

# SAFETY DATA SHEET

## MG01 – MemGlow 488 Fluorescent Membrane Probe

Revision: 18 September 2026 | Version 4.0 | Supersedes MSDS dated 20 April 2018

### 1. Identification of the substance/mixture and of the company/undertaking

|                                     |                                                                                                                                                                                       |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1.1 Product identifier</b>       | MG01, MemGlow 488 Fluorescent Membrane Probe. No UFI assigned/required.                                                                                                               |
| <b>1.2 Relevant identified uses</b> | Laboratory chemical; fluorescent membrane probe. For research use only. Uses advised against: human or veterinary diagnostic, therapeutic, food, household or other non-research use. |
| <b>1.3 Manufacturer</b>             | Cytoskeleton, Inc., 1830 S. Acoma St., Denver, CO 80223, USA; Tel. +1 303-322-2254.                                                                                                   |
| <b>EU/German supplier</b>           | Tebu-bio GmbH <a href="mailto:germany@tebubio.com">germany@tebubio.com</a> , (069) 801013-0                                                                                           |
| <b>1.4 Emergency telephone</b>      | INFOTRAC (source MSDS): USA/Canada 1-800-535-5053; outside USA/Canada +1 352-323-3500 (collect calls accepted).                                                                       |

### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

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

|                           |                                                                                                        |
|---------------------------|--------------------------------------------------------------------------------------------------------|
| <b>2.2 Label elements</b> | The product does not need to be labelled in accordance with EC directives or respective national laws. |
| <b>2.3 Other hazards</b>  | None.                                                                                                  |

### 3. Composition/information on ingredients

#### 3.1. Substance.

| Product Name       | CAS  | Formula                                                                                                                  | Molecular Weight | Other |
|--------------------|------|--------------------------------------------------------------------------------------------------------------------------|------------------|-------|
| MemGlow 488 (MG01) | None | C <sub>61</sub> H <sub>106</sub> BF <sub>2</sub> N <sub>11</sub> O <sub>7</sub> S <sub>2</sub> Na<br>[M+Na] <sup>+</sup> | 1240.7677        | None  |

### 4. First-aid measures

|                             |                                                                                                                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>4.1 Inhalation</b>       | Move to fresh air. If breathing is difficult or symptoms persist, seek medical advice. If not breathing, provide resuscitation by trained personnel and call emergency services. |
| <b>Skin contact</b>         | Remove contaminated clothing. Wash skin thoroughly with soap and water. Seek medical advice if irritation persists.                                                              |
| <b>Eye contact</b>          | Rinse cautiously with water for at least 15 minutes, removing contact lenses if easy. Seek medical advice if irritation persists.                                                |
| <b>Ingestion</b>            | Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical advice if unwell. Never give anything by mouth to an unconscious person.                  |
| <b>4.2 Symptoms/effects</b> | To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.                                                         |
| <b>4.3 Immediate care</b>   | If unconscious, call emergency services. Show this safety data sheet to the first responding physician.                                                                          |

### 5. Firefighting measures

|                                    |                                                                                                                                                       |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>5.1 Extinguishing media</b>     | Use water spray, alcohol-resistant foam, dry powder or carbon dioxide as appropriate for the surrounding fire. No unsuitable media identified.        |
| <b>5.2 Special hazards</b>         | No information available.                                                                                                                             |
| <b>5.3 Advice for firefighters</b> | Wear self-contained breathing apparatus and full protective clothing. Prevent contaminated fire-fighting water from entering drains or surface water. |

## 6. Accidental release measures

|                                      |                                                                                                                                                                                                                                |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>6.1 Personal precautions</b>      | Restrict access. Ventilate. Avoid breathing dust and avoid contact with skin and eyes. Wear protective gloves, clothing and eye/face protection. For significant dust, use suitable respiratory protection.                    |
| <b>6.2 Environmental precautions</b> | Prevent release to drains, surface water, groundwater and soil. Do not flush concentrated material to sewer.                                                                                                                   |
| <b>6.3 Cleanup</b>                   | For dry product, carefully sweep or vacuum with a HEPA-filtered unit without generating dust; place in a labelled closed container. For wetted material, absorb with inert material. Clean residue with water where permitted. |
| <b>6.4 Reference</b>                 | See Sections 8 and 13.                                                                                                                                                                                                         |

