

# **Blu12 Prestained Protein Ladder**

### Identification of the product / Substance and of the company

Product Name: Blu12 Prestained Protein Ladder

Catalog Number: PMB12-0500

Use of the product: For laboratory use.

Suitable for use as molecular weight standards for SDS-PAGE.

Company identification: BIO-HELIX Co., LTD.

Site: http://www.bio-helix.com E-mail: info@bio-helix.com

Composition / Information on ingredients			
Ingredients :			
Water	> 50 % (v/v)	EC#231-791-2	CAS#7732-18-5
Glycerol	10-25 % (v/v)	EC#200-289-5	CAS#56-81-5
Sodium Dodecyl Sulfate	1-3 %	EC#205-788-1	CAS#151-21-3
Urea	<25 %	EC#200-315-5	CAS#57-13-6
Tris- Phosphate	1-2 %	EC#230-260-2	CAS#6992-39-8
Dithiothreitol	3%~16%	EC #222-468-7	CAS# 3483-12-3

#### Other components:

Components not listed here are not dangerous or their concentrations do not exceed the limits specified in the EU directive 1999/45/EC.

Additional information: For the wording of the listed risk phrases refer to section 16.

## Hazards identification

The product is not classified as dangerous according to Directive 1999/45/EC or Directive 67/548/EC, and is not labelled with danger symbols or indications of danger.

Hazards deriving from physical-chemical properties:

The data available do not support any physical or chemical hazard.

Human health hazards:

Inappropriate handling may cause formation of aerosols. Inhalation of aerosols may cause allergic type reactions in sensitized individuals. Prolonged skin contact may cause minor irritation.

Caution: Avoid inhalation, ingestion, and skin contacts.

Environmental hazards:





#### **First Aid Measures**

The data available do not support any environmental hazard.

Ingestion:

If swallowed, rinse mouth and throat thoroughly with water. Consult a doctor in event of any complaints.

Inhalation: If inhaled, remove victim from area of exposure. If symptoms of irritation or respiratory allergy occur, consult a doctor.

Skin contact:

If symptoms of irritation after prolonged exposure occur, consult a doctor.

Eye contact:

In case of contact, wash out opened eyes with plenty of water for several minutes. Consult a doctor in event of any complaints.

### Fire-fighting measures

The product cannot cause fire.

Suitable extinguishing agents:

Water spray, Carbon Dioxide, dry chemical powder or appropriate foam.

Not suitable extinguishing agents: None.

Special exposure hazards from decomposition products: Not thoroughly investigated. Protective equipment: Wear self-contained breathing apparatus and protective clothing.

#### Accidental release measures

Personal precautions:

Wear appropriate gloves (see Section 8), safety glasses to clean small releases/spillage. In case of vapor/aerosol formation, wear suitable respiratory protection means. Ventilate the area.

Environmental precautions: No special measures required.

Methods for cleaning up:

Absorb spillages with liquid-binding material. Ventilate and wash the area after the spillage is completely removed.

Additional information: No dangerous substances are released.

#### Handling and storage

Handling: No further requirements.

Use appropriate personal protection measures (see Section 8). Avoid any contact with the liquid. Avoid the formation of aerosols. Ventilate area.

Storage: Store at - 20°C.

None other specific requirements relating to the product.





#### Exposure controls / personal protection

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that need to be monitored at the workplace.

General protective and hygienic measures:

The usual precautionary measures are the same as for chemicals handling.

Engineering measures:

None specific requirements relating to the product.

Personal protection:

- Respiratory protection: No special measures required.
- Hand protection: Wear rubber gloves. None special requirements to rubber.
- Eye protection: No need to wear glasses (goggles) when ordinary operations with the product. Safety glasses are recommended during certain operations when aerosol formation is possible.
- Skin protection: The usual precautionary measures accepted in research laboratories, e.g. protective clothes (gowns). None specific requirements.

### Physical and chemical properties

Appearance : Liquid.

Color: Blue

Odor: Odorless or weak pH-value at 25°C: ~7.5.

Boiling point :  $\sim 100$  °C.

Flash Point: Not applicable.

Flammability / autoflammability: The product is not flammable/self-igniting. Explosive

properties: The product does not possess explosive properties.

Oxidizing properties: Not applicable.

Vapor pressure: Not applicable. Relative density at 20°C: ~1 g/cm3.

Solubility in/miscibility with water: Fully miscible.

Fat solubility: Not applicable.

Vapor density: Not applicable.

Evaporation rate: Not applicable.

Conductivity: Not applicable.

# Stability and reactivity

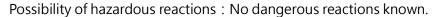
Viscosity: Not viscous.

Stability: Stable under storage conditions (see Section 7).

Conditions to avoid: No conditions which may cause dangerous reactions.



# **Material Safety Data Sheet**



Materials to avoid: Strong oxidizing agents, strong bases.

Hazardous decomposition products: No dangerous decomposition products known.

Hazardous polymerization: Will not occur.

#### Toxicological information

Routes of exposure:

Inhalation: Inhalation of aerosols may cause allergic type reactions in sensitized individuals.

Ingestion: Repeated ingestion or excessive dosage may be irritating. Skin and eye contact: :

Prolonged contact may cause irritation.

Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

#### **Ecological information**

Ecotoxicity:

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

Persistence and degradability: The product is readily biodegradable.

Bioaccumulative potential:

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

Other adverse effects: Not applicable.

#### Disposal considerations

The disposal of the product does not present a danger.

No special disposal methods required, except to be in accordance with current local environmental regulations.

#### **Transport information**

Special precautions: None known.

Proper shipping name: Not dangerous goods according to transport regulations.

Transport regulations: No additional transport regulations are known to the supplier.

IMDG: Non-hazardous for sea freight.

ADR: Non-hazardous for road transport.

RID: Non-hazardous for rail transport.

ICAO/IATA: Non-hazardous for air transport.

Other information: The product may be stored in ice during the transportation.





### Regulatory information

US

Labelling according to US Regulations: Caution: Avoid contact and inhalation.

US Regulatory information: SARA LISTED: No.

EU

Labelling according to EU Guidelines: The product is not dangerous within the meaning of Directives 67/548/EC, 1999/45/EC, and 88/379/ECC, and is not labelled with danger symbols or indications of danger. Canada

WHMIS classification: This product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains all the information required by the CPR.

DSL: No. NDSL: No.

### Other 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. Bio-Helix Co., Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.

