Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



1. Identification of the substance and of the company

Product name <u>TBE Electrophoresis Buffer (Tris Borate, EDTA), 20X conc.</u>

Catalog Number TBE-50, TBE-1000
Supplier Information Bento Bioworks Ltd

5 Hancock Road London, E3 3DA United Kingdom

Emergency telephone number Within the USA & Canada: 1-800-424-9300

(CHEMTREC) Outside the USA & Canada: 1-703-741-5970

2. Hazards identification

Classification of the substance or mixture

According to Regulation (EC) No. 1272/2008 (EU-GHS/CLP)

Repr. 1B, H360FD

Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram



Signal word Danger

Hazard statement(s) H360FD May damage fertility. May damage the unborn child.

Precautionary statement(s)

P201 Obtain special instructions before use.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P308 + 313 IF exposed or concerned: Get medical advice/attention.

Other hazards Not applicable

3. Composition / information on ingredients

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component Boric acid (H3BO3)

CAS number 10043-35-3
EIN / ECS number 233-139-2
Weight % 5.5 - 10

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REACH registration number 01-2119486683-25-XXXX

Classification Repr. 1B, H360FD

4. First aid measures

If inhaled If breathed in, move person into fresh air. If not breathing give

artificial respiration.

If swallowedNever give anything by mouth to an unconscious person. Rinse mouth

with water.

In case of skin contact Wash off with soap and plenty of water.

In case of eye contact Flush eyes with water as a precaution.

Notes to physician Treat symptomatically.

Most important symptoms and effects, both acute and delayed

H360 - May damage fertility or the unborn child

Indication of any immediate medical attention

Get medical advice/attention if you feel unwell.

5. Firefighting measures

Extinguishing media Dry chemical, CO2, water spray or alcohol resistant foam.

Special hazards Not applicable.

Firefighting precautions Wear self-contained breathing apparatus and protective clothing.

6. Accidental release measures

Personal precautions Avoid contact with skin, eyes or clothing.

Environmental precautions Avoid discharge into drains and waterways whenever possible.

Methods for cleaning up Soak up with inert absorbent material (sand, diatomite, acid binders,

universal binders, sawdust).

7. Handling and storage

Precautions for safe handling Provide appropriate exhaust ventilation at places where dust is

formed.

Conditions for safe storage Store at ambient temperature in a dry, cool place.

Specific end use(s) For research and educational use only.

8. Exposure controls/personal protection

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Respiratory Protection Respiratory protection is not required.

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Hand Protection For prolonged or repeated contact use protective gloves.

Eye Protection Safety glasses.

Skin and Body Protection Wear laboratory coat for body protection.

Hygiene Measures Handle in accordance with good safety practice.

9. Physical and chemical properties

Appearance Colourless liquid

Odour Not defined pH value 7.0 - 7.5

Boiling point Undetermined

Melting point Undetermined

Flash point Not applicable

Autoignition Not applicable

Explosion hazard Not applicable

Vapour pressure No information available Relative density No information available

Water solubility Soluble

10. Stability and reactivity

Chemical stability Stable under normal conditions.

Conditions to avoid None, if used according to specifications.

Incompatible materials Strong oxidizing agents, acids and alkali.

Hazardous decomposition Products formed under fire conditions: carbon oxides, nitrogen oxides

(NOx), oxides of phosphorus, lithium oxides.

11. Toxicological information

Chemical Name Oral LD50 Dermal LD50 Inhalation LC50

Boric acid (H3BO3) = 2660 mg/kg (Rat) No data available (Rat) >0.16 mg/L(Rat) >= 3765 mg/kg >=2120 mg/m3(Rat)

Routes of Exposure

Acute toxicity

Data insufficient for classification

Irritation and corrosion

Data insufficient for classification

Sensitisation

Data insufficient for classification

Chronic exposure

Data insufficient for classification

Exposure Symptoms Dermatitis

Potential Health Effects

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

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

Eyes May cause eye irritation.

Ingestion May be harmful if swallowed.

Target Organs Liver, Kidney

12. Ecological information

Ecotoxicity No information available.

Degradability No information available.

Accumulation No information available.

Mobility No information available.

13. Disposal considerations

14. Transport information

ADR/RID/ICAO/IATA class This substance is considered to be non-hazardous for transport.

15. Regulatory information

Labelling according to EU This product is not subject to identification regulations under EU

guidelines Directives and the Ordinance on Hazardous Materials.

16. Other Information

This information is based on available knowledge and shall be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution.

This shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Bento Bioworks Ltd is not held liable for any damage resulting from handling or from contact with the above mentioned products.

References

ECHA https://echa.europa.eu/

TOXNET https://www.nlm.nih.gov/toxnet/index.html

eChemPortal https://www.echemportal.org/