

SAFETY DATA SHEET

(Reach Regulation (EC) NO 1907/2006 – 453/2010)

SECTION 1: Identification of the Substance/ Mixture and of the Company/ Undertaking**1.1. Product identifier**

- Product name: **Anti-Clotting Reagent**
- Product code: **GGS-JL001**
- Pack size: **200mg to make 100mls working solution**
- REACH: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

Identified uses: Laboratory chemicals, Manufacture of substances

Anti-Clotting Reagent

Is an additive that quickly breaks down the proteins the comprise blood clots within cytogenetic samples.

Anti-Clotting Reagent

Contains no trace of streptokinase which can be toxic to cells. Therefore most clotted cells, that may have previously been lost, can be rescued.

1.3. Details of the supplier of the safety data sheet

- Registered company name: Genial Helix Limited
- Address: Genial Helix, CoWorkz Business Centre, Minerva Avenue, Off Sovereign Way, Chester, Flintshire, CH1 4QL, U.K.
- Telephone: +44 (0)1244 757 155
- Email: info@genialhelix.com
- Website: www.genialhelix.com

1.4. Emergency telephone number: +44 (0)1244 757 155

- Emergency Response Organisation: Genial Helix Limited | www.genialhelix.com

SECTION 2: Hazards Identification**2.1. Classification of the substance or mixture in compliance with EC regulation No. 1272/2008 and its amendments.**

- Skin irritation (Category 2), H315
- Eye irritation (Category 2), H319
- Respiratory sensitisation (Category 1), H334
- Specific target organ toxicity – single exposure (Category 3), Respiratory System H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Xi	Irritant	R36/37/38 R42
Xn	Harmful	R36/37/38 R42

For the full text of the R-phrases mentioned in this Section, see Section 16.

2.2. Label elements**Labelling in compliance with EC regulation No. 1272/2008 and its amendments**

Pictograms:





Single Word:	Danger
Hazard statement(s)	
H315	Causes skin irritation
H319	Causes serious eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation
Precautionary statement(s)	
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray
P305 + P351 + P383	IF IN EYES: Rinse immediately with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/ physician.
Supplement Hazard Statements	None
2.3. Other Hazards	None

SECTION 3: Composition/information on ingredients

3.1. Substances

Synonyms: Protease from Bacillus polymyxa

 Clostridiopeptidase A

Hazardous ingredients according to Regulation (EC) No 1272/2008	
Component	Classification
Dispase	
CAS No: 42613-33-2 EC-No: 255-914-4	Skin Irrit. 2; Eye Irrit. 2; Resp. Sens. 1; STOT SE 3; H315, H319, H334, H335
Collagenase	
CAS No: 9001-12-1 EC-No: 232-582-9	Skin Irrit. 2; Eye Irrit. 2; Resp. Sens. 1; STOT SE 3; H315, H319, H334, H335

Hazardous ingredients according to Directive 1999/45/EC	
Component	Classification
Dispase	
CAS No: 42613-33-2 EC-No: 255-914-4	Xn, R36/37/38 – R42
Collagenase	
CAS No: 9001-12-1 EC-No: 232-582-9	Xi, R36/37/38 – R42

For the full text of the H-Statements and R-Phrases mentioned in the Section, see Section 16

SECTION 4: First aid measures**4.1. Description of first aid measures****General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2. Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/ or in section 11.

4.3. Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Nature of decomposition products not known

5.3. Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary

5.4. Further information

No data available

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2. Environmental precautions

Do not let product enter drains

6.3. Methods and materials for containing and cleaning up

Contain spillage, and then collect. Wear a lab coat and rubber gloves, wipe with paper tissues and keep in suitable container for disposal.

6.4. Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Avoid contact with skin or eyes. Keep container tightly closed when not in use. Provide appropriate exhaust ventilation. For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Store undissolved product at 4°C in a refrigerator in a dark container. Keep lid tightly closed. Correctly stored, the product is stable for up to 12 months. Frozen, dissolved solution can be stored for up to 12 months.

Never heat, freeze or expose the powdered product to drastic pH changes

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Components with workplace control parameters**

Contains no substances with occupational exposure limit values

8.2 Exposure controls**Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment**Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body protection

Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

Control of environmental exposures

Do not let product enter drains

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

a)	Appearance	Form: Solid (white powder)
b)	Odour	Odourless
c)	Odour Threshold	No data available
d)	pH	7.4– 7.5
e)	Melting point/ freezing Point	No data available
f)	Initial boiling point and boiling range	No data available
g)	Flash point	N/A
h)	Evaporation rate	N/A
i)	Flammability (liquid)	Non-Flammable
j)	Upper/lower flammability or explosive limits	N/A
k)	Vapour pressure	As of water (0.3 atm)
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	Soluble
o)	Partition coefficient:	No data available

	noctanol/water	
p)	Auto-ignition temperature	N/A
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	Nil
t)	Oxidizing properties	Nil

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity**10.1 Reactivity**

No data available

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidising agents

10.6 Hazardous decomposition productsOther decomposition products – No data available
In the event of fire: see section 5**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

No data available

Skin corrosion/ irritation

No data available

Serious eye damage/ eye irritation

No data available

Respiratory or skin sensitisation

Inhalation: Irritating to respiratory system

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity – single exposure

No data available

Specific target organ toxicity – repeated exposure

Inhalation – May cause respiratory irritation

Aspiration hazard



RTECS: Not available

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

No data available

No data available

No data available

Mobility in soil
No data available

PBT/vPvB assessments not available as chemical safety assessment not required/ not conducted

No data available

SECTION 13: Disposal considerations

Product

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

Use approved government contractor.

Observe all International, National, State and Local environmental laws.

Contaminated packaging

Dispose of as unused product

SECTION 14: Transport information

ADR/RID: -

IMDG: -

IATA: -

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

ARD/RID: -

IMDG: -

IATA: -

ADR/RID: -

IMDG: -

IATA: -

ADR/RID: no

IMDG Marine pollutant: no

IATA: no



14.6 **Special precautions for user**
No data available



SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006

- 15.1 Safety, health and environmental regulations/ legislation specific for the substances or mixture**
No data available
- 15.2 Chemical Safety Assessment**
For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

Eye Irrit.	Eye irritation
H315	Causes skin irritation
H319	Causes serious eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation
Resp. Sens.	Respiratory sensitisation
Skin Irrit.	Skin irritation
STOT SE	Specific target organ toxicity – single exposure

Full text of R-phrases referred to under sections 2 and 3

Xn	Harmful
R36/37/38	Irritating to eyes, respiratory system and skin
R42	May cause sensitisation by inhalation

Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Genial Helix Ltd and its Affiliates will not be held liable for any damage resulting from handling or from contact with the above product.