

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

- **Product identifiers**

Product Name: MEMO
Catalogue Number: M06

- **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.

Contact with acids or bleach liberates toxic gases. DO NOT ADD acids or bleach to any liquid wastes containing this product. The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

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. Remove contaminated clothing and shoes and wash before reuse. 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.

- **Most important symptoms and effects, both acute and delayed**

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

- **Indication of immediate medical attention and special treatment needed**

Show this safety data sheet to the doctor in attendance. Medical attention is required. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

- **Suitable extinguishing media**

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

- **Special hazards arising from the substance or mixture**

In combustion, may emit toxic fumes such as carbon monoxide.

- **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**

Do not take action without suitable protective clothing - see section 8 of MSDS. 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. Evacuate personnel to safe areas. Ensure ventilation. Avoid breathing vapours, mist, dust or gas.

- **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**

Use in a chemical fume hood, with air supplied by an independent system. Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Use in a well-ventilated area. Keep away from sources of ignition. Avoid prolonged or repeated exposure.

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

Keep away from direct sunlight. Keep in a dry, cool and well-ventilated place. Keep container tightly sealed until ready for use. Recommended storage temperature: Store at -20°C

- **Specific end uses**

Use in a laboratory fume hood where possible. Refer to employer's COSHH risk assessment.

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 Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of MSDS are in place. Follow usual standard laboratory practices. Use appropriate personal protective work clothing. Ensure laboratory is equipped with a safety shower and eye wash station.

- **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	Liquid
Vapor pressure	No data available
Vapor density	No data available
Odor	No data available
Odor threshold	No data available
Relative density	No data available
pH	No data available
Solubility(ies)	Soluble in water
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)	No data available

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. Contact with acids or bleach liberates toxic gases. DO NOT ADD acids or bleach to any liquid wastes containing this product.

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. Sodium hypochlorite.

Hazardous decomposition products

In combustion may emit toxic fumes. No known decomposition information. Hazardous polymerisation does not occur.

11. TOXICOLOGICAL INFORMATION

- **Information on toxicological effects**

Acute Toxicity	Classification criteria are not met based on available data
Skin corrosion/irritation	May cause skin irritation in susceptible persons
Serious eye damage/irritation	May cause eye irritation in susceptible persons
Respiratory or skin sensitization	Classification criteria are not met based on available data
Germ cell mutagenicity	Classification criteria are not met based on available data
Carcinogenicity	Classification criteria are not met based on available data
Reproductive toxicity	Classification criteria are not met based on available data
Specific target organ toxicity - single exposure	Classification criteria are not met based on available data
Specific target organ toxicity - repeated exposure	Classification criteria are not met based on available data

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.

Exposure may cause irritation to eyes, mucous membranes, upper respiratory tract and skin.

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

Inherently biodegradable.

Bioaccumulative potential

Does not bioaccumulate.

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.
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Contaminated packaging	Dispose of in a regulated landfill site or other method for hazardous or toxic wastes in accordance with national, regional, or local legislation.
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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**

SARA 313

This product is not regulated by SARA. All chemicals are below the threshold values.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs.

US State Regulations

The product is not regulated.

California Proposition 65

This product does not contain chemicals listed under Proposition 65.

- **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.

- **Chemical Safety Assessment**

A Chemical Safety Assessment has not been made for this product.

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