

Product name: AccuRuler 100bp DNA RTU Ladder

Data updated: 01/13/2022

Catalog number : 02001-500
 MaestroGen Inc.
 3F, No.18, Ln. 568, Niupu E. Rd.,
 Xiangshan Dist., Hsinchu 30091, Taiwan
 +886-3-5308665
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

Manufacturer/Supplier: MaestroGen ,Inc.,
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2. COMPOSITION, INFORMATION ON 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

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

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.