## 7. Handling and storage

|                             |                                                                                                                                                                                        |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>7.1 Safe handling</b>    | Avoid dust and aerosols. Avoid contact with skin and eyes. Provide adequate ventilation. Do not eat, drink or smoke during use. Wash hands after handling. Do not reuse the container. |
| <b>7.2 Storage</b>          | Store tightly closed, dry/desiccated at 2-8 °C. Protect from contamination. Keep only in a suitably labelled container. Incompatible with strong oxidising agents.                     |
| <b>7.3 Specific end use</b> | This product should only be used for applications described in Section 1.2.                                                                                                            |

## 8. Exposure controls/personal protection

|                                 |                                                                                                                                                                                                                                 |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>8.1 Control parameters</b>   | No occupational exposure limit values exist.                                                                                                                                                                                    |
| <b>8.2 Engineering controls</b> | Use local exhaust or enclosure where dust may be generated. Provide eyewash access.                                                                                                                                             |
| <b>Eye/face protection</b>      | Safety glasses with side shields; tightly fitting goggles where dust exposure is possible (EN 166 or equivalent).                                                                                                               |
| <b>Hand protection</b>          | Chemical-resistant gloves. The source suggests neoprene for contact up to 15 minutes, but provides no validated breakthrough time. Select gloves using supplier permeation and degradation data; verify suitability before use. |
| <b>Skin/body protection</b>     | Laboratory coat or protective work clothing. Remove contaminated clothing and wash before reuse.                                                                                                                                |
| <b>Respiratory protection</b>   | Normally not required with effective controls. If dust cannot be controlled, use a suitable particulate respirator selected under the workplace assessment (e.g. EN 149 P1/P2 as appropriate).                                  |
| <b>Environmental controls</b>   | Avoid release to drains and the environment.                                                                                                                                                                                    |

## 9. Physical and chemical properties

|                                  |                                           |
|----------------------------------|-------------------------------------------|
| <b>9.1 Physical state</b>        | Solid, lyophilised powder                 |
| <b>Colour</b>                    | Not available                             |
| <b>Odour / odour threshold</b>   | None                                      |
| <b>Melting/freezing point</b>    | No data available                         |
| <b>Boiling point/range</b>       | Not applicable to solid / no data         |
| <b>Flammability</b>              | Reported not flammable or combustible     |
| <b>Explosive limits</b>          | No data available                         |
| <b>Flash point</b>               | Not applicable / no data                  |
| <b>Auto-ignition temperature</b> | No data available                         |
| <b>Decomposition temperature</b> | No data available                         |
| <b>pH</b>                        | No data available                         |
| <b>Kinematic viscosity</b>       | Not applicable to solid                   |
| <b>Solubility</b>                | Fully miscible/soluble in DMSO per source |
| <b>Partition coefficient</b>     | No data available                         |

|                                  |                                                                                  |
|----------------------------------|----------------------------------------------------------------------------------|
| <b>Vapour pressure / density</b> | Not applicable or no data                                                        |
| <b>Relative density</b>          | No data available                                                                |
| <b>Particle characteristics</b>  | No data available; lyophilised powder                                            |
| <b>9.2 Other information</b>     | No additional physical hazard or other safety-characteristic data are available. |

## 10. Stability and reactivity

|                                    |                                                                                     |
|------------------------------------|-------------------------------------------------------------------------------------|
| <b>10.1 Reactivity</b>             | None under normal conditions.                                                       |
| <b>10.2 Chemical stability</b>     | Stable when stored as recommended.                                                  |
| <b>10.3 Hazardous reactions</b>    | No dangerous reactions known.                                                       |
| <b>10.4 Conditions to avoid</b>    | Heat, moisture and conditions that generate dust; other conditions not established. |
| <b>10.5 Incompatible materials</b> | Strong oxidizing agents and strong acids.                                           |
| <b>10.6 Decomposition products</b> | Not determined. Irritating or harmful fumes may form in a fire.                     |

