



i-Ome Protein Array

SAFETY DATA SHEET



SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

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|-----|--|--|
| 1.1 | Product Identifier | |
| | Trade name | i-Ome Protein Array |
| | Reference no. | 40010 |
| 1.2 | Relevant Identified Uses of the Substance or Mixture and Uses Advised Against | |
| | Identified use(s) | Analytical reagent. For research use only. |
| 1.3 | Details of the Supplier of the Safety Data Sheet | |
| | Company identification | Sengenics Corporation Pte Ltd Floor M, Tower A, Plaza Zurich Jalan Gelenggang 50490 Bukit Damansara Kuala Lumpur MALAYSIA |
| | Telephone | +603-27001364 |
| | E-mail | enquiries@sengenics.com |
| 1.4 | Emergency Telephone Number | |
| | Emergency phone no. | |

SECTION 2: HAZARD IDENTIFICATION

| | | |
|-----|---|--|
| 2.1 | Classification of the Substance or Mixture Regulation (EC) No. 1272/2008 (CLP) | Not classified as hazardous |
| | Directive 67/548/EEC & Directive 1999/45/EC | Not classified as dangerous for supply/use |
| | OSHA Hazard Communication Standard 29 CFR 1910.1200 (HazCom 2012)/GHS | Not classified as hazardous |
| 2.2 | Label Elements | No measures required |
| 2.3 | Other Hazards | None anticipated |

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| 3.1 | Mixtures | <p>Description: Microarray slide containing immobilised recombinant proteins immersed in a glycerol water mixture solution.</p> <p>Dangerous components: EC Classification No. 1272/2008 / GHS</p> <table border="1" data-bbox="464 506 1449 667"> <thead> <tr> <th>Hazardous ingredient(s)</th> <th>%W/W</th> <th>EC No.</th> <th>CAS No.</th> <th>Classification code: Hazard statement(s)</th> </tr> </thead> <tbody> <tr> <td>Glycerol</td> <td>60</td> <td>200-289-5</td> <td>56-81-5</td> <td>-</td> </tr> </tbody> </table> <p>EC Classification No. 67/548/EEC</p> <table border="1" data-bbox="464 757 1449 918"> <thead> <tr> <th>Hazardous ingredient(s)</th> <th>%W/W</th> <th>EC No.</th> <th>CAS No.</th> <th>EC Classification and Risk Phrases</th> </tr> </thead> <tbody> <tr> <td>Glycerol</td> <td>60</td> <td>200-289-5</td> <td>56-81-5</td> <td>-</td> </tr> </tbody> </table> | Hazardous ingredient(s) | %W/W | EC No. | CAS No. | Classification code: Hazard statement(s) | Glycerol | 60 | 200-289-5 | 56-81-5 | - | Hazardous ingredient(s) | %W/W | EC No. | CAS No. | EC Classification and Risk Phrases | Glycerol | 60 | 200-289-5 | 56-81-5 | - |
|-------------------------|-------------------------------|--|-------------------------|--|--------|---------|--|----------|----|-----------|---------|---|-------------------------|------|--------|---------|------------------------------------|----------|----|-----------|---------|---|
| Hazardous ingredient(s) | %W/W | EC No. | CAS No. | Classification code: Hazard statement(s) | | | | | | | | | | | | | | | | | | |
| Glycerol | 60 | 200-289-5 | 56-81-5 | - | | | | | | | | | | | | | | | | | | |
| Hazardous ingredient(s) | %W/W | EC No. | CAS No. | EC Classification and Risk Phrases | | | | | | | | | | | | | | | | | | |
| Glycerol | 60 | 200-289-5 | 56-81-5 | - | | | | | | | | | | | | | | | | | | |
| 3.2 | Additional Information | <p>See Section 8: Occupational Exposure Limits</p> <p>The constructs used in production do not have the necessary elements required for mammalian cell expression, nor do they have any recognised method of being transferred to and expressed within a mammalian cell from its current host.</p> <p>Expressed proteins are too large to be absorbed through the gut wall intact and are too large to passively diffuse through cell membranes.</p> <p>The organisms used in production are not associated with any environmentally damaging effects. The overall risk of causing harm to the environment is effectively zero.</p> <p>The risk to human health and environmental safety with respect to the above materials is extremely small.</p> | | | | | | | | | | | | | | | | | | | | |



