

# SAFETY DATA SHEET (SDS)


## TBE premixed buffer

Issue date: 14-08-2020

### Section 1: Product Identifier and Chemical Identity

Product Identifier	
Product Name:	TBE premixed buffer, 20x concentration
Product Codes:	MC44.12
Other means of identification:	
Chemical formula, alternative names:	Tris borate EDTA buffer solution (20x)
Recommended use of the chemical and restrictions on use	
Recommended Use:	Laboratory chemical diluted and used in gel electrophoresis
Suppliers name, address and phone number	
Suppliers Name:	Southern Biological
Suppliers ABN:	94 630 703 810
Suppliers Address:	1/44 Rushdale Street Knoxfield Victoria 3180 Australia
Suppliers Phone No.:	1300 138 561
Suppliers Fax No.:	+613 9753 3896
Emergency Phone number (BH)	1300 138 561

### Section 2: Hazard Identification

Classification of the Hazardous Chemical	
Hazard Category	Reproductive Toxicity Category 1B
Label elements	
Hazard Pictograms:	
Signal Word:	Danger
Hazard Statements:	May damage fertility or the unborn child.
Precautionary Statements:	Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not ingest. Do not handle until all safety precautions have been read and understood. Should not be handled by pregnant women. Women of reproductive age should avoid handling the chemical.

Other Hazards	
Results of PBT and vPvB assessment:	PBT: Not applicable VPvB: Not applicable

### Section 3: Composition/information on ingredients

Ingredients			
Name	CAS	Proportion	Hazard Class
Tris base	77-86-1	10 – <30%	None
Boric acid	10043-35-3	10 - <30%	Reproductive Toxicity Category 1B
EDTA	6381-92-6	<10%	Solid: Serious Eye Irritation Category 2A
Ingredients not deemed to be hazardous		To 100%	None

### Section 4: First Aid Measures

General Information	
After Inhalation:	Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms, call a doctor.
After skin contact:	Wash with water and soap and rinse thoroughly. If skin irritation occurs, seek medical advice.
After eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
After swallowing:	Do not induce vomiting. Wash out mouth with water. Obtain emergency medical attention. Call a POISON CENTRE or doctor if you feel unwell.
Information for doctor:	
Most important symptoms and effects both acute and delayed:	Treat symptomatically.
Indications of any immediate medical attention and special treatment needed	No further relevant information available.

### Section 5: Firefighting measures

Extinguishing media	
Suitable extinguishing agents:	Waterspray, alcohol resistant foam, dry chemical or carbon dioxide
Special hazards arising for the substance or mixture:	Carbon oxides, Nitrogen oxides (NOx), Borane/boron oxides.
Advice for firefighters	
Protective equipment:	Do not enter the fire area without proper protective equipment including respiratory equipment.

### Section 6: Accidental release measures

General Information	
Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas
Environmental precautions:	Prevent entry to sewers and public waters. Avoid release to the environment. Notify authorities if spill to sewers or public waters. Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
Methods and material for containment and cleaning up:	Dispose of contaminating material as waste according to item 13. Ensure adequate ventilation.
Reference to other sections:	See Section 7 for information on safe handling. See Section 8 for information on protective equipment. See Section 13 for disposal information.

## Section 7: Handling and Storage

General Information	
Precautions for safe handling:	Ensure good ventilation/exhaustion at the workplace. Do not eat drink or smoke when using this product. Wash contaminated clothing before reuse.
Information about fire – and explosion protection:	No special measures required.
Conditions for safe storage, including any incompatibilities.	
Storage:	Store in cool dry area out of direct sunlight and incompatible materials. Keep containers closed when not in use. Store in suitably labelled containers.
Requirements to be met by storerooms and receptacles:	No special requirements.
Information about storage in one common storage facility:	Not required.
Further information about storage conditions:	Keep container tightly sealed. Keep out of direct sunlight.
Specific end use(s):	No further relevant information available.

