

# Bioland Scientific LLC

## Material Safety Data Sheet

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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name 10xTBE

Product Number TBE  
Brand Bioland Scientific LLC

Company Bioland Scientific LLC  
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Paramount, CA 90723  
USA

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### Chemical characterization: Mixtures

**Description:** Solution, consisting of the following components.

Components:		
7732-18-5	water	>50%
77-86-1	trometamol	10-25%
10043-35-3	boric acid	2.5-5.5%

#### Other components:

Components not listed here are not hazardous or their concentrations do not exceed the limits specified in the OSHA Hazard Communication Standard 29 CFR 1910.1200.

SVHC		
10043-35-3	boric acid	

### 3. 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 labeled 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.

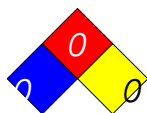
#### Label elements

#### Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations according to directives on hazardous materials.

**Classification system:**  
**NFPA ratings (scale 0 - 4)**



Health = 0

Fire = 0

Reactivity = 0

**HMIS-ratings (scale 0 - 4)**



Health = 0

Fire = 0

Reactivity = 0

**Other hazards**

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

#### **4. FIRST AID MEASURES**

**Description of 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.

**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:

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

**Special hazards arising from the substance or mixture** No further relevant information available.

### Advice for firefighters

**Protective equipment:** No special measures required.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures** Not required.

### Environmental precautions:

Dilute with plenty of water.

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

### Methods and material for containment and cleaning up:

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

### Reference to other sections

No dangerous substances are released.

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

### Handling:

**Precautions for safe handling** No special measures required.

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

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

### 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.

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

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Components with limit values that require monitoring at the workplace:	
10043-35-3 boric acid	
TLV	Short-term value: 6 l mg/m <sup>3</sup> Long-term value: 2 l

Additional information: The lists that were valid during the creation were used as basis.

### Exposure controls

#### 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:

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

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.

**Penetration time of glove material**

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

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

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties****General Information****Appearance:**

<b>Form:</b>	Solution
<b>Color:</b>	Colorless
<b>Odor:</b>	Odorless
<b>Odour threshold:</b>	Not determined.

<b>pH-value at 20 °C (68 °F):</b>	8.3
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**Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
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<b>Boiling point/Boiling range:</b>	Undetermined.
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<b>Flash point:</b>	Not applicable.
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<b>Flammability (solid, gaseous):</b>	Not applicable.
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<b>Ignition temperature:</b>	
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<b>Decomposition temperature:</b>	Not determined.
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<b>Auto igniting:</b>	Product is not selfigniting.
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<b>Danger of explosion:</b>	Product does not present an explosion
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**Explosion limits:**

<b>Lower:</b>	Not determined.
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<b>Upper:</b>	Not determined.
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<b>Vapor pressure:</b>	Not determined.
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<b>Density at 20 °C (68 °F):</b>	1.06 g/cm <sup>3</sup> (8.846 lbs/gal)
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<b>Relative density</b>	Not determined.
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<b>Vapour density</b>	Not determined.
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<b>Evaporation rate</b>	Not determined.
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**Solubility in / Miscibility with**

<b>Water:</b>	Fully miscible.
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<b>Partition coefficient (n-octanol/water):</b>	Not determined.
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**Viscosity:**

<b>Dynamic:</b>	Not determined.
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<b>Kinematic:</b>	Not determined.
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<b>Other information available.</b>	No further relevant information
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## 10. STABILITY AND REACTIVITY

### Reactivity

### Chemical stability

### Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

**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:

### LD/LC50 values that are relevant for classification:

### 10043-35-3 boric acid

Oral	LD50	2660 mg/kg (rat)
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### 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.

### Carcinogenic categories

### IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

### NTP (National Toxicology Program)

None of the ingredients is listed.

## 12. ECOLOGICAL INFORMATION

### Toxicity

**Aquatic toxicity:** No further relevant information available.

**Persistence and degradability** No further relevant information available.

### Behavior in environmental systems:

**Bioaccumulative potential** No further relevant information available.

**Mobility in soil** No further relevant information available.

### Additional ecological information:

### General notes:

Water hazard class 2 (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

### 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:** 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

<b>UN-Number</b> DOT, ADR, ADN, IMDG, IATA	Void
<b>UN proper shipping name</b> DOT, ADR, ADN, IMDG, IATA	Void
<b>Transport hazard class(es)</b> DOT, ADR, ADN, IMDG, IATA Class	Void
<b>Packing group</b> DOT, ADR, IMDG, IATA	Void
<b>Environmental hazards:</b> <b>Marine pollutant:</b>	No
<b>Special precautions for user</b>	Not applicable.
<b>Transport in bulk according to MARPOL73/78 and the IBC Code</b>	II of Not applicable.

### 15.REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

Sara

<b>Section 355 (extremely hazardous substances):</b>
None of the ingredients is listed.
<b>Section 313 (Specific toxic chemical listings):</b>
None of the ingredients is listed.
<b>TSCA (Toxic Substances Control Act):</b>
All ingredients are listed.

#### Proposition 65

<b>Chemicals known to cause cancer:</b>
None of the ingredients is listed.
<b>Chemicals known to cause reproductive toxicity for females:</b>
None of the ingredients is listed.
<b>Chemicals known to cause reproductive toxicity for males:</b>
None of the ingredients is listed.
<b>Chemicals known to cause developmental toxicity:</b>
None of the ingredients is listed.

### Carcinogenicity categories

#### EPA (Environmental Protection Agency)

None of the ingredients is listed.

#### TLV (Threshold Limit Value established by ACGIH)

10043-35-3 boric acid

A4

#### 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.

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

## 16.OTHER INFORMATION

### Disclaimer:

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**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.**