

Bioland Scientific LLC

Material Safety Data Sheet

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name	Taq DNA Polymerase
Product Number	E01
Brand	Bioland Scientific LLC
Company	Bioland Scientific LLC 14925 Paramount Blvd., Suite C Paramount, CA 90723 USA
Telephone	1-562-377-2668
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2. COMPOSITION/INFORMATION ON INGREDIENTS

- Chemical characterization
- Description: Solution, consisting of the following components.
- Components: 7732-18-5 water >80 %; 56-81-5 glycerol 20%
- Other components:

3. HAZARDS IDENTIFICATION

· **Hazard description:** Not applicable.

· **Information pertaining to particular dangers for man and environment:**

The product does not have to be labelled due to the calculation procedure of international guidelines.

· **Classification system:** The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· **NFPA ratings (scale 0 - 4)**



Health= 0

Fire= 0

Reactivity=0

· **HMIS-ratings (scale 0 - 4)**



Health= 0

Fire= 0

Reactivity=0

4. FIRST AID MEASURES

- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing agents:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **Protective equipment:**

No special measures required.

6. ACCIDENTAL RELEASE MEASURES

· **Person-related safety precautions:**

Not required.

· **Measures for environmental protection:**

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· **Measures for cleaning/collecting:**

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

· **Additional information:**

No dangerous substances are released.

7. HANDLING AND STORAGE

Handling:

Information for safe handling: No special measures required.

Information about protection against explosions and fires: No special measures required.

Storage:

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: None.

8.EXPOSURE CONTROLS/PERSONAL PROTECTION

· Components 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 that were valid during the creation were used as basis.

· Personal protective equipment:

· General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

· **Breathing equipment:** Not required.

· Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Eye protection:** Goggles recommended during refilling.

9.PHYSICAL AND CHEMICAL PROPERTIES

· General Information

Form: Solution	Color: Colorless or blue	Odor: Nearly Odorless
Change in condition		
Melting point/Melting range: Undetermined.	Boiling point/Boiling range: 100°C (212 °F)	
Flash point: Not applicable.	Auto igniting: 400°C (752 °F).	
Danger of explosion: Product does not present an explosion hazard.	Density: 1.2610g/cm3.	pH-value at 20°C (68 °F): 8
Solubility in / Miscibility with Water: Fully miscible.		

10.STABILITY AND REACTIVITY

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

Materials to be avoided:

Dangerous reactions: No dangerous reactions known.

Dangerous products of decomposition: No dangerous decomposition products known.

11.TOXICOLOGICAL INFORMATION

Acute toxicity:

LD/LC50 values that are relevant for classification: No data available

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 internally approved calculation methods for preparations. When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12.ECOLOGICAL INFORMATION

Additional ecological information:

General notes:

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

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13.DISPOSAL CONSIDERATIONS

Product:

Recommendation: Smaller quantities can be disposed of with household waste.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

14.TRANSPORTATION INFORMATION

DOT regulations:	Land transport ADR/RID (cross-border):
· Hazard class: -	· ADR/RID class: -
· Maritime transport IMDG:	· Air transport ICAO-TI and IATA-DGR:
· IMDG Class: -	· ICAO/IATA Class: -This substance is not subject to
· Marine pollutant: No	IATA DGR. Not Restricted in IATA DGR

15.REGULATORY INFORMATION

- **Sara**
- **Section 355 (extremely hazardous substances):** None of the ingredients is listed.
- **Section 313 (Specific toxic chemical listings):** None of the ingredients is listed.
- **TSCA (Toxic Substances Control Act):** All ingredients are listed.
- **Proposition 65**
- **Chemicals known to cause cancer:** None of the ingredients is listed.
- **Chemicals known to cause reproductive toxicity for females:** None of the ingredients is listed.
- **Chemicals known to cause reproductive toxicity for males:** None of the ingredients is listed.DR
- **Chemicals known to cause developmental toxicity:** None of the ingredients is listed.
- **Cancerogenity categories**
- **EPA (Environmental Protection Agency)** None of the ingredients is listed.
- **IARC (International Agency for Research on Cancer)** None of the ingredients is listed.
- **NTP (National Toxicology Program)** None of the ingredients is listed.
- **TLV (Threshold Limit Value established by ACGIH)** None of the ingredients is listed.
- **NIOSH-Ca (National Institute for Occupational Safety and Health)** None of the ingredients is listed.
- **OSHA-Ca (Occupational Safety & Health Administration)** None of the ingredients is listed.
- **Product related hazard information:** Observe the general safety regulations when handling chemicals.
The product is not subject to identification regulations according to directives on hazardous materials.

16.OTHER INFORMATION

Disclaimer:

Bioland Scientific LLC provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. BIOLAND SCIENTIFIC LLC MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, BIOLAND SCIENTIFIC LLC WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.