

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY UNDERTAKING

- **Product identifiers**

Product Name: Recombinant Proteins

- **Relevant identified uses of the substance or mixture and uses advised against**

Research use only. Not for human use.

- **Details of the supplier of the safety data sheet**

Company Cell Guidance Systems
Moneta Building, Babraham Research Campus,
Cambridge CB22 3AT, UK

Web www.cellgs.com
Email tech@cellgs.com
Telephone +44 (0)1223 967316

- **Emergency Information**

In case of a chemical emergency, spill, fire, or exposure, call Cell Guidance Systems at +44 (0) 1223 967316 (09.00 - 17.00 GMT). In US call 760 450 4304.

2. HAZARDS IDENTIFICATION

- **Classification of the substance or mixture**

Not a hazardous substance or mixture.

This substance does not meet the classification criteria of the EC Directives 67/548/EEC, 1999/45/EC or 1272/2008.

- **Label elements**

The product does not need to be labeled in accordance with EC directives or respective national laws.

- **Other hazards**

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

- **Substances**

The product does not contain any hazardous substances at concentrations of 1% or greater. The product is not known to contain carcinogens at a concentration of 0.1% or greater. No MSDS is required.

4. FIRST AID MEASURES

- **Description of first aid measures**

General advice: Consult a doctor and show this safety data sheet.

If inhaled: Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen.

	If breathing stops, give artificial respiration. Consult a doctor.
In case of skin contact:	Immediately wash skin with copious amounts of soap and water and rinse thoroughly. Generally the product does not irritate the skin. Consult a doctor.
In case of eye contact:	Flush with copious amounts of water for several minutes. Consult a doctor.
If swallowed:	Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.

5. FIRE-FIGHTING MEASURES

- **Classification of substance**

The product is non-flammable.

- **Suitable extinguishing media**

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

- **Protective Equipment**

Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

- **Personal precautions, protective equipment and emergency procedures**

Use standard laboratory practices including proper personal protective equipment. Implement appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

- **Environmental precautions**

Do not let product enter drains.

- **Methods and materials for containment and cleaning up**

Cover spillage with suitable absorbent material. Using non-spark tools, sweep up material and place in an appropriate container. Ventilate area until after disposal is complete. Hold all material for appropriate disposal as described under section 13 of MSDS.

- **Additional information**

None

7. HANDLING AND STORAGE

- **Precautions for safe handling**

No special measures required. No special precautions are necessary if used correctly. Avoid inhalation, contact with eyes, skin and clothing.

- **Conditions for safe storage, including any incompatibilities**

Keep away from direct sunlight. Keep container tightly sealed until ready for use. Recommended storage temperature: Store at -20°C

- **Specific end uses**

None

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- **Control parameters**

Components with workplace control parameters None known. Contains no substances with occupational exposure limit values.

- **Exposure controls**

Appropriate engineering controls

Ensure all engineering measures described under section 7 of MSDS are in place.
Follow usual standard laboratory practices. Use appropriate personal protective work clothing.

- **Personal protective equipment**

Eye / face protection

Use appropriate safety glasses.

Skin protection

Use appropriate chemical resistant gloves. Gloves should be inspected before use.

Wash and dry hands thoroughly after handling.

Body protection

Wear appropriate protective clothing.

Respiratory protection

Respiratory equipment is not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

- **Information on basic physical and chemical properties**

Appearance

Lyophilized white powder or clear liquid

Vapor pressure

No data available

Vapor density

No data available

Odor

Little to none

Odor threshold

No data available

Relative density

No data available

pH

No data available

Solubility(ies)

Solubility specified in product datasheet

Melting / freezing point

No data available

Partition coefficient

No data available

Boiling point / range

No data available

Auto-ignition temperature

No data available

Flash point

No data available

Decomposition temperature

No data available

Evaporation rate

No data available

Viscosity

No data available

Flammability (solid, gas)

Non-flammable material

Explosive properties

No data available

Upper / lower flammability or explosive limits

No data available

Oxidising properties

No data available

- **Other safety information**

No data available

10. STABILITY AND REACTIVITY

Reactivity

Stable under recommended transport or storage conditions.

Chemical stability

Stable under recommended storage and handling conditions.

Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions.

Conditions to avoid

Heat, light, moisture.

Incompatible materials

Strong acids/alkalis, strong oxidising/reducing agents.

Hazardous decomposition products

In combustion may emit toxic fumes. No known decomposition information.

11. TOXICOLOGICAL INFORMATION

- Information on toxicological effects**

Acute Toxicity
 Skin corrosion/irritation
 Serious eye damage/irritation
 Respiratory or skin sensitization
 Germ cell mutagenicity
 Carcinogenicity
 Reproductive toxicity
 Specific target organ toxicity - single exposure
 Specific target organ toxicity - repeated exposure

Classification criteria are not met based on available data
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Additional Information

RTECS No: Not available
 When used and handled according to specifications, the product does not have any harmful effects according to available information.

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

12. ECOLOGICAL INFORMATION**Ecotoxicity**

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

No data available

Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

- **Waste treatment methods**

Product	Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with national, regional, or local legislation.
Contaminated packaging	Dispose in accordance with national, regional, or local legislation.

14. TRANSPORT INFORMATION

- **UN Number**

Does not meet the criteria for classification as hazardous for transport.

- **DOT regulations**

Hazard class: None

- **Land transport ADR/RID (cross-border)**

Not regulated.

- **Maritime transport IMDG**

Not regulated.

- **Marine pollutant**

No.

- **Air transport ICAO-TI and IATA-DGR**

Not regulated.

- **Transport/Additional information**

Not dangerous according to the above specifications.

- **Environmental hazards**

This product is not classified as environmentally hazardous according to the UN Model Regulations.

- **Special precautions for users**

No data available.

15. REGULATORY INFORMATION

- **USA**

TSCA (Toxic Substances Control Act)

The product is not listed.

SARA 313

The product is not listed.

SARA 311/312 Hazards

None known.

CERCLA Reportable Quantity

The product is not reportable under 40 CFR Part 302.4.

California Proposition 65

The product is not listed on California's listing of known or potential carcinogens.

- **EU**

This MSDS was prepared in accordance with Regulation (EC) No.1272/2008 and European Directive 67/548/EEC as amended.

- **Canada**

Not WHMIS controlled. This MSDS was prepared in accordance with Hazardous Products Regulations (HPR) and WHMIS 2015.

16. OTHER INFORMATION

- **Disclaimer**

THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES.

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End of safety data sheet