## 11. Toxicological information

|                                          |                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>11.1 Acute toxicity</b>               | No data available.                                                                                                                                                                                                                                                                                                                                                         |
| <b>Skin corrosion/irritation</b>         | No data available.                                                                                                                                                                                                                                                                                                                                                         |
| <b>Serious eye damage/irritation</b>     | No data available.                                                                                                                                                                                                                                                                                                                                                         |
| <b>Respiratory/skin sensitisation</b>    | No data available.                                                                                                                                                                                                                                                                                                                                                         |
| <b>Mutagenicity</b>                      | No data available.                                                                                                                                                                                                                                                                                                                                                         |
| <b>Carcinogenicity</b>                   | No data available.                                                                                                                                                                                                                                                                                                                                                         |
| <b>Reproductive toxicity</b>             | No data available.                                                                                                                                                                                                                                                                                                                                                         |
| <b>STOT single/repeated exposure</b>     | No data available.                                                                                                                                                                                                                                                                                                                                                         |
| <b>Aspiration hazard</b>                 | No data available.                                                                                                                                                                                                                                                                                                                                                         |
| <b>Likely routes/symptoms</b>            | No data available.<br><br>Symptoms / Routes of exposure<br>Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.<br>Ingestion: There may be irritation of the throat.<br>Skin: There may be mild irritation at the site of contact.<br>Eyes: There may be irritation and redness.<br>Delayed / Immediate Effects: No known symptoms. |
| <b>11.2 Information on other hazards</b> |                                                                                                                                                                                                                                                                                                                                                                            |

## 12. Ecological information

|                                       |                                                              |
|---------------------------------------|--------------------------------------------------------------|
| <b>12.1 Toxicity</b>                  | No data available.                                           |
| <b>12.2 Persistence/degradability</b> | No data available.                                           |
| <b>12.3 Bioaccumulative potential</b> | No data available.                                           |
| <b>12.4 Mobility in soil</b>          | No data available.                                           |
| <b>12.5 PBT/vPvB assessment</b>       | No data available.                                           |
| <b>12.6 Endocrine disruption</b>      | No data available.                                           |
| <b>12.7 Other adverse effects</b>     | No data available. Avoid uncontrolled environmental release. |

### 13. Disposal considerations

Dispose of product, solutions, absorbents and contaminated packaging through an authorised waste contractor in accordance with Directive 2008/98/EC, the German Circular Economy Act (KrWG), the Waste Catalogue Ordinance (AVV) and local requirements. Do not discharge to drains. The waste producer must assign the appropriate waste code based on actual use and contamination. Treat contaminated packaging as unused product unless fully decontaminated.

### 14. Transport information

|                                        |                                                                             |
|----------------------------------------|-----------------------------------------------------------------------------|
| <b>14.1 UN number</b>                  | Does not meet the criteria for classification as hazardous for transport.   |
| <b>14.2 UN proper shipping name</b>    | Does not meet the criteria for classification as hazardous for transport.   |
| <b>14.3 Transport hazard class(es)</b> | Does not meet the criteria for classification as hazardous for transport.   |
| <b>14.4 Packing group</b>              | Does not meet the criteria for classification as hazardous for transport.   |
| <b>14.5 Environmental hazards</b>      | Not identified as marine pollutant/environmentally hazardous for transport. |
| <b>14.6 Special precautions</b>        | Protect from moisture and physical damage..                                 |
| <b>14.7 Maritime transport in bulk</b> | Not classified.                                                             |

### 15. Regulatory information

|                                        |                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>15.1 Regulations</b>                | Prepared in the 16-section format of REACH Regulation (EC) No 1907/2006, Annex II, as amended by Commission Regulation (EU) 2020/878, and classified provisionally under CLP Regulation (EC) No 1272/2008. German national considerations include the Hazardous Substances Ordinance (GefStoffV) and TRGS 220.<br><br>Not Classified. |
| <b>15.2 Chemical safety assessment</b> | No chemical safety assessment information was provided.                                                                                                                                                                                                                                                                               |

### 16. Other information

Revision scope: converted the 2018 MSDS into the REACH Annex II / Regulation (EU) 2020/878 subsection structure; removed US-only rating content from the main hazard presentation; added Germany/EU regulatory fields. No new toxicological or ecotoxicological test data were supplied.

Abbreviations: ADR, European road transport agreement; CLP, Classification Labelling and Packaging Regulation; DNEL, derived no-effect level; IATA, International Air Transport Association; IMDG, International Maritime Dangerous Goods Code; PBT, persistent bioaccumulative and toxic; PNEC, predicted no-effect concentration; STOT SE, specific target organ toxicity single exposure; UFI, unique formula identifier; vPvB, very persistent and very bioaccumulative.

Sources: Cytoskeleton MG01 MSDS, revised 20 April 2018; Cytoskeleton MG01 product page; Regulation (EC) No 1907/2006 (REACH), Article 31 and Annex II; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 (CLP); German Hazardous Substances Ordinance (GefStoffV), section 5.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. The above information is believed to be correct, be all inclusive and shall be used only as a guide. Cytoskeleton Inc. shall not be held liable for any damages resulting from contact with the above product.