

# SAFETY DATA SHEET

## SECTION 1. - - - - - PRODUCT AND COMPANY IDENTIFICATION - - - - - -

Product Name TBE buffer (Tris-Borate-EDTA), 10x Solution

Product Code(s) A00268

Recommended Use For Laboratory Research Use Only

Not for Human or Animal Drug Use

**Supplier** Bio Basic Inc.

Address 20 Konrad Crescent, Markham, Ontario,

Canada, L3R 8T4

 Telephone
 (905) 474 4493

 Fax
 (905) 474 5794

 For Chemical Emergency Phone#
 (416) 995 9730

#### SECTION 2. ----- HAZARDS IDENTIFICATION -----

#### Classification of the substance or mixture

## GHS Classification in accordance with Hazardous Products Regulations (HPR) (SOR/2015-17)

Reproductive toxicity (Category 1B), H360

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

## GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)

H360 May damage fertility or the unborn child.

Precautionary statement(s)

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and

understood.

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

protection.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

## SECTION 3. - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - -

Chemical Name	EC No.	CAS-No	Weight %
Boric acid	233-139-2	10043-35-3	5-10
Tris	201-064-4	77-86-1	10-15
EDTA	205-358-3	6381-92-6	0-1
Water	231-791-2	7732-18-5	80-85





#### SECTION 4. ----- FIRST-AID MEASURES-----

#### General advice

Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described the labelling (see section 2) and/or in section 11

# Indication of any immediate medical attention and special treatment needed

No data available

### SECTION 5. ----- FIRE FIGHTING MEASURES -----

## Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NOx), Borane/boron oxides

## Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

## **Further information**

No data available

# SECTION 6. ----- ACCIDENTAL RELEASE MEASURES-----

## 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.

For personal protection see section 8.

## **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

#### Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

## Reference to other sections

For disposal see section 13.

#### SECTION 7. ----- HANDLING AND STORAGE-----

## Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see section 2.





## Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3/toxichazardous materials or hazardous materials causing chronic effects

#### Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated

## SECTION 8. - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION - - - -

## Components with workplace control parameters

Components	CAS-No.	Value	Control parameters	Basis
Boric acid	10043-35-3	TWA	2 mg/m3	Canada. British Columbia OEL
Remarks				
		STEL	6.000000 mg/m3	Canada. British Columbia OEL
		TWA	2.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		STEL	6.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)

## **Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## Personal protective equipment

## Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

## Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact Material:

Nitrile rubber

Minimum layer thickness: 0.11 mm Break

through time: 480 min

Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de,

test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.





#### **Body Protection**

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## SECTION 9. ----- PHYSICAL AND CHEMICAL PROPERTIES -----

#### **Appearance**

liquid Form

Colour No data available

## Safety data

рΗ No data available Melting No data available

point/freezing point

**Boiling point** No data available Flash point No data available Ignition temperature No data available Auto-ignition

temperature

No data available

Lower explosion limit No data available Upper explosion limit No data available No data available

Vapour pressure Density No data available Water solubility No data available Partition coefficient: No data available

n-octanol/water

Relative vapour

density

No data available

No data available Odour Odour Threshold No data available Evaporation rate No data available

## SECTION 10. ------STABILITY AND REACTIVITY -----

#### Reactivity

No data available

## **Chemical stability**

Stable under recommended storage conditions.

Possibility of hazardous reactions





No data available

## **Conditions to avoid**

No data available

#### Incompatible materials

Strong oxidizing agents, Potassium, Acid anhydrides

#### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Borane/boron oxides

Other decomposition products - No data available In the event of fire: see section 5

## SECTION 11. ----- TOXICOLOGICAL INFORMATION ----

## **Acute toxicity**

No data available Inhalation: No data available Dermal: No data available No data available

#### Skin corrosion/irritation

No data available

## Serious eye damage/eye irritation

No data available

## Respiratory or skin sensitisation

No data available

## Germ cell mutagenicity

No data available

## Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

## Reproductive toxicity

No data available

## Specific target organ toxicity - single exposure

No data available

## Specific target organ toxicity - repeated exposure

No data available

## **Aspiration hazard**

No data available

## **Additional Information**

RTECS: Not available

Toxicity reported for borates in humans: ingestion or absorption may cause nausea, vomiting, diarrhea, abdominal cramps, anderythematous lesions on the skin and mucous membranes. Other symptoms include: circulatory collapse, tachycardia, cyanosis, delirium, convulsions, and coma. Death has been reported to occur in 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.

SECTION 12. ----- ECOLOGICAL INFORMATION -----

**Toxicity** 

No data available





#### Persistence and degradability

No data available

## **Bioaccumulative potential**

No data available

## Mobility in soil

No data available

#### Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### Other adverse effects

No data available

### SECTION 13. ----- DISPOSAL CONSIDERATIONS -----

#### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. 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.

## Contaminated packaging

Dispose of as unused product.

## SECTION 14. ----- TRANSPORT INFORMATION -----

#### TDG (Canada)

Not dangerous goods

## IMDG

Not dangerous goods

#### ΙΔΤΔ

Not dangerous goods

## SECTION 15. ----- REGULATORY INFORMATION -----

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

## SECTION 16. ----- OTHER INFORMATION-----

Further information: no limited for paper copy, just for internal uses.

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

#### **Disclaimer**

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

Issuing Date: 16-Mar-2021

**End of SDS** 

