

SAFETY DATA SHEET

MG03 – MemGlow 590 Fluorescent Membrane Probe

Revision: 18 September 2026 | Version 2.0 | Supersedes MSDS dated 20 April 2018

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

1.1 Product identifier	MG03, MemGlow 590 Fluorescent Membrane Probe. No UFI assigned/required.
1.2 Relevant identified uses	Laboratory chemical; fluorescent membrane probe. For research use only. Uses advised against: human or veterinary diagnostic, therapeutic, food, household or other non-research use.
1.3 Manufacturer	Cytoskeleton, Inc., 1830 S. Acoma St., Denver, CO 80223, USA; Tel. +1 303-322-2254.
EU/German supplier	Tebu-bio GmbH germany@tebubio.com , (069) 801013-0
1.4 Emergency telephone	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.

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

3. Composition/information on ingredients

3.1. Substance.

Product Name	CAS	Formula	Molecular Weight	Other
MemGlow 590 (MG03)	None	C79H121N10O6S2+ [M] ⁺	1369.8893	None

4. First-aid measures

4.1 Inhalation	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.
Skin contact	Remove contaminated clothing. Wash skin thoroughly with soap and water. Seek medical advice if irritation persists.
Eye contact	Rinse cautiously with water for at least 15 minutes, removing contact lenses if easy. Seek medical advice if irritation persists.
Ingestion	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.
4.2 Symptoms/effects	To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.
4.3 Immediate care	If unconscious, call emergency services. Show this safety data sheet to the first responding physician.

5. Firefighting measures

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

6. Accidental release measures

6.1 Personal precautions	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.
6.2 Environmental precautions	Prevent release to drains, surface water, groundwater and soil. Do not flush concentrated material to sewer.
6.3 Cleanup	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.
6.4 Reference	See Sections 8 and 13.

7. Handling and storage

7.1 Safe handling	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.
7.2 Storage	Store tightly closed, dry/desiccated at 2-8 °C. Protect from contamination. Keep only in a suitably labelled container. Incompatible with strong oxidising agents.
7.3 Specific end use	This product should only be used for applications described in Section 1.2.

8. Exposure controls/personal protection

8.1 Control parameters	No occupational exposure limit values exist.
8.2 Engineering controls	Use local exhaust or enclosure where dust may be generated. Provide eyewash access.
Eye/face protection	Safety glasses with side shields; tightly fitting goggles where dust exposure is possible (EN 166 or equivalent).
Hand protection	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.
Skin/body protection	Laboratory coat or protective work clothing. Remove contaminated clothing and wash before reuse.
Respiratory protection	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).
Environmental controls	Avoid release to drains and the environment.

9. Physical and chemical properties

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

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

10. Stability and reactivity

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

11. Toxicological information

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

12. Ecological information

12.1 Toxicity	No data available.
12.2 Persistence/degradability	No data available.
12.3 Bioaccumulative potential	No data available.
12.4 Mobility in soil	No data available.
12.5 PBT/vPvB assessment	No data available.
12.6 Endocrine disruption	No data available.
12.7 Other adverse effects	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

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

15. Regulatory information

15.1 Regulations	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. Not Classified.
15.2 Chemical safety assessment	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 MG03 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.