## Section 8: Exposure controls/personal protection.

General information	
Additional information about design of technical facilities:	No further data: see section 7
Control parameters:	
Ingredients with limit values that require monitoring at the workplace: none	
Additional information	The lists valid during the making were used as basis.
Exposure Controls:	
General protective and hygienic measures:	Use only in systems, processes and procedures in which effective ventilation has been provided. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with eyes.

Respiratory protection:	In case of significant exposure use respiratory filter device. Not normally required.
Clothing / Foot-wear and equipment	No special requirements.
Protection of hands:	PVC or rubber gloves
Eye protection:	Tightly sealed goggles
Skin protection:	Laboratory Coat

## Section 9: Physical and chemical properties

<b>Appearance:</b>	
Form:	Liquid
Colour:	Clear, may "gel" in cold conditions
Odour:	Not determined
Odour Threshold:	Not determined
pH value:	Not determined
<b>Change in Condition:</b>	
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not determined
Flash point:	Not determined
Flammability (solid / gaseous)	Not determined
<b>Ignition Temperature</b>	
Decomposition temperature:	Not determined
Self-igniting:	Not determined
Danger of explosion:	Not determined
<b>Explosion limits</b>	
Lower:	Not determined
Upper:	Not determined
Vapour pressure:	Not determined
Density:	Not determined
<b>General Info</b>	
Relative density:	Not determined
Vapour density:	Not determined
Evaporation rate:	Not determined
Solubility in/ Miscibility with water:	Soluble
Partition coefficient (n-octanol/water):	Not determined
Viscosity:	Not determined
Other information:	Not determined

## Section 10: Stability and reactivity

Reactivity	
General	No further relevant information available.
Chemical Stability	
Thermal decomposition / conditions to be avoided:	No decomposition if used according to specifications.
Possibility of hazardous reactions:	No dangerous reactions known.
Conditions to avoid:	No data available
Incompatible materials:	Strong oxidising agents, Potassium, Acid anhydrides
Hazardous decomposition products:	No data available

## Section 11: Toxicological information

Information on toxicological effects	
General	Toxicity reported for borates in humans: ingestion or absorption may cause nausea, vomiting, diarrhoea, abdominal cramps, and erythematous lesions on the skin and mucous membranes. Other symptoms include: circulatory collapse, tachycardia, cyanosis, delirium, convulsions and coma. Death has been reported to infants from less than 5 grams and in adults from 5 to 20 grams. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Liver -Irregularities -Based on Human Evidence (Boric Acid)
Primary irritant effect:	
Inhalation:	Not classified
Skin contact:	Not classified
Eye exposure:	Not classified
Ingestion:	Not classified
Chronic Toxicity:	
General	Boric acid: Presumed human reproductive toxicant.

## Section 12. Ecological information

Toxicity	
Aquatic toxicity:	No data available

Persistence and degradability:	No further relevant information available.
Behaviour in environmental systems	
Bio-accumulative potential:	No further relevant information available.
Mobility in soil:	No further relevant information available.
Additional ecological information	
Results of PBT and vPvB assessment	PBT: Not applicable vPvB: Not applicable
Other adverse effects:	No further relevant information available.

### Section 13. Ecological information

Waste treatment methods	
Recommendation	Prevent this material from entering waterways, drains and sewers. Comply with official regulations. Offer surplus and non-recyclable solutions to a licenced disposal company.
Uncleaned packaging:	
Recommendation:	Disposal must be made according to official regulations.
Recommended cleansing agents:	Water, if necessary, together with cleansing agents.

### Section 14. Transport information

General	Not listed as a hazardous material.
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### Section 15. Regulatory Information

Safety health and environmental regulations/legislation specific for the substance or mixture	
Australian Inventory of Chemical Substances:	Substances are listed.
Standard for the Uniform Scheduling of Medicines and Poisons	S6
GHS label elements	None
Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.

### Section 16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.