# SAFETY DATA SHEET

[Required under safety and health regulations for shipping and handling]

Version: 2022
Date Updated: December 31, 2022

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

| | |
|---|---|
| **Product Name** | TBS buffer (Tris Buffered Saline), 20x Solution |
| **Product Code(s)** | UA0045 |
| **Recommended Use** | For Laboratory Research Use Only<br>Not for Human or Animal Drug Use |
| **Supplier** | Bio Basic Asia Pacific Pte Ltd. |
| **Address** | 2 International Business Park Road<br>Strategy #01-04, Singapore 609930 |
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## SECTION 2. - - - - - - - - - - HAZARDS IDENTIFICATION - - - - - - - - -

### Emergency Overview

**WHMIS Classification**
Not WHMIS controlled.
Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

### HMIS Classification

| | |
|---|---|
| **Health Hazard:** | 1 |
| **Flammability:** | 0 |
| **Physical Hazards:** | 0 |

### Potential Health Effects

| | |
|---|---|
| **Inhalation** | May be harmful if inhaled. Causes 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. |

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

| Chemical Name | EC No. | CAS-No | Weight % |
|---|---|---|---|
| Water | 231-791-2 | 7732-18-5 | 64-75 |
| Tris | 201-064-4 | 77-86-1 | 10-15 |
| Sodium chloride | 231-598-3 | 7647-14-5 | 15-20 |
| Potassium chloride | 231-211-8 | 7447-40-7 | 0-1 |

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

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

**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.

**If swallowed**



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

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

**Conditions of flammability**
Not flammable or combustible.

**Suitable extinguishing media**
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for firefighters**
Wear self-contained breathing apparatus for firefighting if necessary.

**Hazardous combustion products**

**Explosion data - sensitivity to mechanical impact**
No data available

**Explosion data - sensitivity to static discharge**
No data available

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

**Personal precautions, protective equipment and emergency procedures**
Avoid breathing vapours, mist or gas.

**Environmental precautions**
Do not let product enter drains.

**Methods and materials for containment and cleaning up**
Keep in suitable, closed containers for disposal.

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

**Precautions for safe handling**
Normal measures for preventive fire protection.

**Conditions for safe storage, including any incompatibilities**
Keep container tightly closed in a dry and well-ventilated place.

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

**Personal protective equipment**

**Respiratory protection**
Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand 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.

**Eye Protection**
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin and 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.



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**Hygiene measures**
General industrial hygiene practice.

**Specific engineering controls**
Use mechanical exhaust or laboratory fumehood to avoid exposure.

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

**Information on basic physical and chemical properties**

| | |
|---|---|
| Appearance | Form: liquid |
| Odour | No data available |
| Odour Threshold | No data available |
| pH | 6.0 - 8.0 at 25 °C (77 °F) |
| Melting point/freezing point | No data available |
| Initial boiling point and boiling range | No data available |
| Flash point | No data available |
| Evaporation rate | No data available |
| Upper/lower flammability or explosive limits | No data available |
| Vapour pressure | No data available |
| Relative vapour density | No data available |
| Density | No data available |
| Water solubility | No data available |
| Partition coefficient: n-octanol/water | No data available |
| Ignition temperature | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Evaporation rate | No data available |

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

**Chemical stability**
Stable under recommended storage conditions.

**Possibility of hazardous reactions**
No data available

**Conditions to avoid**
No data available

**Incompatible materials**
No data available

**Hazardous decomposition products**
Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known. Other decomposition products - No data available

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



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**Acute toxicity**

**Oral LD50**
No data available

**Inhalation LC50**
No data available

**Dermal LD50**
No data available

**Other information on acute toxicity**
No data available

**Skin corrosion/irritation**
No data available

**Serious eye damage/eye irritation**
Eyes: 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.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**Reproductive toxicity**
No data available

**Teratogenicity**
No data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**
No data available

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**
No data available

**Aspiration hazard**
No data available

**Potential health effects**

| | |
|---|---|
| **Inhalation** | May be harmful if inhaled. May cause respiratory tract irritation. |
| **Ingestion** | May be harmful if swallowed. |
| **Skin** | May be harmful if absorbed through skin. May cause skin irritation. |
| **Eyes** | May cause eye irritation. |

**Synergistic effects**
No data available

**Additional Information**
RTECS: Not available

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

**Toxicity**
No data available

**Persistence and degradability**



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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.

**Contaminated packaging**
Dispose of as unused product.

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

**TDG (Canada)**
Not dangerous goods

**IMDG**
Not dangerous goods

**IATA**
Not dangerous goods

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

**WHMIS Classification**
Not WHMIS controlled.

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 SDS 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.

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**End of SDS**



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