

SAFETY DATA SHEET

(Reach Regulation (EC) NO 1907/2006)

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

- Product name: **Cytoclear Cytoplasm Remover**
- Product code: **GGS-JL-004**
- Pack size: **1ml vial**
- 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

Cytoclear Cytoplasm Remover

Is a formulation which quickly dissolves and removes persistent cytoplasm during the methanol:acetic acid fixation stage of chromosome harvesting. In particular it dissolves the lipid and glycoprotein structure of which the cytoplasm is mainly composed.

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.**

- Eye irritation (Category 2), H319
- Skin irritation (Category 2), H315
- 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.

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

Pictograms:



Single Word:

Danger

Hazard statement(s)

H319

Causes serious eye irritation

H315

Causes skin irritation

H334

May cause allergy or asthma or breathing difficulties if inhaled.

H335

May cause respiratory irritation.

Precautionary statement(s).



P302 + P352
P305 + P351 + P338
IF ON SKIN: Wash with plenty of water
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplement Hazard Statements
None

Reduced Labelling (<= 125ml)

Pictograms:



Single Word:
Danger

Hazard statement(s)
H334
May cause allergy or asthma or breathing difficulties if inhaled.

Precautionary statement(s).
None

Supplement Hazard Statements
None

2.3. Other Hazards
This substance/ mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1. Substances

Hazardous ingredients according to Regulation (EC) No 1272/2008	
Component	Classification
Proteinase	
CAS No: 9001-92-7 EC No: 232-642-4	Skin Irrit. 2; Eye Irrit. 2; Resp Sens. 1; STOT SE 3 ; H315, H319, H334, H335

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

Full 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 according to local regulations. Keep in suitable container, closed containers for disposal.

6.4. Reference to other sections

For disposal see section 13.

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

Avoid contact with skin or eyes. Keep container tightly closed when not in use.

Advice on protection against fire and explosion

Provide appropriate exhaust ventilation.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at end of workday. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities**Storage conditions**

Keep container tightly closed in a dry and well-ventilated place.

Storage stability

Store product at 6°C in a refrigerator in a suitable container and away from light. Keep lid tightly closed. NEVER FREEZE

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****Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values

8.2 Exposure controls**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 Regulation (EU) 2016/425 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

For nuisance exposure use type P96 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respiratory cartridges. 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)	Physical state	Liquid (clear/ slightly yellow)
b)	Odour	Odourless
c)	Odour Threshold	No data available
d)	pH	7.4 – 7.9
e)	Melting point/ freezing Point	No data available
f)	Initial boiling point and boiling range	101.1°C
g)	Flash point	N/A
h)	Evaporation rate	No data available
i)	Flammability (liquid)	Non-Flammable
j)	Upper/lower flammability or	N/A

	explosive limits	
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: N octanol/water	No data available
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**

Oral: No data available

Inhalation: No data available

Dermal: No data available

Skin corrosion/ irritation

No data available

Serious eye damage/ eye irritation

No data available

Respiratory or skin sensitisation

No data available

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

No data available

Aspiration hazard

No data available

Additional information

RTECS: UK9540000

Prolonged or repeated exposure can cause: Asthma

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

SECTION 12: Ecological information**12.1 Toxicity**

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/ mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations**13.1 Waste treatment methods****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. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EEC as well as other 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**Limited Quantity – 0.01% per 1ml vial****14.1 UN number**

ADR/RID: -

IMDG: -

IATA: -



14.2	UN proper shipping name ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods		
14.3	Transport hazard class(es) ADR/RID: -	IMDG: -	IATA: -
14.4	Packaging group ADR/RID: -	IMDG: -	IATA: -
14.5	Environmental hazards ADR/RID: no	IMDG Marine pollutant: no	IATA: no
14.6	Special precautions for user No data available		
	Further information Not classified as dangerous in the meaning of transport regulations		

SECTION 15: Regulatory information

15.1	Safety, health and environmental regulations/ legislation specific for the substances or mixture This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006
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.

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

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.