# Product name: AccuRuler 100bp Plus DNA RTU Ladder

# Catalog number: 02002-500

# **1.IDENTIFICATION OF THE SUBSTANCE**

Application of the substance For laboratory use the preparation: Suitable for use as molecular weight standards for SDS-PAGE electrophoresis

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#### **2.COMPOSITION, INFORMATION ON INGREDIENTS**

Water: >50%(vv) Glycerol: 10-25 % (v/v) EC#231-791-2 CAS#7732-18-5 EC#200-289-5 CAS#56-81-5

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.

## **3.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.

#### **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 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. FIRE FIGHTING MEASURES**

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: Not thoroughly investigated.

Protective equipment:

Wear self-contained breathing apparatus and protective clothing

# o Maestrogen

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## 6. 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.

# **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 area.

Storage:

Store at - 20°C. None 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:

None 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: Colorless. Odor: Odorless. pH-value at 25°C: 8.0. Boiling point: 100°C. Flash Point: Not applicable. Explosive properties: The preparation 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. Viscosity: Not viscous.

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# **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 sensitized 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: Not 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**

#### US:

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

US Regulatory information: SARA LISTED: No.

#### EU:

Labelling according to EU Guidelines: The preparation 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 MSDS contains all the information required by the CPR. DSL: No.

NDSL: NO.

# **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. MaestroGen shall not be held liable for any damage resulting from handling or from contact with the above product.

# **MAESTRO**GEN

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