

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name 1Kb DNA Ladder

Other means of identification

Product Code(s) M7508

Synonyms No information available

Product Use For Laboratory Research Use Only.

Supplier/Manufacturer

Biomatik Corporation
4 Third Ave
Kitchener, Ontario N2C 1N6
Canada

Telephone Number 1-519-489-7195

E-mail Address info@biomatik.com

Emergency Telephone Number 1-519-590-7717

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture: Not a hazardous substance or mixture.

GHS Label elements, including precautionary statements: Not a hazardous substance or mixture.

Hazards not otherwise classified (HNOC) or not covered by GHS: None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

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

Components not listed here are not dangerous or their concentrations do not exceed the limits according to the applicable regulations.

4. FIRST AID MEASURES

First Aid Measures

If inhaled: If breathed in, move the person into fresh air. If not breathing, give artificial respiration.

In case of skin contact: Wash off with soap and plenty of water.

In case of eye contact: Flush eyes with water as a precaution.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Suitable extinguishing media

Water spray. Carbon dioxide (CO₂). Foam. Dry chemical.

Unsuitable Extinguishing Media

No information available.

Specific Hazards Arising from the Chemical

Not known.

Explosion Data**Sensitivity to Mechanical Impact**

Not known.

Sensitivity to Static Discharge

Not known.

Protective Equipment and Precautions for Firefighters

Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Always wear recommended Personal Protective Equipment. Use personal protection equipment. See Section 8 for more detail.

Environmental Precautions

Unknown.

Methods and material for containment and cleaning up

Soak up with inert absorbent material.

7. HANDLING AND STORAGE**Precautions for Safe Handling**

Keep containers tightly closed in a dry and well-ventilated place. Containers that are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature: -20°C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Personal protective equipment****Respiratory protection**

Respiratory protection is not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected before use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use following applicable laws and good laboratory practices. Wash and dry hands.

Eye protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

The usual precautionary measures accepted in research laboratories, e.g. protective clothes (gowns). None specific requirements.

Hygiene measures

General industrial hygiene practice.

Specific engineering controls

Use mechanical exhaust or laboratory fume hood to avoid exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid
Color: Colorless
Odor: Odorless
pH 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

10. STABILITY AND REACTIVITY

Viscosity: Not viscous
Stability: Stable under storage conditions (see Section 7).
Conditions to avoid: No conditions that may cause dangerous reactions.
Possibility of hazardous reactions: No dangerous reactions are known.
Materials to avoid: No materials that may cause dangerous reactions.
Hazardous decomposition products: No dangerous decomposition products are known.
Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Routes of exposure:
Inhalation: Inhalation of aerosols may cause allergic reactions in sensitized individuals.
Ingestion: Repeated ingestion or excessive dosage may cause gastrointestinal irritation.
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

Toxicity: No data available
Persistence and degradability: No data available
Bioaccumulative potential: No data available
Mobility in soil: No data available
PBT and vPvB assessment: No data available
Other adverse effects: No data available

13. DISPOSAL CONSIDERATIONS

Product: Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

TDG
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

16. OTHER INFORMATION

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet