

According to COMMISSION REGULATION (EU) 1907/2006 (REACH) of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals

PRO-LINER 3-Color Protein Marker- Broad range

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier:

- **Product name:** PRO-LINER 3-Color Protein Marker- Broad range
- **Product code:** MWM114
- **Brand:** Cyanagen Srl
- **CAS#:**

1.2. Relevant identified uses of the substance or mixture and uses advised against:

- **Identified uses:** Laboratory chemicals, manufactures of substances.

1.3. Details of the supplier of the safety data sheet:

- **Company:** Cyanagen Srl
- **Telephone/fax:** +39 051-534063
- **E-mail address:** technical.support@cyanagen.com

1.4. Emergency telephone number:

- **Emergency phone:** +39 051 534063

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture:

- This substance is not classified as dangerous according to Regulation (EC) No 1272/2008 [EU-GHS/CLP].

2.2. Label elements:

- The product does not need to be labeled in accordance with to Regulation (EC) No 1272/2008 [EU-GHS/CLP].

2.3. Other hazards:

- None.

SECTION 3: Composition/information on ingredients

3.1. Substances:

- **Synonyms:** /
- **Formula:** /
- **Molecular weight:** /

3.2. Mixtures:

Component:	Concentration:
CAS#:	EC-No#:
Glycerol, 56-81-5	10-25%, EC-No#: 200-289-5
Sodium dodecyl sulfate, 151-21-3	1-3%, EC-No#: 205-788-1

Model approved by: DP, RSQ and DS

Cyanagen S.r.l. Via Stradelli Guelfi 40/C 40138 Bologna Italy

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Urea, 57-13-6	>25%, EC-No#: 200-315-5
Tris-phosphate, 6992-39-8	1-2%, EC-No#: 230-260-2

Sodium dodecyl sulfat:

Acute Tox. 3, H311

Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319

SECTION 4: First aid measures

4.1. Description of first aid measures:

- **Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.
- **Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
- **Skin:** Wash with soap and water. Get medical attention if irritation develops.
- **Eyes:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

4.2. Most important symptoms and effects, both acute and delayed:

- No data available.

4.3. Indication of any immediate medical attention and special treatment needed:

- No data available.

SECTION 5: Firefighting measures

5.1. Extinguishing media:

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

5.2. Special hazards arising from the substance or mixture:

- Not known.

5.3. Advice for firefighters:

- Wear self contained breathing apparatus for firefighting if necessary.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures:

- Avoid dust formation. Avoid bathing vapors, mist or gas.

6.2. Environmental precautions:

- No special environmental precaution required.

6.3. Methods and material for containment and cleaning up:

- Use appropriate protective equipment and methods to clean up spilled substances promptly. Absorb spill onto an appropriate material. Collect and dispose of all waste in accordance with applicable laws.

6.4. Reference to other sections:

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- For disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling:

- Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
- Provide appropriate exhaust ventilation at places where dust is formed.

7.2. Conditions for safe storage, including any incompatibilities:

- *Keep refrigerated at -20°C.*

7.3. Specific end use(s):

- Refer to the Instructions for proper and intended use. Otherwise, contact supplier for specific applications.

SECTION 8: Exposure controls/personal protection

. Control parameters:

Chemical name	CAS No.	Exposure limits
• Glycerol	56-81-5	TWA : 10 mg/m ³
• Sodium dodecyl sulfate	151-21-3	No data available
• Urea	57-13-6	No data available
• Tris-phosphate	6992-39-8	No data available

8.2. Exposure controls:

- **Engineering controls:** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below exposure limits.
- **Personal protection:** Wear appropriate gloves, lab coat, dust respirator, safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
- **Personal protection in case of a large spill:** Splash goggles, full suit, dust respirator, glove, a self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient, consult a specialist BEFORE handling this product.
- **Exposure limit:** No data available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties:

- **Physical state and appearance:** Liquid.
- **Odor:** Odorless.
- **Color:** Blu
- **pH (1% soln/water):** 7.5 [Conc. (% w/w): 100%.
- **Boiling point:** 100°C.
- **Melting point:** No data available.
- **Volatility:** No data available.

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- **Flammability:** No data available.
- **Explosive properties:** No data available.
- **Viscosity:** No data available.
- **Density:** ~1 g/cm³.
- **Solubility:** Water.

9.2. Other information:

- No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity:

- No data available.

10.2. Chemical stability:

- Stable under normal temperatures and pressures.

10.3. Possibility of hazardous reactions:

- No data available.

10.4. Conditions to avoid:

- Light.

10.5. Incompatible materials:

- Avoid strong oxidants.

10.6. Hazardous decomposition products:

- No dangerous decomposition products identified.

SECTION 11: Toxicological information

11.1. Information on toxicological effects:

- **Acute toxicity:**

<u>Chemical name</u>	<u>LD50 Oral</u>	<u>LD50 Dermal</u>	<u>LD50 Inhalation</u>
Glycerol	12600 mg/kg(Rat)	21900 mg/kg(Rat)	
Sodium dodecyl sulfate	1288 mg/kg(Rat)	580 mg/kg(Rat)	3900 mg/m ³ (Rat)1h

- **Irritation and corrosion:** No data available.
- **Sensitisation:** Aerosols may cause allergic type reactions in sensitized individuals
- **Chronic exposure:** No data available
- **Potential Health Effects:**
 - **Inhalation:** Aerosols may cause allergic type reactions in sensitized individuals
 - **Skin/Eyese:** Generally, the product does not irritate the skin and eyes. Prolonged skin or eye contact may cause minor irritation

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- **Ingestion:** Repeated ingestion or excessive dosage may cause irritation of the gastrointestinal tract

SECTION 12: Ecological information

12.1. Toxicity:

- The preparation is considered not dangerous to the environment with respect to mobility, persistence and degradability, bioaccumulation, aquatic toxicity and other data relating to ecotoxicity

12.2. Persistence and degradability:

- The preparation is readily biodegradable

12.3. Bioaccumulative potential:

- It is considered that the preparation does not accumulate in biota, and does not pass through the food chain.

12.4. Mobility in soil:

- No data available.

12.5. Results of PBT and vPvB assessment:

- No data available.

12.6. Other adverse effects:

- No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods:

- Dispose of in accordance with local regulation.

SECTION 14: Transport information

14.1. UN number:

ADR/RID:	IMDG:	IATA:
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14.2. UN proper shipping name:

ADR/RID: Not dangerous goods	IMDG: Not dangerous goods	IATA: Not dangerous goods
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14.3. Transport hazard class(es):

ADR/RID:	IMDG:	IATA:
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14.4. Packing group:

ADR/RID:	IMDG:	IATA:
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14.5. Environmental hazards:

ADR/RID:	IMDG Marine pollutant:	IATA:
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14.6. Special precautions for user:

- No data available.

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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:

- This product is classified as non-hazardous according to EU Directive 67/548/CE.

15.2. Chemical safety assessment:

- No data available.

SECTION 16: Other information

- **Further information:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Cyanagen Srl shall not be held liable for any damage resulting from handling or from contact with the above product. See invoice or packing slip for additional terms and conditions of sale.

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