



1. PRODUCT/PREPARATION/COMPANY

Trade name: **BIOTOOLS Certamp Buffer**

Company: Biotoools, B & M Labs, S.A.
Valle de Tobalina – 52 – Nave 39
28021 Madrid
SPAIN
Tel: + 34 91 710 00 74
Fax: + 34 91 505 31 18

Product Number: 20.045

Emergency number: please contact Biotoools distributor in your country. Spain only: 91 562 04 20

2. COMPOSITION OF THE PRODUCT/INFORMATION ON INGREDIENTS

Chemical characterisation: Solutions in water. Volume of product package varies: 140 ml- 700 ml.

Active ingredients:

CAS-No	EC no	Name	Contents	Danger ¹	Risks
7732-18-5	231-791-2	Water	< 80%	None	None
7783-20-2	231-984-1	Ammonium sulfate	≈0,7%	None	None
77-86-1	201-064-4	Tris hydroxymethyl aminomethane (Tris)	≈3,7%	Xi	R 36/38
56-81-5	200-289-5	Glycerol	18%	None	None
9005-64-5	NA	Tween 20	0,1%	None	None
7647-01-0	231-595-7	Hydrochloric acid	<0,01%	C Xi	R 34-37 S 26-36/37/39-45

3. HAZARDS IDENTIFICATION

Primary routes of entry

Skin or eye contact from splashes.

Ingestion

Harmful if swallowed. May cause irritation to the gastrointestinal tract.

Skin contact

May cause irritation

Eye contact

Irritating

Evidence for reproductive toxicity, carcinogenicity and mutagenicity

No data available

Hazard Ingredients

Tris hydroxymethyl aminomethane (Tris)	Irritating to eyes and skin.
Hydrochloric acid	Causes burns. Irritating to respiratory system. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately. (Show the label where possible).

¹ Dangers and risks on active ingredients are applicable to pure ingredients. Amounts present in the specified product are under threshold levels as per Directive 67/548/EC and other European Legislation in force.



4. FIRST AID MEASURES

Skin contact

Wash skin with water and soap and rinse thoroughly. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention.

Eye contact

Rinse opened eyes for at least 15 min with copious amounts of water. Check for and remove any contact lenses. Call a physician.

Ingestion

Do NOT induce vomiting unless directed to do so by medical personnel. Rinse mouth with plenty of water. Call a physician. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

Inhalation

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Water spray, carbon dioxide, dry chemical powder or alcohol- resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Fire and explosion hazards

Emits irritant or toxic fumes under fire conditions.

Protective equipment

Wear self-contained breathing apparatus and protective clothing for fire-fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear protective gloves and goggles.

Environmental precautions

Product must not enter ground, sewerage system or water course

Measures for cleaning/collecting

Collect spilled liquid with liquid-binding material or inert absorbent and place it in a container for disposal. Wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Handling

Always keep the containers tightly closed. Observe good laboratory technique when handling.

Storage

Store in the original container, at $-15\pm 8^{\circ}\text{C}$.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure limits

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace

Eye protection

Wear goggles

Hand protection

Wear protective gloves

Skin protection

Wear labcoat

Hygiene measures

General industrial hygiene practice.

Breathing equipment

Not required



9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Solutions in water

Colour: Colorless

Odour: Odorless

Boiling point: no data available.

Flash point: no data available

Explosive properties: no data available

Vapor pressure: no data available

pH: 9

10. STABILITY AND REACTIVITY

Stability

Stable under normal handling and storage conditions

Decomposition

No data available

Conditions to avoid

Avoid strong oxidising agents, fire.

11. TOXICOLOGICAL INFORMATION

Inhalation

May be harmful if inhaled. May cause respiratory tract irritation.

Skin

May be harmful if absorbed through skin. May cause skin irritation.

Eyes

May cause eye irritation.

Ingestion

May be harmful if swallowed.

Acute toxicity

Ammonium sulfate: oral; rat; LD50: 2840 mg/kg

Tris hydroxymethyl aminomethane (Tris): oral; rat; LD50: 5900 mg/kg

Glycerol: oral; rat; LD50: 12600 mg/kg

Tween 20: oral; rat; LD50: 37000 mg/kg

Hydrochloric acid: inhalative, rat: 3124 ppm(V)/1 h (pure substance)

Chronic exposure

Products may cause allergic reactions in certain sensitive individuals

Sensitization

No data available

12. ECOLOGICAL INFORMATION

Data not yet available

13. DISPOSAL CONSIDERATIONS

Controlled disposal in waste system. Product disposal (leftovers or residues resulting from normal use) does not pose any serious hazards in the adequate proportion.

The product and packaging should be disposed of in accordance with the instructions of the local authorities.

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

DANGERS AND RISKS ON ACTIVE INGREDIENTS ARE APPLICABLE TO PURE INGREDIENTS. AMOUNTS PRESENT IN THE SPECIFIED PRODUCT ARE UNDER THRESHOLD LEVELS AS PER DIRECTIVE 67/548/EC AND OTHER EUROPEAN LEGISLATION IN FORCE.

Certamp Buffer	
Indication of Danger	-
R phrases	R36/38 Irritating to eyes and skin.
S Phrases	S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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 regards to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Biotools, B & M Labs, S.A. shall not be held liable for any damage resulting from handling or from contact with the above product.

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