

MATERIAL SAFETY DATA SHEET

Tris-Acetate-EDTA Buffer (TAE), pH 8.3

1. Product and Company Information

Product Name: Tris-Acetate-EDTA Buffer (TAE), pH 8.3, Electrophoresis running buffer
Product Number A12-9144, A12-9145
Synonyms: TAE
Manufacturer: Medicago AB
Danmark Berga
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Sweden
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Emergency Phone: 112 (Sweden)

2. Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT

Harmful if swallowed. Irritating to eyes, respiratory system and skin.



3. Composition/Information on Ingredients

Product Name		CAS #	EC #	
TRIS-ACETATE-EDTA BUFFER		None	None	
Ingredient name:	Percent	CAS no.:	EC no.:	Annex I Index Number
TRIS (HYDROXYMETHYL) AMINOMETHANE FREE BASE	>= 37 <= 38	None	None	None
Symbols: Xi R-Phrases: 36/37/38 Irritating to eyes, respiratory system and skin.				
TRIS (HYDROXYMETHYL) AMINOMETHANE ACETATE	>= 56 <= 57	None	None	None
ETHYLENEDIAMINETETRAACETIC ACID DISODIUM DIHYDRATE	>= 5 <= 6	None	None	None

4. First-Aid Measures

AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

AFTER SKIN CONTACT

In case of contact, immediately wash skin with soap and copious amounts of water. Remove contaminated clothing and shoes. Call a physician.

AFTER EYE CONTACT

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

5. Fire-Fighting Measures

EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

SPECIAL RISKS

Specific Hazard (s): Emits toxic fumes under fire conditions

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. Accidental Release Measures

PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area.

PROCEDURE (S) OF PERSONAL PRECAUTION (S)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7. Handling and Storage

HANDLING

Directions for Safe Handling: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE

Conditions of Storage: Keep tightly closed.

8. Exposure Controls/Personal Protection

ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or GEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator.

Hand Protection: Compatible chemical-resistant gloves.

Eye Protection: Chemical safety goggles.

9. Physical and Chemical Properties

Appearance	Physical state: Solid powder
Color: White	
Property	Value
pH	8.1 – 8.5
Concentration:	64.2 g/l
BP/BP Range	N/A
MP/MP Range	N/A
Flammability	N/A
Autoignition Temp	N/A
Oxidizing Properties	N/A
Explosive Properties	N/A
Explosion Limits	N/A
Vapor Pressure	N/A
SG/Density	N/A
Partition Coefficient	N/A
Viscosity	N/A
Vapor Density	N/A

Saturated Vapor Conc.	N/A
Evaporation Rate	N/A
Bulk Density	N/A
Decomposition Temp	N/A
Solvent Content	N/A
Water Content	N/A
Surface Tension	N/A
Conductivity	N/A
Miscellaneous	N/A
Solubility	N/A

10. Stability and Reactivity

STABILITY

Stable.

Oxidizing agents.

Stable:
Materials to Avoid:

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

11. Toxicological Information

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

ROUTE OF EXPOSURE

Skin Contact: Causes skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: Causes eye irritation.

Inhalation: Material is irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled. Ingestion: May be harmful if swallowed.

12. Ecological Information

No data available.

13. Disposal Considerations

SUBSTANCE DISPOSAL

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

14. Transport Information

RID/ADR

Non-hazardous for road transport.

IMDG

Non-hazardous for sea transport

IATA

Non-hazardous for air transport

15. Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: Xn

Harmful.

R-Phrases: 22-36/37/38

Harmful if swallowed. Irritating to eyes, respiratory system and skin.

S-Phrases: 26-36

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

Caution: Substance not yet fully tested (EU).

COUNTRY SPECIFIC INFORMATION

Germany

WGK: 3

Self-Classification

16. Other Information

Precautions and Disclaimer: For laboratory use only. Not for drug, household or other uses.

Revision date: 2010-05-19

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Medicago AB, Sweden shall not be held liable for any damage resulting from handling or from contact with the above product.