SECTION 4: FIRST AID MEASURES

| | | |
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| 4.1 | Description of first aid measures | |
| | Inhalation | Supply fresh air; consult doctor in case of complaint. |
| | Skin contact | Wash skin with soap and water. Remove contaminated clothing and wash clothing before reuse. |
| | Eye contact | Rinse cautiously with water for several minutes. Consult a doctor in case of complaint. |
| | Ingestion | Wash out mouth with water. Consult a doctor in case of complaint. |
| 4.2 | Most Important Symptoms and Effects, Both Acute and Delayed | None anticipated |
| 4.3 | Indication of the Immediate Medical Attention and Special Treatment Needed | None known |

SECTION 5: FIRE-FIGHTING MEASURES

| | | |
|-----|--|--|
| 5.1 | Extinguishing Media | |
| | Suitable extinguishing media | CO ₂ , powder or water spray. Fight larger fires with water spray or alcohol resistant foam. |
| 5.2 | Special Hazards Arising from the Substance or Mixture | In case of fire, the following can be released: Carbon oxides (CO _x), nitrogen oxides (NO _x), sulphur oxides (SO _x). |
| 5.3 | Advice for Firefighters | Use fire-extinguishing methods suitable to surrounding conditions. Wear full protective suit and self-contained breathing apparatus (SCBA) when extinguishing fires. |

SECTION 6: ACCIDENTAL RELEASE MEASURES

| | | |
|-----|--|---|
| 6.1 | Personal Precautions, Protective Equipment and Emergency Procedures | Refer to Section 8 for protective measures when handling the spillage. |
| 6.2 | Environmental Precautions | No special requirements |
| 6.3 | Methods and Materials for Containment and Cleaning Up | Absorb with liquid-binding material (paper towelling, sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to Section 13. Rinse off area with water. |
| 6.4 | Reference to Other Sections | 8, 13 |

SECTION 7: HANDLING AND STORAGE

| | | |
|-----|--|--|
| 7.1 | Precautions for Safe Handling | <ul style="list-style-type: none"> ▪ Avoid contact with the eyes, skin and mucous membranes ▪ Keep out of reach of children ▪ Wash hands before breaks and after work |
| 7.2 | Conditions for Safe Storage, Including any Incompatibilities | Store in the original container at -20°C. |
| 7.3 | Specific End Use(s) | Use as per instructions for use. For professional use only. |

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

| | | | |
|-------|------------------------------------|--|------------------------------------|
| 8.1 | Control Parameters | | |
| 8.1.1 | Occupational Exposure Limits | | |
| | Substance | CAS No. | Source |
| | Glycerol (mist) | 56-81-5 | UK WEL / Irl OELV |
| | | | LTEL (8 hr TWA mg/m ³) |
| | | | 10 |
| 8.2 | Exposure Controls | | |
| 8.2.1 | Appropriate Engineering Controls | Not relevant for this material | |
| 8.2.2 | Personal Protection Equipment | | |
| | Eye/Face protection | Safety glasses recommended (EN166) | |
| | Hand protection | Disposable gloves (EN374) | |
| | Material of glove | Latex / natural rubber, Nitrile rubber | |
| | Penetration time of glove material | Gloves resistance is not critical when the product is handled according to the instructions for use. | |
| | Body protection | Laboratory coat | |
| | Respiratory protection | Not normally required | |
| 8.2.3 | Environmental Exposure Controls | No special measures are required | |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|------------|--|---|
| 9.1 | Information on Basic Physical and Chemical Properties | |
| | Appearance | Pair of clear glass slides immersed in a clear liquid |
| | Colour | Colourless |
| | Odour | Pungent |
| | Odour threshold (ppm) | Not determined |
| | pH (Value) | 7.6 |
| | Melting point (°C)/Freezing point (°C) | Not determined |
| | Boiling point/boiling range (°C) | Not determined |
| | Flash point (°C) | Not determined |
| | Evaporation rate (BA = 1) | Not determined |
| | Flammability (solid, gas) | Not applicable |
| | Explosive limit ranges | Not applicable |
| | Vapour Pressure (mm Hg) | Not determined |
| | Vapour Density (Air=1) | Not determined |
| | Density (g/ml) | Not determined |
| | Solubility (Water) | Soluble |
| | Solubility (Other) | Not determined |
| | Partition Coefficient (n-Octanol/water) | Not determined |
| | Auto Ignition Temperature (°C) | Not determined |
| | Decomposition Temperature (°C) | Not determined |
| | Viscosity (mPa.s) | Not determined |
| | Explosive properties | Not explosive |
| | Oxidising properties | Not oxidising |
| 9.2 | Other information | Not available |

