

Material Safety Data Sheet

according to 1907/2006/EC, Article 31

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

- **Product identifier**
- **Product code** M1071 M1072
- **Trade name** 100bp ladder plus
- **Relevant identified uses of the substance or mixture and uses advised against**
No relevant identified uses - mixture of substances.
- **Application of the substance / the preparation**
DNA size marker in electrophoresis assays for research use

Company/Undertaking Identification

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2. HAZARDS IDENTIFICATION

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
Not applicable.
- **Information concerning particular hazards for human and environment:**
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
- **Label elements**
- **Labelling according to EU guidelines:**
Observe the general safety regulations when handling chemicals.
The product is not subject to identification regulations under EU Directives.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous/Non-hazardous Components

Chemical Name	CAS-No.	EINECS-NoI	Weight %
Glycerol	56-81-5	200-289-5	10 - 60%
2-amino-2-(hydroxymethyl)-1,3-propanediol Xi, R 36/37/38	77-86-1	201-064-4	1 – 5%
Ethylene Diamine Tetraacetic Acid (EDTA)	60-00-4	200-449-4	1 – 5%
Sodium dodecyl sulfate	151-21-3	205-788-1	<1%

Other components:

Components not listed here are not dangerous or their concentrations do not exceed the limits specified in the EU directive 1907/2006/EC, Article 31

4. FIRST AID MEASURES

- **Description of first aid measures**

- General information: Take affected persons out into the fresh air.

- **After inhalation:**

In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:**

Immediately wash with water. If symptoms persist, call a doctor.

- **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- **After swallowing:** Rinse mouth. Consult a doctor for safety reasons.

- **Information for doctor:**

- **Most important symptoms and effects, both acute and delayed**

No further relevant information available.

- **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5. FIRE-FIGHTING MEASURES

- **Extinguishing media**

- **Suitable extinguishing agents:** Water

- **Special hazards arising from the substance or mixture**

No further relevant information available.

- **Advice for firefighters**

- **Protective equipment:**

During fire-fighting, wear suitable respiratory equipment and protective clothes.

6. ACCIDENTAL RELEASE MEASURES

- **Personal precautions, protective equipment and emergency procedures**

Not required.

- **Environmental precautions:** No special measures required.

- **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

- **Reference to other sections**

See Section 7 for information on safe handling.

Disposal must be made according to official regulations.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. HANDLING AND STORAGE

- **Handling:**

- **Precautions for safe handling**

No special precautions are necessary if used correctly.

- **Information about fire - and explosion protection:** No special measures required.

- **Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:**

No special measures required.

- **Information about storage in one common storage facility:** Not required.

- **Further information about storage conditions:** Not required.

- **Specific end use(s)** No further relevant information available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **Additional information:** The lists valid during the making were used as basis.

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

- **Respiratory protection: Not required in normal conditions.**

- **Protection of hands:**



Protective gloves

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the 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 determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

- **Eye protection:** Not required.

- **Body protection:**



Protective work clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form: liquid

Colour: dark blue, purple

- **Odour:** characteristic (odour of phenol)

- **Odour threshold:** Not determined.

- **pH-value:** Not determined.

- **Change in condition**

- **Melting point/Melting range:** Not applicable.

- **Boiling point/Boiling range:** Not applicable.

- **Flash point:** Not applicable.

- **Flammability (solid, gaseous):** Not applicable.

- **Ignition temperature:**

Decomposition temperature: Not determined.

- **Self-igniting: Product is not selfigniting.**

- **Danger of explosion:** Product does not present an explosion hazard.

- **Explosion limits:**

- **Lower:** Not determined.

- **Upper:** Not determined.

- **Vapour pressure:** Not determined.

- **Density:** Not determined.

- **Relative density** Not determined.

- **Vapour density** Not determined.

- **Evaporation rate** Not determined.

- **Solubility in / Miscibility with water:** Soluble

- **Segregation coefficient (n-octanol/water):** Not determined.

- **Viscosity:**

Dynamic: Not determined.

Kinematic: Not determined.

- **Other information** No further relevant information available.

10. STABILITY AND REACTIVITY

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** Stable at environment temperature.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12. ECOLOGICAL INFORMATION

- **Toxicity**
- **Acquatic toxicity:** No further relevant information available.
- **Persistence and degradability** Generally, the product is non hazardous.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**

The product doesn't contain any materials that are harmful to the environment.

Not known to be hazardous to water.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13. DISPOSAL CONSIDERATIONS

- **Waste treatment methods**
- **Recommendation**

Disposal must be made according to National Legislation.

Contact manufacturer for recycling information.
- **Uncleaned packaging:**

- **Recommendation:**

Disposal must be made according to official regulations.

Packaging may be reused or recycled after cleaning.

14. TRANSPORT INFORMATION

- Land transport ADR/RID (cross-border)
- ADR/RID class: -
- Maritime transport IMDG:
- IMDG Class: -
- Air transport ICAO-TI and IATA-DGR:
- ICAO/IATA Class: -
- Special precautions for user Not applicable.
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

15. REGULATORY INFORMATION

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EU Directives.
- Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

For research use only

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

End of Safety Data Sheet