

Material Safety Data Sheet

Revision date : 6-1-2021 DOC# : T8058MSDS060121

1. PRODUCT & COMPANY IDENTIFICATION

Product Name : TBST Buffer, 10X, pH7.4 Product Cat No : T8058 CAS No : Not applicable EC No : Not applicable Manufacturer/Supplier : GenDEPOT LLC PO Box 454 Barker, Tx, 77413

Barker, Tx 77413 Emergency Phone : 866.417.0078 Fax : 281-579-6876

2. HAZARD IDENTIFICATION

Emergency Overview

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Not a hazardous substance or mixture

3. COMPOSITION/INFORMATION ON INGREDIENT

Synonyms:

No ingredients are hazardous according to OHSA criteria.

Component	Classification	Concentration
trometamol		
CAS No EC No	77-86-1 201-064-4	10-20%

GHS Label elements, including precautionary statements

Pictogram none

Signal word none

Hazard statement(s) none

Precautionary statement(s) none

P273 Avoid release to the environment. P501 Dispose of contents/ container to an approved waste

disposal plant.

Potential Health Effects

Inhalation : May be harmful if inhaled, Causes respiratory tract irritationSkin: May be harmful if absorbed through skin. Cause skin irritationEyes: Causes eye irritation

Ingestion : May be harmful if swallowed.

4. FIRST AID MEASURES

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

- Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
- In case of skin contact: Wash off with soap and plenty of water. Consult a physician.
- In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed : Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

5. FIREFIGHTING MEASURES

Suitable extinguishing media: For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

Special protective equipment for firefighters: Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products: No additional information available

Further information: Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precaution: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precaution: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for contaminant and cleaning up: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precaution for safe handling: Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Condition for safe storage: Keep container tightly closed in a dry and wellventilated place.

Recommended storage temperature: Room temperature

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment: .

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Complete suit protecting against chemicals.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICIAL AND CHEMICAL PROPERTIES

Appearance:

Form	Liquid
Color	Colorless

Safety data:

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pH	7.2-7.6
Melting point	no data available
Freezing point	no data available
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Auto-ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapor pressure	no data available
Density	no data available
Water solubility	Easily soluble in water
Partition coefficient: n-octanol/water	no data available
Relative vapor density	no date available
Odor	odorless
Odor threshold	no data available
Evaporation rate	no data available

10. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous reactions no data available.

Condition to avoid no data available ..

Materials to avoid no data available.

Hazardous decomposition products

Carbon oxides, Hydrogen chloride gas, nitrogen oxides (NOx), Sodium oxides Other decomposition products - no data available In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATON

Acute Toxicity

no data available

Skin corrosion/irritation no data available

Serious eye damage/eye irritation no data available

Respiratory or skin sensitization no data available

Mutagenicity (Germ cell mutagenicity) no data available

Specific target organ toxicity— single exposure (GHS) no data available

Specific target organ toxicity— repeated exposure (GHS) no data available

Aspiration hazard no data available

Potential health effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation

Synergistic effects no data available

Additional information RTECS : not available

12. ECOLOGICAL INFORMATION

Toxicity no data available

IARC : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

NTP : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

Reproductive toxicity no data available

Teratogenicity no data available **Persistence and degradability** no data available

Bioaccumulative potential no data available

Mobility in soil no data available

PBT and vPvB assessment no data available

Other adverse effect no data available

13. DISPOSAL CONSIDERATIONS

Product

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging Dispose of as unused product.

Carcinogenicity no data available

14. TRANSPORT INFORMATION

DOT(US)

Not dangerous goods

IMDG Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

United States

HCS Classification : Non Hazard TSCA 8(a) IUR exempt/Partial exemption : not determined United States Inventory (TSCA 8b) : not determined SARA 302/304/311/312 extremely hazardous substances : No products were found SARA 302/304 emergency planning and notification: No products were found SARA 302/304/311/312 hazardous chemicals : No SARA hazard SARA 311/312 Hazard Identification : No SARA hazard

Clean Air Act Section 112(b) Hazardous air pollutants (HAPs)	: not listed
Clean Air Act Section 602 Class I substances	: not listed
Clean Air Act Section 602 Class II substances	: not listed
DEA List I Chemicals (Precursor chemicals)	: not listed
DEA List II Chemicals (Essential chemicals)	: not listed

States Regulation

Massachusetts New York :	: The following components are listed Not listed The following components are listed Not listed	
New Jersey :	The following components are listed Tris (hydroxymethyl) aminomethane Potassium chloride Water	CAS No 77-86-1 CAS No 7447-40-7 CAS No. 7732-18-5
Pennsylvania :	The following components are listed Tris (hydroxymethyl) aminomethane Potassium chloride Water CAS-No. 7732-18-5	CAS No 77-86-1 CAS No 7447-40-7

California Prop. 65 Components :

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

International Regulation

No additional information available

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HIMS Rating:

Health hazard :	2
Chronic Health Hazard :	*
Flammability :	0
Physical hazards:	0

NFPA Rating:

Health Hazard:	0
Fire:	0
Reactivity Hazard:	0

Full text of H-Statements referred to under sections 2 and 3. Aquatic Acute Acute aquatic toxicity Aquatic Chronic Chronic aquatic toxicity H402 Harmful to aquatic life. H412 Harmful to aquatic life with long lasting effects

This compound is sold only for research use by personnel familiar chemicals and who are well trained in good laboratory habits, such as avoiding spills, keeping hands clean at all times and no rubbing eyes with working in the laboratory.

This solution is sold only in microliter quantities for use in life sciences research. No other use is intended. And any other use may involve substantive hazards.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish or legally valid contractual relationship. GenDEPOT LLC, shall not be held liable for any damage resulting from handling of or from with above product. The burden of safe use of this material rests entirely with the user.

Since the conditions of handling, storage and disposal of this material are beyond our control, it is the responsibility of the user to determine whether the material is fit for a particular purpose and/or suitable for the user's method of use or application, and to determine safe conditions for use of the material, and to assume full responsibility for loss, injury and expense arising out of or in connection with the use of material. NO REPRESEN-TATION OR WARRANTY, EXPRESS OR IMPLIED, REGARDING THE MATERIAL DESCRIBED HEREIN SHALL BE CREATED BY OR INFERRED FROM ANY STATEMENT OR OMISSION FROM THIS MSDS.

Various government agencies and local authorities may have general or specific regulations applicable to the material which may not be covered in this MSDS. It is sole responsibility of the user to examine and confirm for its full compliance with any such regulations.

When the revision of this MSDS is received, please dispose of the old one.

Department issuing MSDS: GenDEPOT LLC Safety Department