



Printing date 12.04.		Version number 4	Revision: 12.04.2023
Frade name: Collag from (	genase AF-1 GMI Clostridium histol		
11225 14			(Contd. of page 1)
	e respiratory irrita	tion.	
• Precautionary s		• 1 / / • 1 /1• /	
P280	protection.	ive gloves/protective clothing/eye pro	otection/face protection/hearing
P302+P352		Wash with plenty of water.	
P304+P340		Remove person to fresh air and keep co	
P305+P351+P3		Rinse cautiously with water for several 1 sy to do. Continue rinsing.	minutes. Remove contact lenses, ij
P333+P313	If skin irritatic	n or rash occurs: Get medical advice/at	ttention.
P342+P311	If experiencing	g respiratory symptoms: Call a POISON	CENTER/doctor.
		contents do not exceed 125 ml	
	ums GHS07, GHS	)8	
<ul> <li>Signal word Data</li> </ul>	0		
• Hazard stateme			
		a symptoms or breathing difficulties if in	nhaled.
	e an allergic skin	reaction.	
• Precautionary s			
		es/protective clothing/eye protection/fac	e protection/hearing protection.
		ith plenty of water.	
· 2.3 Other hazar			
	and vPvB assessn		
	essment not availd		
	ssessment not avai		
• Determination	of endocrine-disri	<b>pting properties</b> No further relevant info	ormation available.
SECTION 3:	Composition/inf	ormation on ingredients	
· 3.1 Substances			
· CAS No. Descri	intion		
9001-12-1 Colla			

- Identification number(s):
- · EC number: 232-582-9
- · Description:

×

• **MW:** ca. 95000

## **SECTION 4: First aid measures**

- 4.1 Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:

Immediately wash with water and soap and rinse thoroughly. Remove contaminated clothing immediately.

· After eye contact:

Rinse opened eye for several minutes under running water. Remove present contact lenses, if easy to do, and continue rinsing. Consult ophthalmologist immediately.

• After swallowing:

Wash out mouth. Drink plenty of water and supply fresh air. Seek medical advice if discomfort occurs.

- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** *No further relevant information available.*

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#### **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:
- $CO_2$ , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- $\cdot$  5.2 Special hazards arising from the substance or mixture:
- Formation of dangerous gases or vapours is possible in case of fire.
- In case of fire, the following can be formed, but not limited to:
- Nitrogen oxides (NOx)
- Carbon monoxide and carbon dioxide
- Sulphur oxides (SOx) • 5.3 Advice for firefighters
- **Protective equipment:** Wear self-contained respiratory protective device.

## **SECTION 6:** Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing. Ensure adequate ventilation Avoid formation of dust. Do not inhale dusts.
6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

- 6.3 Methods and material for containment and cleaning up Dispose contaminated material as waste according to item 13. Pick up mechanically.
- **6.4 Reference to other sections** See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

## **SECTION 7: Handling and storage**

- 7.1 Precautions for safe handling: Keep receptacles tightly sealed. Ensure good ventilation/exhaustion at the workplace. Prevent formation of dust.
   • Information about protection against explosions and fires: Protect against electrostatic charges.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- $\cdot$  Requirements to be met by storerooms and receptacles: Store at +2 to +8 °C
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed and store in dry conditions.
- 7.3 Specific end use(s): No further relevant information available.

#### **SECTION 8: Exposure controls/personal protection**

- · 8.1 Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls: No further data; see item 7.

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r i i i i i i i i i i i i i i i i i i i	protective equipment:		
• General protective and hygienic measures:			
Keep away from foodstuffs, beverages and feed.			
Store protective clothing separately.			
Immediately remove all soiled and contaminated cl	lathing		
Avoid contact with the eyes and skin.			
Wash hands before breaks and at the end of work.			
• Breathing equipment:			
Short term filter device:			
Filter P2.			
• Hand protection:			
-	stant to the product/ the substance/ the preparation.		
Protective gloves.			
	ve material can be given for the product/ the preparat		
the chemical mixture.			
Selection of the glove material on consideration	on of the penetration times, rates of diffusion and		
degradation	5 I		
· Material of gloves:			
	y depend on the material, but also on further mark		
quality and varies from manufacturer to manufactu	• •		
Penetration time of glove material:			
	y the manufacturer of the protective gloves and has to		
observed.			
· For the permanent contact of a maximum of 1.	5 minutes gloves made of the following materials		
suitable:			
Natural rubber, NR			
Nitrile rubber, NBR			
Nume nubber, NBR			
• Eye/face protection: Safety glasses			
· Eye/face protection: Safety glasses			
· Eye/face protection: Safety glasses			
• Eye/face protection: Safety glasses • Body protection: Protective work clothing.	8		
• Eye/face protection: Safety glasses • Body protection: Protective work clothing. SECTION 9: Physical and chemical propertie			
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<ul> <li>Eye/face protection: Safety glasses</li> <li>Body protection: Protective work clothing.</li> <li>SECTION 9: Physical and chemical propertie</li> <li>9.1 Information on basic physical and chemical programmed of the second state:</li> <li>9.1 Information:</li> <li>Physical state:</li> <li>Colour:</li> <li>Odour:</li> <li>Odour:</li> <li>Odour threshold:</li> <li>Melting point/freezing point:</li> <li>Boiling point or initial boiling point and boiling range:</li> <li>Flammability:</li> <li>Lower and upper explosion limit:</li> <li>Lower:</li> <li>Upper:</li> <li>Flash point:</li> <li>Decomposition temperature:</li> <li>pH:</li> <li>Viscosity:</li> <li>Kinematic viscosity:</li> <li>Solubility:</li> </ul>	roperties Solid. white to almost white Weak, characteristic Not determined. no information available no information available Product is not flammable. Not determined. Not determined. Not applicable Not determined. 6-7 Not applicable. Not applicable. Not applicable.		

