

Safety Data Sheet

Solution B

1. IDENTIFICATION OF THE PREPARATION/SUBSTANCE AND THE COMPANY

Product Name: Blu12 Prestained Protein Ladder - Solution B

Catatalog Number: NBP3-33173

Use of the preparation: For laborato

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Suitable for use as molecular weight standards for agarose gel electrophoresis.

Company identification: Novus Biologicals, LLC

Site: <https://www.bio-techne.com>

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2. HAZARDS IDENTIFICATION

The preparation 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: The data available do not support any environmental hazard.

3. COMPOSITION/ INFORMATION ON COMPONENTS

Ingredients :

Water	>90% (v/v)	CAS# 7732-18-5
Sodium perborate tetrahydrate	0.2-1.2% (w/v)	CAS# 10486-00-7

Other components :

Components not listed here are not hazardous or their concentrations do not exceed the limits specified in the OSHA Hazard Communication Standard 29 CFR 1910.1200.

4. FIRST-AID MEASURES

Ingestion: If swallowed, rinse mouth and throat thoroughly with water. Consult a doctor in event

of any complaints.

Inhalation: If inhaled, remove victim from the area of exposure. If symptoms of irritation or respiratory

allergy occur, consult a doctor.

Skin contact: Generally, the product does not irritate the skin. 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.

5. IN CASE OF FIRE

The preparation 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: No data available.

Protective equipment: Wear self-contained breathing apparatus and protective clothing.

6. IN CASE OF SPILLAGE

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.

7. 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 the area.

Storage: Store at – 20 °C.

No other specific requirements relating to the preparation.

8. 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: No specific requirements relating to the preparation.

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 preparation. 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid.

Color: Blue.

Odor: Odorless.

pH-value at 25 °C: 8.0.

Boiling point: 100 °C.

Flash Point: Not applicable.

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

Explosive properties: The preparation does not possess explosive properties.

Oxidizing properties: Not applicable.

Vapor pressure: Not applicable.

Relative density at 20 °C: $\sim 1 \text{ g/cm}^3$.

Solubility in/miscibility with water: Fully miscible.

Fat solubility: Not applicable.

Vapor density: Not applicable.

Evaporation rate: Not applicable.

Conductivity: Not applicable.

Viscosity: Not viscous.

10. STABILITY AND REACTIVITY

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

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

Possibility of hazardous reactions: No dangerous reactions known.

Materials to avoid: No materials which may cause dangerous reactions.

Hazardous decomposition products: No dangerous decomposition products known.

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Routes of exposure:

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

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

Skin and eye contact: Generally, the product does not irritate the skin and eyes. Prolonged skin or eye contact may cause minor irritation.

Additional toxicological information: When used and handled according to specifications, the product does not have any harmful effects.

The product is not listed in a priority list as foreseen under Council Regulation (EEC) No. 793/93 on the evaluation and control of the risks of the existing substances.

12. ECOLOGICAL INFORMATION

Ecotoxicity: 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.

Persistence and degradability: The preparation is readily biodegradable.

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

Other adverse effects: Not applicable.

13. 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.

14. TRANSPORT INFORMATION

Special precautions: None known.

Proper shipping name: Non-dangerous goods according to transport regulations.

National transport regulations:

No additional national 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 preparation may be stored in ice during the transportation.

15. REGULATORY INFORMATION

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

15.1.1. EU Regulations

- Classification and labelling acc. to Regulation (EC) No. 1272/2008 (CLP): The product is not dangerous within the meaning of Directives 67/548/EC, 1999/45/EC, 88/379/ ECC, and is not labelled with danger symbols or indication of danger.

15.1.2. National regulations (US)

- Classification and labelling: Caution: Avoid contact and inhalation. • Other
- U.K. regulations and guidance: SARA LISTED: No

15.1.3. National regulations (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.

15.2. Chemical safety assessment Chemical safety assessments (CSA) according to the Article 14 Paragraph 1 of the Regulation (EC) No 1907/2006 (REACH) are not available.

16. 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. Novus Biologicals shall not be held liable for any damage resulting from handling or from contact with the above product.