

## SAFETY DATA SHEET

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

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### SECTION 1: Identification of the Substance/ Mixture and of the Company/ Undertaking

#### 1.1. Product identifier

- Product name: **Pre-Hypotonic Solution**
- Product code: **GGS-JL007**
- Pack size: **5mls stock 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

##### **Pre-Hypotonic Solution**

Is to be used before the hypotonic stage of a blood or bone marrow harvest, pre-hypotonic solution makes the hypotonic step more effective by circumventing the tendency of chromosomes to clump or to under-spread.

#### 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](mailto:info@genialhelix.com)
- Website: [www.genialhelix.com](http://www.genialhelix.com)

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

- Emergency Response Organisation: Genial Helix Limited | [www.genialhelix.com](http://www.genialhelix.com)

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### SECTION 2: Hazards Identification

#### 2.1. Classification of the substance or mixture in compliance with EC regulation No. 1272/2008 and its amendments.

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

#### 2.2. Label elements

##### Labelling in compliance with EC regulation No. 1272/2008 and its amendments

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

#### 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 or 0.1% or higher.

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Synonyms: PBS

Component
KCL
CAS No: 7447-40-7
EC-No: 231-211-8
Cl <sub>2</sub> Mg
CAS No: 7786-30-3
EC-No: 232-094-6

No components need to be disclosed according to the applicable regulations.

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### SECTION 4: First aid measures

**4.1. Description of first aid measures****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.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes.

**If swallowed**

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

**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

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**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**

Oxides of phosphorus, Hydrogen chloride gas, Potassium oxides, Sodium oxides, Magnesium oxides

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary

**5.4. Further information**

No data available

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**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. 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.

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

Never freeze or heat the product.

**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: Liquid (Clear)
b)	Odour	Odourless
c)	Odour Threshold	No data available
d)	pH	7.4 (in liquid form)
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	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	Soluble
o)	Partition coefficient: noanol/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

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**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 acids, strong oxidising agents

**10.6 Hazardous decomposition products**

Other decomposition products – No data available

In the event of fire: see section 5

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**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**

No data available

**Aspiration hazard**

No data available

**Additional information**

RTECS: Not available

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

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## 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

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

### 12.6 Other adverse effects

No data available

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## 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. 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

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## SECTION 14: Transport information

### 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)

ARD/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



**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****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.