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

1.1. Product Identifiers
- Product Code(s): HB0720
- Product Name: Calcein AM

1.2. Relevant identified uses of the substance or mixture and uses advised against
- Recommended use: For research use only – Not for human use
- Uses advised against: No information available

1.3. Details of the supplier of the safety data sheet
- Supplier: HelloBio Ltd
  - Unit 3 IO Centre
  - Cabot Park
  - Moorend Farm Avenue
  - Avonmouth
  - Bristol
  - BS11 0QL
  - UK
  - Tel: +44 (0)117 318 0505
  - Fax: +44 (01179 811 601
  - For further information, please contact: technicalhelp@hellobio.com

1.4. Emergency Telephone number
- Emergency telephone: Tel: +44 (0)117 318 0505

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture
- GHS/CLP – REGULATION (EC) No 1272/2008
- DSD/DPD – Classification according to EU Directives 67/548/EEC or 1999/45/EC

According to present data no classification and labelling is required according to Directives 67/548/EEC or 1999/45/EC

2.2. Label Elements
- Not Dangerous

2.3. Other hazards
- Caution – substance not yet completely tested
3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Product Name: Calcein AM
Synonyms: 
Formula: C_{46}H_{46}N_{2}O_{23}  Molecular Weight: 994.86
CAS Number 148504-34-1

4. FIRST AID MEASURES

4.1. Description of first aid measures

Eye contact
Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If symptoms persist, call a physician.

Skin Contact
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.

Ingestion
Rinse mouth. If symptoms persist, call a physician

Inhalation
Move to fresh air. If symptoms persist, call a physician.

4.2. 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.

4.3. Indication of immediate medical attention and special treatment needed

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

5. FIRE-FIGHTING 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

In combustion, may emit toxic fumes.

5.3. Precautions for fire-fighters

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

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

Do not let product enter drains.

6.3. 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. Decontaminate spill site with 10% caustic solution and ventilate area until disposal is complete. Hold all material for appropriate disposal as described under section 13 of SDS.

6.4. Reference to other sections

For required PPE see section 8. For disposal see section 13.
7. HANDLING AND STORAGE

7.1. 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.

7.2. Conditions for safe storage, including any incompatibilities.
Store in cool, well-ventilated area. Keep away from direct sunlight. Keep container tightly sealed until ready for use. Recommended storage temperature: Store at -20°C

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

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
Use in a fume hood where applicable. Ensure all engineering measures described under section 7 of SDS are in place. 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 (minimum requirement use standard BS EN 374:2003). Gloves should be inspected before use. Wash and dry hands thoroughly after handling.

Body protection
Wear appropriate protective clothing.

Respiratory protection
If risk assessment indicates necessary, use a suitable respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Off-white solid</td>
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<tr>
<td>Odour</td>
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</tr>
<tr>
<td>Odour threshold</td>
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</tr>
<tr>
<td>pH</td>
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</tr>
<tr>
<td>Melting/freezing point</td>
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</tr>
<tr>
<td>Boiling point/range</td>
<td>No data available</td>
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<tr>
<td>Flash Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
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</tr>
<tr>
<td>Flammability (solid, gas)</td>
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<tr>
<td>Upper/lower flammability or explosive limits</td>
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<tr>
<td>Vapour pressure</td>
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<tr>
<td>Vapour density</td>
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<tr>
<td>Relative density</td>
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<tr>
<td>Solubility(ies)</td>
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<td>Partition coefficient</td>
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<tr>
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<tr>
<td>Decomposition</td>
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<tr>
<td>Decomposition temperature</td>
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</tr>
<tr>
<td>Viscosity</td>
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<tr>
<td>Explosive properties</td>
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<tr>
<td>Oxidising properties</td>
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</tr>
</tbody>
</table>

9.2. Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1. Reactivity
Stable under recommended transport or storage conditions.
10.2. Chemical Stability
Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions
Hazardous reactions will not occur under normal transport or storage conditions.

10.4. Conditions to avoid
Heat, moisture

10.5. Incompatible materials
Strong acids/alkalis, strong oxidising/reducing agents.

10.6. Hazardous decomposition products
Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx).

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute Toxicity
Inhalation No Information available
Eye contact No Information available
Skin contact No Information available
Ingestion No Information available

Chronic toxicity
Corrosivity No Information available
Sensitization No Information available
Neurological effects No Information available
Reproductive toxicity No Information available
Mutagenic effects No Information available
Target Organ Effects No Information available

12. ECOLOGICAL INFORMATION

12.1. Toxicity
Ecotoxicity effects
As supplied, the preparation is not expected to present significant adverse environmental effects

12.2. Persistence and degradability
No Information available

12.3. Bioaccumulative potential
No Information available

12.4. Mobility in soil
No Information available

12.5. Results of PBT and vPvB assessment
No Information available

12.6. Other adverse effects
No Information available
13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused products
Dispose of in accordance with local regulations

Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal.

Other information
According to the European Waste Catalogue. Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

14. TRANSPORT INFORMATION

ADR Not dangerous goods
IATA Not dangerous goods
DOT Not dangerous goods

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
No information available

15.2. Chemical Safety Assessment
No information available

16. OTHER INFORMATION

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless stated in the text.