SECTION 10: STABILITY AND REACTIVITY

| | | |
|-------------|---|--|
| 10.1 | Reactivity | None known |
| 10.2 | Chemical Stability | The product is stable in accordance with the recommended storage conditions. |
| 10.3 | Possibility of Hazardous Reactions | None known. Hazardous polymerisation will not occur. |
| 10.4 | Conditions to Avoid | None |
| 10.5 | Incompatible Materials | None known |
| 10.6 | Hazardous Decomposition Product(s) | None known |

SECTION 11: TOXICOLOGICAL INFORMATION

| | | |
|---------------|---|---|
| 11.1 | Information on Toxicological Effects | |
| 11.1.2 | Mixtures | |
| | Acute toxicity | Based upon the available data, the classification criteria are not met. |
| | Irritation | Based upon the available data, the classification criteria are not met. |
| | Corrosivity | Based upon the available data, the classification criteria are not met. |
| | Sensitisation | Based upon the available data, the classification criteria are not met. |
| | Repeated dose toxicity | Based upon the available data, the classification criteria are not met. |
| | Carcinogenicity | Based upon the available data, the classification criteria are not met. |
| | Mutagenicity | Based upon the available data, the classification criteria are not met. |
| | Toxicity for reproduction | Based upon the available data, the classification criteria are not met. |
| | STOT-single exposure | Based upon the available data, the classification criteria are not met. |
| | STOT-repeated exposure | Based upon the available data, the classification criteria are not met. |
| | Aspiration hazard | Based upon the available data, the classification criteria are not met. |
| 11.2 | Other Information | Not applicable |

SECTION 12: ECOLOGICAL INFORMATION

| | | |
|-------------|---|--|
| 12.1 | Toxicity | The product does not contain significant quantities of ingredients that are environmentally toxic. |
| 12.2 | Persistence and Degradability | The organic components are substantially biodegradable. |
| 12.3 | Bioaccumulative Potential | None anticipated |
| 12.4 | Mobility in Soil | The product is predicted to have high mobility in soil |
| 12.5 | Results of PBT and vPvB Assessment | Not applicable |
| 12.6 | Other Adverse Effects | Not applicable |

SECTION 13: DISPOSAL CONSIDERATIONS

| | | |
|------|----------------------------------|--|
| 13.1 | Waste Treatment Methods | Chemical residues and remains should be routinely handled as special waste. Used arrays should be treated as potentially infectious material. This must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information. |
| | Product: | |
| | European waste catalogue: | |
| | Packaging: | <ul style="list-style-type: none"> ▪ Disposal should be in accordance with local, state or national legislation ▪ Contaminated packaging must be disposed of in the same manner as the product ▪ Non-contaminated packaging materials may be recycled ▪ Contact your local service providers for further information |

SECTION 14: TRANSPORT INFORMATION

| | | |
|------|---|---|
| 14.1 | UN Number | Not applicable |
| 14.2 | UN Proper Shipping Name | Not applicable |
| 14.3 | Transport Hazard Class(es) | Not classified as dangerous for transport |
| 14.4 | Packing Group | Not applicable |
| 14.5 | Environmental Hazards | Not applicable |
| 14.6 | Special Precautions for User | Not applicable |
| 14.7 | Transport in Bulk According to Annex II of MARPOL73/78 and the IBC Code | Not applicable |

SECTION 15: REGULATORY INFORMATION

| | | |
|--|---|--|
| 15.1 | Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture | Regulation (EC) No. 1907/2006 (REACH), Annex II OSHA Hazard Communication Standard 29 CFR 1910.1200 |
| | Carcinogen listings | |
| | IARC | None of the ingredients is listed |
| | NTP | None of the ingredients is listed |
| | ACGIH | None of the ingredients is listed |
| | OSHA | None of the ingredients is listed |
| | EPA | None of the ingredients is listed |
| Californian Proposition 65 | | |
| Chemicals known to cause cancer | None of the ingredients is listed | |
| Chemicals known to cause reproductive toxicity | None of the ingredients is listed | |
| SARA | | |
| Section 355 (extremely hazardous substances) | None of the ingredients is listed | |
| Section 313 (specific toxic chemical listings) | None of the ingredients is listed | |
| 15.2 | Chemical Safety Assessment | Not applicable |

SECTION 16: OTHER INFORMATION**LEGEND**

| | |
|-------------------|---------------------------------|
| STOT | Specific Target Organ Toxicity |
| References | Raw material safety data sheets |

| Document Revision History | | |
|--|---------------------------------|-------------------------------|
| Rev. | Effective Date | Description of Changes |
| 1 | 10 th September 2021 | New Issue |
| This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 (REACH), Annex II | | |
| Prepared by: | Sengenics | Email: support @sengenics.com |
| <p>To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.</p> | | |