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## 1. Identification of the substance/preparation and of the company

### Product details

**Trade Name:** GenLadder 100 bp + 1.5 kb DNA weight marker

**Cat#:** M3340

### Manufacturer /Supplier:

Genaxxon BioScience GmbH, Beim Wiesental 22, 88400 Biberach/Germany.  
Tel.: +49 (0)7357 916377

### Further information available from:

Genaxxon BioScience GmbH, Beim Wiesental 22, 88400 Biberach/Germany.  
Tel.: +49 (0)7357 916377

### Information in case of emergency:

Poison Information Centre Mainz, Germany  
Tel.: +49 (0)6131 19240 / 24 h

**MSDS-No:** m3340DNA/2

**NOTE:** If this product is a kit or supplied with more than one material, please refer to the MSDS for each component for hazard information.

### Product Use:

This products are for laboratory research use only and are not intended for human or animal diagnostics, therapeutics or other clinical uses.

## 2. Composition/information on ingredients

### Chemical characterisation

**Description:** Mixture of substances listed below with nonhazardous additions

**Dangerous components:** Void

## 3. Hazardous identification

**Emergency Overview:** Occubational exposure presents little or no health hazard..

### Potential Health Effects:

**Eye:** May cause irritation of the eye.

**Skin:** May cause skin irritation.

**Inhalation:** No toxicity expected from inhalation.

**Ingestion:** Mildly irritating to mouth, throat, and stomach. Can cause abdominal discomfort.

**Chronic:** No data on cancer.

**Classification system:** The classification is according the latest editions of the EU-lists, and extended by company and literature data.

## 4. First-aid measures

**After inhalation:** Supply fresh air; consult doctor in case of complaints.

**After skin contact:** Immediately wash with water and soap and rinse thoroughly. Obtain medical attention if symptoms develop (redness, itching, etc.).

**After eye contact:** Rinse opened eye for several minutes under running water (eyewash). Remove contact lenses. Clean before re-use. Then consult doctor.

**After swallowing:** Give plenty of water, if conscious. If vomiting occurs naturally, wash mouth out. Call for doctor immediately.



#### 5. Fire-fighting measures

**Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Protective equipment:** Do not inhale explosion gases or combustion gases.

**Hazardous Combustion Products:** Includes carbon dioxide, carbon monoxide, dense smoke.

#### 6. Accidental release measures

**Person related safety precautions:** Ensure adequate ventilation.

**Measures for environmental protection:** Do not allow product to reach sewage system or any water course.

**Measures for cleaning/collecting:** Absorb with liquid binding material (sand, diatomite, acid binders, universal binders, sawdust)

#### 7. Handling and storage

##### Handling

**Information for safe handling:** No special measures required.

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

##### Storage:

**Requirements to be met by storerooms and receptacles:** No special measures required.

**Information about storage in one common storage facility:** No special measures required.

**Further information about storage conditions:** None.

**Storage Pressure:** Ambient

#### 8. Exposure controls/personal protection

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

**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.

CAS-No.	Designation of material	%	Type	Value	Unit
56-81-5	glycerol	50			
OEL	10 mg/m <sup>3</sup>				

##### Personal protective equipment

**General protective and hygienic measures:** The usual precautionary measures are to be adhered to when handling chemicals.

**Respiratory protection:** Not required.

**Protection of hands:** Protective gloves.

**Materials 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 times of gloves:** The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Tightly sealed goggles.

#### 9. Physical and chemical properties

##### General Information

<b>Form:</b>	Fluid
<b>Colour:</b>	Blue liquid.
<b>Odour:</b>	No odor



## 9. Physical and chemical properties

### Change in conditions

<b>Melting point/Melting range:</b>	Undetermined
<b>Boiling point/Boiling range:</b>	Undetermined
<b>Flash point:</b>	Not applicable
<b>Ignition temperature:</b>	400°C
<b>Self-ignition:</b>	Product is not selfigniting
<b>Danger of explosion:</b>	Product does not present an explosion hazard
<b>Vapour pressure at 20°C:</b>	0.1 hPa
<b>Solubility in / Miscibility with water:</b>	Fully miscible
<b>pH-value at 20°C:</b>	7.0
<b>Evaporation Rate:</b>	0.3 (Butyl Acetate = 1.0)
<b>Viscosity:</b>	0,98 cp at 20°C

## 10. Stability and reactivity

**Thermal composition / conditions to be avoided:** No decomposition if used according to specifications.

**Dangerous reactions:** Reacts with acids, alkalis and oxidizing agents.

**Dangerous decomposition products:** Carbon dioxide, carbon monoxide.

**Hazardous polymerisation:** Not expected to occur.

## 11. Toxicological information

**Acute toxicity:**

**Primary irritant effects:**

**On the skin:** Irritant to skin and mucous membranes

**on the eye:** Irritating effect

**Sensitisation:** Sensitizing effects through inhalation is possible by prolonged exposure. Sensitising effect by skin contact is possible by prolonged exposure

**Carcinogenity:**

NTP: Not tested.

IARC: Not listed.

OSHA: Not regulated

**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.

## 12. Ecological Information

**General notes:** Water hazard class 1 (German Regulation) (Self assessment): slightly hazardous to water. Do not allow undiluted product for large quantities of it to reach ground water, water course or sewage system.

Bioconcentration is not expected to occur.

## 13. Disposal considerations

**Product:**

**Recommendation:** 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 cleaning agents:** Water, if necessary together with cleansing agents.#



#### 14. Transport information

**Land transport ADR/RID (cross border)**

ADR/RID class: -

**Maritime transport IMDG:**

IMDG Class: -

Marine pollutant: No

**Air transport ICAO-TI and IATA-DGR:**

ICAO/IATA Class: -

#### 15. Regulatory information

**Labelling according to EU guidelines:**

Observe the general safety regulations when handling chemicals

The product is not subject to identification regulations und EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

**United States guidelines:**

**TSCA:**

This product is solely for research and development purposes only and may not be used, processed or distributed for commercial purpose. It may only be handled by technically qualified individuals.

Prop 65 Listed Chemicals: Prop 65 Percentage

No Prop 65 Chemicals

No 313 Chemicals

**National Regulations:**

**Technical instructions (air):**

Class Share in %

- NK 50-100

**Waterhazard class:** Water hazard class 1 ( Self-assessment): slightly hazardous for water.

#### 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.

**The information in this MSDS does not constitute a warranty, express or implied, including any implied warranty of merchantability or fitness for any particular purpose.**

**Abbreviations:**

N/A: Data not applicable or not available  
SARA: Superfund and Reauthorisation Act  
HMIS: Hazard Material Information System  
WHMIS: Workplace Hazard Material Information System  
NTP: National Toxicology Program  
OSHA: Occupational Health and Safety Administration  
IARC: International Agency for Research on Cancer  
Prop 65: California Safe Drinking Water and Toxic Enforcement Act of 1986  
EINECS: European Inventory of Existing Commercial Chemical Substances