1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

- Trade name: **M100-1000 DNA Ladder**
- Article number: MR61, MR65
- Components: M100-1000 DNA Ladder, 6x GREEN DNA Loading Buffer

1.2 Relevant identified uses of the substance or mixture and uses advised against: **no data available**

- Application of the substance / the preparation: Laboratory chemicals

1.3 Details of the supplier of the safety data sheet

- Manufacturer/supplier:
  **BLIRT S.A.**
  Trzy Lipy 3/1.38
  80-172, Gdansk
  Poland
  orders@blirt.eu
  Tel. +48 58 739 61 50

1.4 Emergency telephone number:

- +48 58 739 61 50 (Inside normal business hours)
- 112
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2. Hazards identification

2.1 Classification of the substance or mixture

– Classification according to Regulation (EC) No 1272/2008

Not a hazardous mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

– Labelling according to Regulation (EC) No 1272/2008

The mixture is not classified and labelled according to the CLP regulation.

– Hazard pictograms: Not applicable

– Signal word: Not applicable

– Hazard-determining components of labelling: Not applicable

– Hazard statements: Not applicable

– Precautionary statement(s): Not applicable

2.3 Other hazards

Not applicable.
3. **Composition/information on ingredients**
   - **3.2 Chemical characterization:** *Mixture*
   - **Other information:** *Not significant*

4. **First aid measures**
   - **4.1 Description of first aid measures**
     - **General information:** *No special measures required.*
     - **After inhalation:** *Supply fresh air. If symptoms of irritation or respiratory allergy occur, consult a doctor.*
     - **After skin contact:** *Wash with water. If skin irritation continues, consult a doctor.*
     - **After eye contact:** *Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.*
     - **After swallowing:** *Rinse out mouth. If symptoms persist consult doctor.*
   - **4.2 Most important symptoms and effects, both acute and delayed:**
     *No further relevant information available.*
   - **4.3 Indication of any immediate medical attention and special treatment needed:**
     *No further relevant information available.*

5. **Firefighting measures**
   - **5.1 Extinguishing media**
     - **Suitable extinguishing agents:** *water spray, CO₂, foam, dry chemical powder.*
     - *Fight larger fires with water spray or alcohol resistant foam.*
   - **5.2 Special hazards arising from the substance or mixture**
     - **In case of fire, the following can be released:** *No further relevant information available.*
   - **5.3 Advise for firefighters**
     - **Protective equipment:** *Wear self-contained respiratory protective device.*
     - **Additional information**
       *Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.*

6. **Accidental release measures**
   - **6.1 Personal precautions, protective equipment and emergency procedures:** *Avoid mixture contact.*
   - **6.2 Environmental precautions:** *Do not allow to enter sewers/surface or ground water.*
   - **6.3 Methods and material for containment and cleaning up:** *Absorb spillages with liquid-binding material. Clean up affected area. Dispose of the material collected according to regulations.*
6.4 References to others sections

See section 7 for information on safe handling.
See section 8 for information on personal protection equipment.
See section 13 for disposal information.

7. Handling and storage

7.1 Precautions for safe handing: No special precautions are necessary if used correctly.

7.2 Conditions for safe storage, including any incompatibilities

– Requirements to be met by storerooms and receptacles: No special requirements.
– Information about storage in one common storage facility: Not required.
– Further information about storage conditions: Keep container sealed.
– Recommended storage temperature: -20°C
– Storage class: 10-13

7.3 Specific end use(s): No further relevant information available.

8. Exposure controls/personal protection

8.1 Control parameters

– Ingredients with limit values that require monitoring at the workplace: Not required.
– Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

– Personal protective equipment:
  • General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Ensure adequate ventilation.
  • Respiratory protection: No further relevant information available.
  • Protection of hands:
    Protective gloves – the glove material has to be impermeable and resistant to the product/the substance/the preparation.
    – Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation:
    • Material of gloves: the selection of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
    • Penetration time of glove material: The exact break through time has to be observed.
    • For the permanent contact gloves made of the following materials are suitable: Nitrile rubber, NBR. Recommended thickness of the material ≥0,11 mm. Value for the permeation: Level ≥480 min.
    • Eye protection: Safety glasses are recommended.
    • Body protection: Protective work clothing. Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.
9. **Physical and chemical properties**

9.1 Information on basic physical and chemical properties
   - Appearance:
   - Form: Liquid

9.2 Other information: No further relevant information available

10. **Stability and reactivity**

10.1 Reactivity: No data available.
10.2 Chemical stability: No data available.
   - Thermal decomposition/conditions to be avoided: No decomposition if used according to specifications.
10.3 Possibility of hazardous reaction: No dangerous reactions known.
10.4 Conditions to avoid: No further relevant information available.
10.5 Incompatible materials: No further relevant information available.
10.6 Hazardous decomposition product: See chapter 5.

11. **Toxicological information**

11.1 Information on toxicological effects
   - Primary irritant effect:
     - On the skin: No data available.
     - On the eye: No data available.
   - Sensitization: No sensitizing effects known.

12. **Ecological information**

12.1 Toxicity: No further relevant information available.
12.2 Persistence and degradability: No further relevant information available.
12.3 Bioaccumulative potential: No further relevant information available.
12.4 Mobility in soil: No further relevant information available.
12.5 Results of PBT and vPvB: Not applicable.
12.6 Other adverse effects: No further relevant information available.

13. **Disposal considerations**

13.1 Waste treatment methods
   - Recommendation: Chemicals must be disposed of in compliance with the respective national regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system.
   - Uncleaned packaging (Recommendation): Disposal must be made according to official regulations.
   - Recommended cleansing agents: Water, if necessary together with cleansing agents.
14. Transport information

14.1 UN-Number:
- ADR, ADN, IMDG, IATA: not dangerous goods/not applicable

14.2 UN proper shipping name:
- ADR, ADN, IMDG, IATA: not dangerous goods/not applicable

14.3 Transport hazard class(es):
- ADR, ADN, IMDG, IATA: not dangerous goods/not applicable
- Clasa: not dangerous goods/not applicable

14.4 Packing group:
- ADR, IMDG, IATA: not dangerous goods/not applicable

14.5 Environmental hazards:
- Marine pollutant: No

14.6 Special precautions for users: not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: not applicable
- Transport/additional information: not dangerous according to the above specifications.
- UN „Model Regulation”: not dangerous goods/not applicable

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: Not applicable.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.