

1. Identification of the substance/preparation and of the company

Product details

Trade Name: TAE buffer (50X) ready-to-use solution

Product Name: TAE buffer (50X) ready-to-use solution

Catalogue-No.: M3087

Manufacturer /Supplier:

Genaxxon bioscience GmbH, Söflinger Str. 100, 89077 Ulm/Germany.
Tel.: +49 (0)731 3608 123

Further information available from:

Genaxxon bioscience GmbH, Söflinger Str. 100, 89077 Ulm/Germany.
Tel.: +49 (0)731 3608 123

Information in case of emergency:

Genaxxon bioscience GmbH, Söflinger Str. 100, 89077 Ulm/Germany.
Tel.: +49 (0)731 3608 123

MSDS-No: tae50x/1

NOTE: If this product is a kit or supplied with more than one material, please refer to the MSDS for each component for hazard information.

Product Use:

This products are for laboratory research use only and are not intended for human or animal diagnostics, therapeutics or other clinical uses.

2. Composition/information on ingredients

Chemical characterisation

Description: Solution of EDTA, glacial acid and Tris in water

Product Name	Hazardous Symbol	Percent content	CAS #	EC no	Annex I / Index Number
Water	---	>67.8 - <68.0	7732-18-5	231-791-2	none
[2-Hydroxy-1,1-bis(hydroxymethyl)ethyl]ammonium acetate	---	>30.2 - <30.3	6850-28-8	229-939-6	none
Ethylenediaminetetraacetic acid disodium dihydrate	---	>1.8 - <1.9	6381-92-6	205-358-3	none

3. Hazardous identification

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

Information concerning particular hazards for human and environment:

Not applicable.

Classification system: Not hazardous according to Directive 99/45/EEC.

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 contact with skin: Rinse immediately with copious amounts of water.

After contact with eyes: Flush immediately with copious amounts of water. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

After swallowing: If swallowed, wash out mouth with plenty of water provided person is conscious. Call for doctor immediately.

5. Fire-fighting measures

Suitable extinguishing agents: Water Spray. Carbon Dioxide. Dry chemical powder, or appropriate foam.

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

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: Don't breath fume/aerosole. Avoid direct contact. Ventilate area and wash spill site after material pick-up is complete.

Person related safety precautions: Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

Measures for environmental protection: Avoid release to sewage system or environment.

Measures for cleaning/collecting: Absorb on sand or vermiculate and place in closed containers for waste disposal.

Additional information: None

7. Handling and storage

Handling

Information for safe handling: Avoid inhalation. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

Information about fire – and explosion protection: Normal measures for preventive fire protection.

Storage:

Requirements to be met by storerooms and receptacles: Keep bottles well closed.

Information about storage in one common storage facility: Keep bottles well closed.

Further information about storage conditions: Keep tightly closed. Store at RT.

Special requirements: No special measures required.

8. Exposure controls/personal protection

Engineering controls: Safety shower and eye bath. Mechanical exhaust required.

Personal protective equipment: Respirator, chemical safety goggles, heavy rubber gloves.

General protective and hygienic measures: Wash thoroughly after handling.

Respiratory protection: Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Protection of hands: For prolonged or repeated contact use protective gloves.

Materials of gloves: The selection of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration times of gloves: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Safety goggles.

Hygiene measures:

General industrial hygiene practice



9. Physical and chemical properties

General Information

Form:	Clear Liquid
Colour:	Colourless
Odour:	none

Change in conditions

Melting point/Melting range:	No data available
Boiling point/Boiling range:	No data available
Flash point:	Not applicable
Self-ignition:	data not available
Danger of explosion:	data not available
Density at 20°C:	1.1 g/cm ³
Solubility in / Miscibility with water:	soluble
pH value at 20°C:	ca. 8.5 +/-0.2
Log P(o/w):	data not available

10. Stability and reactivity

Storage stability: Stable under recommended storage conditions.

Thermal composition / conditions to be avoided: Avoid strong heating.

Materials to avoid: Avoid strong oxidizing agents.

Dangerous decomposition products: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Sulfur oxides.

Hazardous Polymerisation: Will not occur.

Additional Information: Non-compatible with different metals.

11. Toxicological information

Acute toxicity: No data available

Irritation and corrosion: No data available

Sensitisation: No data available.

Chronic exposure:

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.

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.

Inhalation:	May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.
Skin contact:	May cause irritation of skin.
Skin Absorption:	May be harmful if absorbed through the skin.
Eye contact:	May cause irritation of eyes.
Ingestion:	May be harmful if swallowed.

12. Ecological Information

Biological Degradation

No data available

Ecotoxicity effects

No data available

General notes:

If handled accordingly no ecological problems are expected.

13. Disposal considerations

Product:

Recommendation: Must not be disposed together with household garbage. Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleaning agents: Water, if necessary together with cleansing agents.

14. Transport information

Land transport ADR/RID (cross border)

ADR/RID class: Non-hazardous for road transport.

Maritime transport IMDG:

IMDG Class: Non-hazardous for sea transport.

Marine pollutant: No

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: Non-hazardous for air transport.

15. Regulatory information

Labelling according to EU guidelines:

Further information: The product does not need to be labelled in accordance with EC directives or respective national laws.

National Regulations: Germany

WKG: 1 Self-Classification

Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

16. Other information

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. Genaxxon BioScience GmbH, shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.