

TBE Buffer 10X**TBE****SECTION 1 Identification of the Substance/Mixture and of the Company/Undertaking****1.1. Product identifier**

Identification of the product : Mixture
Product code : TBE
Trade name : TBE Buffer 10X

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use : For research purposes only

1.3. Details of the supplier of the safety data sheet

Company identification : **Formedium Ltd.**
Unit 1B Hunstanton Commercial Park Norfolk PE365JQ
Tel: +44(0)1485 609069
Fax: +44(0)1485 600510
E-mail:info@formedium.com

1.4. Emergency telephone number

Emergency phone nr : Tel: +44(0)1485 609069 (local time : 9.00 to 17.00)
National Poison Information Centre :Europe UK : +44 0845 4647 (this service is only available to health professionals)
See www.toxbase.org for a local poison centre

SECTION 2 Hazards Identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) 1272/2008**

Physical hazards: Not classified
Health hazards: Reproductive toxicity, Category 1B
Environmental hazards: Not classified

**Signal Word: DANGER**

Hazard Statements: H360FD – May damage fertility. May damage the unborn child.

2.2. Label elements**Labelling according to Regulation EC 1272/2008**

Hazard Statements: H360FD – May damage fertility. May damage the unborn child.

Precautionary Statements: P308 + P313 – IF exposed or concerned: Get medical advice/attention.
P201 – Obtain special instructions before use.
P280 – Wear protective gloves/protective clothing/eye protection/face protection
P260 – Do not breathe dust/fume/gas/mist/vapours/spray
P202 – Do not handle until all safety precautions have been read and understood

Principle Routes of Exposure / Potential Health Effects

Eyes Irritating to eyes.
Skin Irritating to skin.
Inhalation Irritating to respiratory system.
Ingestion May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting or diarrhoea.

Specific Effects

Carcinogenic effects None
Mutagenic effects None
Reproductive toxicity May cause adverse reproductive effects – such as birth defects, miscarriages or infertility.
Sensitisation None
Target Organ Effects None under normal conditions.

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TBE Buffer 10X**TBE****SECTION 3 Composition / Information on Ingredients****Chemical characterization** : Mixtures

Component:	CAS No.	EINECS	Classification
Boric acid	10043-35-3	233-139-2	Repr. 1B, H360; Skin irrit. 2, H315; Eye irrit. 2, H319; STOT SE 3, H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4 First Aid Measures**4.1. Description of first aid measures**

General information : Notes to physician :- Treat symptomatically.

Inhalation : Remove to fresh air. If not breathing, give artificial respiration. Call a doctor or poison centre immediately.

Skin contact : Wash off with plenty of water for at least 15 minutes. Take off all contaminated clothing and wash it before re-use. Immediate medical attention is required.

Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
Remove contact lenses, if present and easy to do.

Ingestion : Call a doctor or poison centre immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.

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SECTION 5 Fire-fighting Measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Carbon Dioxide (CO₂). Foam. Dry chemical.

5.2. Special hazards arising from the substance or mixture

Not known.

5.3. Advice for fire-fighters

Wear self-contained breathing apparatus and chemical suit.

SECTION 6 Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.
Always wear recommended Personal Protective Equipment.

6.2. Environmental precautions

No special environmental precautions required.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material

6.4. Reference to other sections

Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

See Section 12 for more information.

SECTION 7 Handling and Storage

7.1. Precautions for safe handling

Use personal protective equipment as required.
Avoid contact with skin, eyes and clothing.

7.2. Conditions for safe storage including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers. Keep containers tightly closed.

Recommended storage temperature:

Room temperature.
Keep away from light.

7.3. Specific end use(s)

For research use only.

TBE Buffer 10X**TBE****SECTION 8 Exposure controls / Personal protection****8.1. Control parameters****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

8.2. Exposure controls**Engineering measures**

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment**Eye /face protection**

Safety glasses with eye-shields.

Skin and body protection

Wear suitable protective clothing.

Respiratory protection

In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Skin protection

Handle with gloves. Gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN 374. The gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with the product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Control of environmental exposure

Prevent product from entering drains. Do not allow material to contaminate ground water system.

TBE Buffer 10X**TBE****SECTION 9 Physical and Chemical Properties****9.1. Information on basic physical and chemical properties**

Form	: Liquid
Colour	: Colourless
Odour	: Odourless
Odour Threshold	: No information available
pH	: No information available
Melting point	: No information available.
Boiling point	: No information available.
Flash point	: No information available.
Evaporation rate	: No information available.
Flammability (solid, gas)	: No information available.
Lower explosion limit	: No information available.
Upper explosion limit	: No information available.
Vapour pressure	: No information available.
Relative vapour density	: No information available.
Density	: 1.07 g/cm ³ at 20 °C
Relative density	: No information available.
Water solubility	: No information available.
Partition coefficient: n-octanol/water	: No information available.
Auto-ignition temperature	: No information available.
Decomposition temperature	: No information available.
Viscosity, dynamic	: No information available.
Explosive properties	: Not classified as explosive.
Oxidizing properties	: None
<u>9.2 Other Information</u>	
Other data	: None

TBE Buffer 10X**TBE****SECTION 10 Stability and Reactivity****10.1. Reactivity**

None known.

10.2. Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3. Possibility of hazardous reactions

Hazardous reaction has not been reported.

10.4. Conditions to avoid

None under normal processing.

10.5. Incompatible materials

No dangerous reaction known under conditions of normal use.

10.6. Hazardous decomposition products

None under normal use conditions.

SECTION 11 Toxicological Information**11.1. Information on toxicological effects****Acute toxicity:**

Component:	CAS No.	Oral (LD50)
Boric acid	10043-35-3	2660 mg/Kg (Rat)

Irritation Conclusive but not sufficient for classification.

Corrosivity Conclusive but not sufficient for classification.

Sensitisation Conclusive but not sufficient for classification.

Additional toxicological information

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handles according to specifications the product does not have any harmful effects to our experience and the information provided to us.

TBE Buffer 10X**TBE****SECTION 12 Ecological Information****12.1. Toxicity**

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

No information available.

SECTION 13 Disposal considerations**13.1. Waste treatment methods**

The generation of waste should be avoided or minimized where possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in accordance with approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national / federal regulations.

SECTION 13 Transport Information**14.1. UN Number**

Not classified as dangerous in the meaning of transport regulations

14.2. Proper shipping name

Not applicable

14.3. Transport Hazard Classification

Not applicable

14.4. Packing Group

Not applicable

TBE Buffer 10X**TBE****SECTION 14 Transport Information (continued)****14.5. Environmental Hazards**

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Bulk Transport – annex II Marpol 73/78 - IBC

Not applicable

SECTION 15 Regulatory Information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Ensure all national / local regulations are observed. See label for full details, information.
This safety datasheet complies with the requirements of Regulation (EU) No. 2015/830.

Substances of very high concern (SVHC) according to REACH, Article 57**Boric acid** CAS No.: 10043-35-3**15.2. Chemical Safety Assessment**

Not established.

SECTION 16 Other Information**Further 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. Formedium Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.

Relevant phrases

H360FD – May damage fertility. May damage the unborn child.

Revision

Complete SDS revision

End of document