



MATERIAL SAFETY DATA SHEET

According to EC Directive 91/155 EC

Date: 17/03/03

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

1.1 Product Details:

Trade Name: Tris-Glycine Buffer

Catalog Number: BIO-37106

1.2 Company Details:

Manufacturer/ Supplier: Bioline
16 The Edge Business Centre
Humber Road
London
NW2 6EW
Tel: +44 (0)20 8830 5300
Fax: +44 (0)20 8452 2822

Further Information Obtainable from:
Technical Services
Details as above

1.3 Emergency Details:

24-Hour Contact in case of emergency:
Vergiftungs-Informations-Zentrale
Mathilden Strasse 1
79106 Freiburg
GERMANY
Tel: +49 (0) 761 19240.

2. Composition/ Information on Ingredients

2.1 Chemical Characterization:

Tris-Glycine Buffer

	CAS #	EINECS #	EU Classification
Glycine	56-40-6	N/A	N/A
Water	7732-18-5	N/A	N/A
Tris	77-86-1	N/A	N/A
Sodium dodecyl sulfate	151-21-3	N/A	N/A

Symbol: Xi, Xn
R-Phrases: 36/37/38, 21/22-36

3. Hazards Identification

3.1 Precautionary Statements:

Health Effects:

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

4. First Aid Measures

4.1 After Inhalation:

Remove victim to fresh air. Give oxygen if breathing becomes difficult. Should breathing stop, give artificial respiration. Get medical aid if cough or other symptoms appear.

4.2 After Swallowing:

Immediately flush mouth with plenty of water. Get medical attention.

4.3 After Contact with Eyes:

Immediately flush eyes with copious amounts of water for at least 15 minutes. Consult a doctor if irritation persists.

4.4 After Contact with Skin:

Wash contaminated areas with large volumes of soap and water.

Repeated or prolonged exposure is not known to aggravate medical condition.

5. Fire Fighting Measures

5.1 Suitable Extinguishing Media:

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

5.2 Fire Fighting Protective Measures:

Wear self-contained breathing apparatus MSHA/NIOSH (approved or equivalent), and protective garments.

5.3 Special Exposure Hazards:

Emits toxic fumes under fire conditions.

6. Accidental Release Measures

6.1 Personal Precautions:

Wear self-contained breathing apparatus, MSHA/NIOSH (approved or equivalent), chemical safety goggles, rubber boots, and heavy rubber gloves.

6.2 Clean-up Measures:

Sweep up or absorb material on sand or vermiculite, then place a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface.

7. Handling and Storage

7.1 Handling:

User Exposure: Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

7.2 Storage:

Store tightly closed at room temperature.

8. Exposure Controls/ Personal Protection

8.1 Engineering Measures:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

8.2 Personal Protection:

Wear appropriate NIOSH / MSHA-Approved respirator, chemical resistant gloves, chemical safety goggles.

Hygiene Practices: Avoid contact with skin or eyes. Do not place in mouth. Do not eat, drink or smoke when handling this product. Upon completion of the use of this product, dispose of protective gloves safely and wash hands thoroughly with soap and water.

9. Physical and Chemical Properties

Appearance: Powder

10. Stability and Reactivity

10.1 Stability

Product is stable under normal handling and storage conditions.

Materials to Avoid: Oxidizing agents, bases

Hazardous, combustion or decomposition products: Unknown

11. Toxicological Information

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 severe 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

12.1 Environmental Effects

Environmental Fate/Stability: Unknown

Effects on Plants or Animals: Unknown

12.2 Water Hazard

Unknown

13. Disposal Considerations

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

No information available

IMDG

No information available

IATA

No information available

15. Regulatory Information

15.1 Labelling According to EU Guidelines

European Labeling in Accordance with EC Directives

Hazard Symbols: Xi – irritant, Xn - harmful

Risk Phrases: R 36/37/38 Irritating to eyes, respiratory system and skin, R 21/22 Harmful in contact with skin and if swallowed

Safety Phrases: S26 - In case of contact with eyes, immediately flush with plenty of water and seek medical advice.

S36 - Wear suitable protective clothing.

16. Other Information

The information provided in this Material Safety Data Sheet (MSDS) is accurate to the best of our present knowledge. However, this shall not constitute a guarantee for any specific product features. All substances and preparations may present unknown hazards and should be used with caution. Bioline shall not be held liable for any damage resulting from the handling of or contact with the above product. The information supplied in this MSDS shall not establish a legally valid contractual relationship.