

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: **Chromosome Resolution Additive**
- Product code: **GGS-JL-003a**
- Pack size: **1ml vial**
- GTIN-13: **5060174130069**
- GMDN: **30621 'Chromosome Culture Kit'**
- 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

Recommended Use: In Vitro Diagnostics
Identified uses: Laboratory chemicals

Chromosome Resolution Additive

Is a formulation that consistently prevents chromosome contraction and encourages chromosome elongation by loosening the chemical bonding within the supercoiled structure. It has been designed for use with tissues resistant to existing prophase techniques such as bone marrows and solid tumors.

1.3. Details of the supplier of the safety data sheet

- Registered company name: Genial Helix Limited
- Address: Genial Helix, Evans 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.

- Acute toxicity, Oral (Category 3), H301
- Eye irritation (Category 2), H319
- Acute aquatic toxicity (Category 1), H400

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

T	Toxic	R25
N	Dangerous for environment	R50

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)
H301 Toxic if swallowed

H319 Causes serious eye irritation
H400 Very toxic to aquatic life

Precautionary statement(s).

P273

Avoid release to the environment

P301 + P310

If SWALLOWED: Immediately call a POISON CENTRE or doctor/ physician.

P305 + P351 + P338

IF IN EYES: Rinse immediately with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplement Hazard Statements

None

2.3. Other Hazards

None

SECTION 3: Composition/information on ingredients

3.1. Substances

Synonyms:

Sodium Nitrite

Magnesium Chloride

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Classification	By %
Sodium Nitrite		
CAS No: 7632-00-0 EC No: 231-555-9	Acute Tox. 3; Eye Irrit, 2; Aquatic Acute 1; H272, H301, H319, H400	0.0001% in Stock Solution

Hazardous ingredients according to Directive 1999/45/EC

Component	Classification	
Sodium Nitrite		
CAS No: 7632-00-0 EC No: 231-555-9	T, N, R25 – R50	2 – 5%

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. Take victim immediately to hospital. 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

Wear respiratory protection. 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. Discharge into the environment must be avoided.

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

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

7.2. Conditions for safe storage, including any incompatibilities

Store product at 4°C in a refrigerator in a suitable container. Keep lid tightly closed. Correctly stored, the product is stable for up to 12 months.

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. Avoid contact with skin, eyes and clothing. 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

Where risk assessment shows air-purifying respirators are appropriate use full-face particle type N100 (US) or type P3 (EN 143) respirator 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. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	Form: Liquid (red)
b) Odour	Odourless
c) Odour Threshold	No data available
d) pH	6.8 - 7.8
e) Melting point/ freezing Point	No data available
f) Initial boiling point and boiling range	98°C
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: noctanol/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 products
Other 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
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
Inhalation – May cause respiratory irritation

Aspiration hazard
No data available

Additional information
RTECS: Not available

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

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.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Eye Irrit.	Eye irritation
H301	Toxic if swallowed
H319	Causes serious eye irritation
H400	Very toxic to aquatic life

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

N	Dangerous for the environment
T	Toxic
R25	Toxic if swallowed
R50	Very toxic to aquatic organisms

Further information

Copyright 2017 Genial Helix Ltd.

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.
