

# Bioland Scientific LLC

## Material Safety Data Sheet

Version 1.0

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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name 10xTBST

Product Number TBST03

Brand Bioland Scientific LLC

Company Bioland Scientific LLC  
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USA

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	EINECS-No	Weight %
TRIS Base 77-86-1 (5-10)	77-86-1	201-064-4	5-10
Sodium chloride 7647-14-5 ( 10-20 )	7647-14-5	231-598-3	10-20

We recommend handling all chemicals with caution.

### 3. HAZARDS IDENTIFICATION

#### GHS – Classification

#### Signal Word

WARNING



#### Health hazards

Serious eye damage/eye irritation

Category 2

#### Physical hazards

Not classified

**Hazard Statements**

H319 - Causes serious eye irritation

**Precautionary Statements**

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P264 - Wash hands thoroughly after handling

**Principle Routes of Exposure****Potential Health Effects**

eyes

Irritating to eyes

Skin

May cause skin irritation in susceptible persons.

inhalation

May cause irritation of respiratory tract.

Ingestion

May be harmful if swallowed.

**Specific effects**

Carcinogenic effects

None.

Mutagenic effects

None.

Reproductive toxicity

None.

Sensitization

Not Applicable

Target Organ Effects

None under normal use conditions.

**HMIS**

Health	2
Flammability	0
Reactivity	0

**4. FIRST AID MEASURES**

**Skin contact**

Wash off immediately with plenty of water for at least 15 minutes.

Take off all contaminated clothing and wash it before reuse.

Immediate medical attention is required.

**Eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at Least 15 minutes. Immediate medical attention is required.

**Ingestion**

Call a physician or poison control center immediately. Never give Anything by mouth to an unconscious person. Do not induce vomiting Without medical advice.

**inhalation**

Remove to fresh air. If not breathing, give artificial respiration. Call a physician or poison control center immediately

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

H319 - Causes serious eye irritation

**Notes to Physician**

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical

**Special protective equipment for firefighters**

Wear self-contained breathing apparatus and protective suit

**Specific hazards arising from the chemical**

Not known

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**

Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Use personal protective equipment

**Methods for cleaning up**

Soak up with inert absorbent material.

**Environmental precautions**

No special environmental precautions required.  
See Section 12 for more information.

## 7. HANDLING AND STORAGE

**Handling**

Always wear recommended Personal Protective Equipment. No special handling advice is necessary.

**Storage**

Keep in a dry, cool and well-ventilated place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Limits

Disodium hydrogen phosphate	None	None	None	None
sodium chloride	None	None	None	None

**Engineering measures**

Ensure adequate ventilation, especially in confined areas.

**Personal Protective Equipment**

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

**Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment.

**Hand protection**

Impervious gloves.

**Eye protection**

Wear safety glasses with side shields (or goggles).

**Skin and Body Protection**

Lightweight protective clothing.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls**

No special environmental precautions required

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### General information

Form	Liquid	
Appearance	No information available	
Odor	Mixture has not been tested	
Odor Threshold	Mixture has not been tested	
Boiling point / boiling range °C	°C No data available	°F No data available
Melting point / melting range °C	°C No data available	°F No data available
flash point °C No data available °F	°C No data available	°F No data available
Autoignition Temperature °C	°C No data available	°F No data available
Evaporation rate	No data available	
Flammability (solid, gas)	No data available	
Oxidizing properties	Mixture has not been tested	
Water solubility	No data available	
Upper explosion limit	No data available	
Lower explosion limit	No data available	
Partition coefficient: n-octanol/water	No data available	
Vapor Pressure	No data available	
vapor density	No data available	
Viscosity	Mixture has not been tested	
pH value	No data available	

## 10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Materials to avoid	No information available
Possibility of hazardous Reactions	Hazardous reaction has not been reported
Hazardous decomposition Products	No information available
polymerization	Hazardous polymerization does not occur.
Conditions to avoid	None under normal processing.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

TRIS Base	= 5900 mg/kg (Rat)	No data available	No data available
sodium chloride	= 3 g/kg (Rat)	No data available	>42g/m <sup>3</sup> (Rat)

### Principle Routes of Exposure

#### Potential Health Effects

Eyes	Irritating to eyes
Skin	May cause skin irritation in susceptible persons.
inhalation	May cause irritation of respiratory tract.
Ingestion	May be harmful if swallowed.
Carcinogenic effects	None.
Mutagenic effects	None.

<b>Reproductive toxicity</b>	None.
<b>Sensitization</b>	No information available.
<b>Target Organ Effects</b>	None under normal use conditions

## 12.ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	The environmental impact of this product has not been fully investigated.
<b>Mobility</b>	No information available.
<b>Biodegradation</b>	No information available.
<b>Bioaccumulation</b>	No information available.

Chemical Name	Freshwater Algae Data	Water Flea Data	Freshwater Fish Species Data	Microtox Data	log Pow
sodium chloride		Daphnia magna EC50=1000 mg/L (48 h) Daphnia magna EC50340.7 - 469.2 mg/L (48 h)			

## 13.DISPOSAL CONSIDERATIONS

Dispose of contents/containers in accordance with local regulations.

## 14.TRANSPORTATION INFORMATION

<b><u>IATA</u></b>	
<b>Proper Shipping Name</b>	No dangerous good in sense of these transport regulations
<b>Hazard Class</b>	None
<b>Subsidiary class</b>	None
<b>Packing group</b>	None
<b>UN-No</b>	None
<b>Environmental hazards</b>	None

## 15.REGULATORY INFORMATION

Component	US TSCA
TRIS Base 77-86-1 ( 5-10 )	Listed
sodium chloride 7647-14-5 ( 10-20 )	Listed

### US Federal Regulations

#### **SARA 313**

This product is not regulated by SARA.

#### **Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contains HAPs.

### US State Regulations

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### **WHMIS Hazard Class**

D2B – Toxic materials



This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

## 16.OTHER INFORMATION

### **Disclaimer:**

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