh Activin A)

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)

- : 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.

Sewage disposal recommendations Additional information

: Empty the packaging completely prior to disposal. Handle uncleaned empty containers as full

ones.

# **SECTION 14: Transport information**

n ac	cordance	with	ADR	/ RID	/ IMDG	/ IATA / AD	N

ADR	IMDG	IATA	ADN	RID					
14.1. UN number									
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable					
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 h	nazard 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. Environmental hazards									
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable					
	•	No supplementary information	on available	·					

# 14.6. Special precautions for user

# - 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 majoraccident hazards (COMAH, Seveso III): Not subject to Directive 2012/18/EC.

# 15.1.2. National regulations

No additional information available

# 15.2. Chemical safety assessment

Not specifically applicable Mixtures

# 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.

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