

MATERIAL SAFETY DATA SHEET

Tris-Glycine Buffer (TG), pH 8.3

1. Product and Company Information

Product Name: Tris Glycine Buffer (TG), pH 8.3 Electrophoresis running buffer
Product Number A12-9122, A12-9123
Manufacturer: Medicago AB
Danmark Berga
755 98 Uppsala
Sweden
Phone +46 (0) 18 56 11 80
Fax +46 (0) 18 56 11 88

2. Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT

Not hazardous according to Directive 67/548/EEC.



3. Composition/Information on Ingredients

Product Name		CAS #	EC #	
TRIS GLYCINE BUFFER POWDER			None	None
Ingredient name:	Percent	CAS no.:	EC no.:	Annex I Index Number
WATER	>=82	7732-18-5	None	None
GLYCINE	>=14.4	56-40-6	None	None
TRIS (HYDROXYMETHYL) AMINOMETHANE FREE BASE	>=3 <=3.1	77-86-1 77-86-1	None None	None None
Symbols: Xi R-Phrases: 36/37/38 Irritating to eyes, respiratory system and skin				
SODIUM DODECYL SULFATE	0.1	151-21-3	None	None
Symbols: Xn R-Phrases: 21/22-36/37/38 Harmful in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin.				

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.

AFTER EYE CONTACT

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

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

PROCEDURE (S) OF PERSONAL PRECAUTION (S)

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

METHODS FOR CLEANING UP

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

7. Handling and Storage

HANDLING

Directions for Safe Handling: Do not breathe vapor. 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

Mechanical exhaust required. Safety shower and eye bath.

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 CEN (EU). 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.

Hand protection: Compatible chemical-resistant gloves.

Eye protection: Chemical safety goggles.

9. Physical and Chemical Properties

Appearance	Solid white powder
pH	8.3 at 25°C
Molecular Weight	N/A
BP/BP Range	N/A
MP/MP Range	N/A
Freezing Point	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.

Materials to Avoid: Oxidizing agents, Bases.

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

Not hazardous according to Directive 67/548/EEC.

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.

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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.