50bp DNA Ladder RTU

1. IDENTIFICATION OF THE PREPARATION/SUBSTANCE AND OF THE COMPANY

Preparation Name:
CSL-MDNA-50BP

Use of the preparation:
For laboratory use.
Suitable for use as molecular weight standards for agarose gel electrophoresis.
Company identification: Thistle Scientific Ltd
Site: http://www.thistlescientific.com
E-mail: enquiries@thistlescientific.co.uk
Emergency Tel No: +44 (0)1788 565300

2. 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

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.
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: ~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.

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. Thistle Scientific Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.