



Trade Name: TBE Running Buffer, 5X

M S D S

Revision Date: 02-15-2010

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY:

Product Code: EC-1017
Trade Name: TBE Running Buffer, 5X
Chemical Name: Tris-Boric Acid-EDTA Buffer
Company Identification: EMBI TEC
7738 Arjons Drive
San Diego, CA 92126
USA
858-684-3190

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS:

Hazardous/Non-hazardous Components: This product contains TRIS, boric acid and EDTA. Overall, this product contains no substances which at their given concentration, are considered to be hazardous to health.

SECTION 3. HAZARDS IDENTIFICATION:

Emergency Overview: May cause sensitization by skin contact. An eye irritant.

Potential Health Effects:

- Eyes** Direct contact can cause eye irritation including redness, tearing & pain.
- Skin** May cause mild irritation in susceptible persons
- Ingestion** May cause gastrointestinal irritation, nausea & discomfort
- Chronic Effects** Data not available

SECTION 4. FIRST AID MEASURES:

Skin contact: Wash off immediately with plenty of water

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes

Ingestion: Get medical attention immediately; never give anything by mouth to an unconscious person

Inhalation: Move to fresh air

Notes To physician: Treat symptomatically

SECTION 5. FIRE-FIGHTING MEASURES:

Suitable Extinguishing Media: Dry chemical

Special Protective Equipment for Firefighters: Wear self-contained breathing apparatus and protective suit



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SECTION 6. ACCIDENTAL RELEASE MEASURES:

Personal Precautions: Use personal protective equipment
Methods For Cleaning Up: Soak up with inert absorbent material, if needed

SECTION 7. HANDLING AND STORAGE:

Handling: No special handling advice required
Storage: Keep in properly labeled containers. Do not freeze

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Exposure Limit Values: None established
Exposure Controls: Use process enclosures, local exhaust ventilation, or other engineering controls as needed
Respiratory Protection: Use an approved air-purifying respirator as needed
Eye/Face Protection: Use safety glasses or chemical goggles
Skin/Hand Protection: Use chemical gloves as needed. Wear lightweight protective clothing
Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice
Environmental Exposure Controls: None

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: Clear
Odor: None
Flash Point: Data not available
Viscosity: Data not available
Solubility: Aqueous solution
Density: Data not available
Boiling Point: Data not available
Melting Point: Data not available
pH: 8.13 - 8.23

SECTION 10. STABILITY AND REACTIVITY:

Stability: Stable
Materials To Avoid: No information available
Hazardous Decomposition Products: No information available
Polymerization: Hazardous polymerization does not occur

SECTION 11. TOXICOLOGICAL INFORMATION:

TRIS: Oral LD50 for rat is 5900 mg/kg

SECTION 12. ECOLOGICAL INFORMATION:

Ecotoxicity: No information available
Mobility: No information available
Biodegradation: Inherently biodegradable
Bioaccumulation: Does not bioaccumulate



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SECTION 13. DISPOSAL CONSIDERATIONS:

Dispose of in accordance with local regulations

SECTION 14. TRANSPORT INFORMATION:

IATA Proper Shipping Name: Not classified as dangerous in the meaning of transport regulations

IATA Hazard Class: Not classified as hazardous for transport

SECTION 15. REGULATORY INFORMATION:

US Federal Regulations:

SARA 313 Toxic Chemicals

This product is not regulated by SARA

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

This product does not contain HAPs

US State Regulations:

This product does not contain chemicals listed under California Proposition 65.

EU Regulations:

This preparation does not meet the dangerous preparations classification criteria under 1999/45/EC.

Components are listed on EINECS or exempted from listing.

Canadian Regulations:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and contains the information required by the CPR.

This product is classified as “non-controlled” under the WHMIS Hazard Class.

SECTION 16. OTHER INFORMATION:

NFPA/HMIS Ratings: Health = 1; Fire = 0; Reactivity = 0, NFPA/Special = None

This product is sold for research and development purposes only. It is not intended for food, drug, household, agricultural, or cosmetic use. An individual technically qualified to handle potentially hazardous chemicals must supervise the use of this material.

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may be present unknown hazards and should be used with caution. Since Embi Tec cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein.

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End of Material Safety Data Sheet