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Density and/or relative density:		
Density:	no information available	
Relative density:	Not determined.	
Particle characteristics	No information available	
9.2 Other information		
Appearance:		
Form:	lyophilisate	
Important information on protection of	of health and	
environment, and on safety:	•	
Explosive properties:	Product is not explosive. However, formation o	
	explosive dust-/air mixtures are possible.	
· Molecular weight	~95,000 g/mol	

## **SECTION 10: Stability and reactivity**

- · 10.1 Reactivity: No further relevant informations available
- · 10.2 Chemical stability:
- · Thermal decomposition / conditions to be avoided: Protein denaturation
- 10.3 Possibility of hazardous reactions: No further relevant informations available.
- 10.4 Conditions to avoid: No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: In case of fire: See Section 5

## SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:
- · Acute toxicity: Based on available data, the classification criteria are not met.
- · Skin corrosion/irritation: Causes skin irritation.
- · Serious eye damage/irritation: Causes serious eye irritation.
- · Respiratory or skin sensitisation:
- May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
- Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · Carcinogenicity: Based on available data, the classification criteria are not met.
- *Reproductive toxicity:* Based on available data, the classification criteria are not met.
- · STOT-single exposure: May cause respiratory irritation.
- STOT-repeated exposure: Based on available data, the classification criteria are not met.
- · Aspiration hazard: Based on available data, the classification criteria are not met.
- 11.2 Information on other hazards:
- · Endocrine disrupting properties: no relevant information available

## **SECTION 12: Ecological information**

- · 12.1 Toxicity:
- Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability: No further relevant information available.
- 12.3 Bioaccumulative potential: No further relevant information available.
- 12.4 Mobility in soil: No further relevant information available.
- 12.5 Results of PBT and vPvB assessment:
- **PBT:** PBT assessment not available.
- · **vPvB**: vPvB assessment not available.

• 12.6 Endocrine disrupting properties: For information on endocrine disrupting properties see section 11.

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· 12.7 Other adverse effects:

· Additional ecological information:

· General notes:

Do not allow product to reach ground water, water course or sewage system. Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

## **SECTION 13: Disposal considerations**

· 13.1 Waste treatment methods

· Recommendation

Disposal must be made according to official regulations.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation:

Disposal of uncleaned packagings must be made according to official regulations in the same manner as the product.

• **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## SECTION 14: Transport information

Void
Void
Void
Void
No
Not applicable.
Not applicable.
Not dangerous according to the above specifications.
Void

# SECTION 15: Regulatory information

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

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I Substance is not listed.

• DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

Substance is not listed.

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according to 1907/2006/EC, Article 31				
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Trade name: Collagenase AF-1 from Clostridium				
· REGULATION (EU) 2019/	/11/0	(Contd. of page 6)		
<ul> <li>Annex I - RESTRICTED E under Article 5(3))</li> <li>Substance is not listed.</li> <li>Annex II - REPORTABLE</li> <li>Regulation (EC) No 273/20</li> </ul>	EXPLOSIVES PRECURSORS (Upper limit v EXPLOSIVES PRECURSORS Substance is v 004 on drug precursors Substance is not listed. 005 laying down rules for the monitoring of t	not listed.		
<i>third countries in drug prec</i> <i>Substance is not listed.</i>				
· National regulations:				
· Technical instructions (air)	):			
Class Share in %				
I 80-100				
	hazard class 1 (Self-assessment): slightly haza			
· 15.2 Chemical safety assess	sment: A Chemical Safety Assessment has not	been carried out.		
SECTION 16. Other info				
	n our present knowledge. However, this shall d shall not establish a legally valid contractua			
• Department issuing SDS: P	Product safety department	-		
• Contact: Tel.: +49 4122 712 • Date of previous version: 28				
• Abbreviations and acronym				
ICAO: International Civil Aviation RID: Règlement international cond	Organisation cernant le transport des marchandises dangereuses par	chemin de fer (Regulations Concerning the		
International Transport of Dangero PBT: persistent, bioaccumulative, to	- · · · · · · · · · · · · · · · · · · ·			
vPvB: very persistent, very bioaccu		ion of Chamicals		
GB CLP: Regulation on classification	ion, labelling and packaging of substances and mixtures	on of Chemicuis		
bw: body weight ADR: Accord relatif au transport International Carriage of Dangerou IMDG: International Maritime Cod		ute (European Agreement Concerning the		
IATA: International Air Transport A				
EINECS: European Inventory of Ex	xisting Commercial Chemical Substances			
CAS: Chemical Abstracts Service (a PBT: Persistent, Bioaccumulative a	division of the American Chemical Society) Ind Toxic			
vPvB: very Persistent and very Bioa Skin Irrit. 2: Skin corrosion/irritatio				
Eye Irrit. 2: Serious eye damage/eye Resp. Sens. 1: Respiratory sensitisa	e irritation – Category 2			
Skin Sens. 1: Skin sensitisation – Ca	ategory 1			
STOT SE 3: Specific target organ to	oxicity (single exposure) – Category 3	GB		

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