

Bioland Scientific LLC

Material Safety Data Sheet

Version 1.0

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name 20xTBST

Product Number TBST04

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 (CO₂). 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 ³ (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.

Reproductive toxicity	None.
Sensitization	No information available.
Target Organ Effects	None under normal use conditions

12.ECOLOGICAL INFORMATION

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

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

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.