

SAFETY DATA SHEET

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Revision Number	2

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name	TAE Buffer Solution, 10x Stock
Product code	GMES-B-TBE
Brand	GMExpression

1.2 Other means of identification

No information available

1.3 Relevant identified uses and uses advised against

Identified uses:	For R&D use only.
Uses advised against:	This product should not be used for pharmaceutical, household or other uses.

1.4 Details of the supplier of the safety data sheet

Company:	General Molecular Expression Service Pty Ltd. Hannaford Building, Waite Road, SA 5064 AUSTRALIA
E-mail:	support@gmexpression.com

1.5 Emergency telephone

Emergency Phone Company emergency call (24/7): +61 481 192 170

SECTION 2: Hazards identification

2.1 GHS Classification

Signal Word	Health hazard
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Hazard pictograms

Hazards statement:

H350 - May cause cancer
H360FD - May damage fertility. May damage the unborn child

2.2 Precautionary statements

Prevention:

Use personal protective equipment as required
Wear protective gloves/protective clothing/eye protection/face protection

Response:

If exposed or concerned: Get medical advice/attention.

Disposal:

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.

2.3 Other hazards - none

SECTION 3: Composition/information on ingredients

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

3.1 Substances

Not applicable.

3.1 Mixtures

Component	CAS No.	Weight %
Boric acid	10043-35-3	5-10
on-hazardous ingredients	Proprietary	Balance

SECTION 4: First aid measures

4.1 Description of first-aid measures

In case of skin contact

Rinse skin with soap and plenty of water. Immediate medical attention is not required.

In case of eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If inhaled

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

If swallowed

Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

Notes to Physician

Treat symptomatically.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Substance is non-flammable; use agent most appropriate to extinguish surrounding fire.

5.2 Special hazards arising from the substance or mixture

Nature of decomposition products not known.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment as required. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing.

6.2 Environmental precautions
Should not be released into the environment. See Section 12 for additional Ecological Information.

6.3 Methods and materials for containment and cleaning up
Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities Storage conditions

Store in cool place.
Keep container tightly closed in a dry and well-ventilated place.

Storage stability
Stored at room temperature. Recommended storage temperature: 2 - 8 °C

Storage class
Storage class (TRGS 510): 12: Non Combustible Liquids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.3 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

8.2 Exposure controls

Appropriate engineering controls
General industrial hygiene practice.

Personal protective equipment

Eye/face protection
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.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

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
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).

Control of environmental exposure
No special environmental precautions required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

A) Physical state	Liquid
B) Colour	Clear
C) Odour	No data available
D) Melting point/freezing point	No data available
E) Initial boiling point and boiling range	No data available
F) Flammability (solid, gas)	No data available
G) Upper/lower flammability or explosive limits	No data available
H) Flash point	No data available
I) Autoignition temperature	No data available
J) Decomposition temperature	No data available
K) PH	No data available
L) Viscosity	
Viscosity, kinematic:	No data available
Viscosity, dynamic:	No data available
M) Water solubility	No data available
N) Partition coefficient n-octanol/water:	No data available
O) Vapour pressure	No data available
P) Density	No data available
Relative density	No data available
Q) Relative vapour density	No data available
R) Particle characteristics	No data available
S) Explosive properties	Not classified as explosive.
T) Oxidizing properties	none

9.2 Other safety information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Excess heat.

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

None under normal use conditions.
In the event of fire: see section 5.

10.7 Hazardous Polymerization

Hazardous polymerization does not occur.

10.8 Hazardous Reactions

None under normal processing.

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

Oral: Based on ATE data, the classification criteria are not met.

Dermal: Based on ATE data, the classification criteria are not met.

Vapour: Based on ATE data, the classification criteria are not met.

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Boric acid	= 2660 mg/kg (rat)	> 2000 mg/kg (rat)	>2.2 mg/l (rat) 4 h

Skin corrosion/irritation

Irritating to eyes and skin

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No components listed in IARC/NTP/ACGIH/OSHA/Mexico.

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

11.2 Additional Information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information**12.1 Ecotoxicity**

Do not empty into drains.

12.2 Persistence and degradability

Miscible with water Persistence is unlikely based on information available.

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

Will likely be mobile in the environment due to its water solubility.

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

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

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information**14.1 UN number**

ADR/RID: - IMDG: - IATA-DGR: -

14.2 UN proper shipping name

ADR/RID:	Not dangerous
IMDG:	Not dangerous
IATA-DGR:	Not dangerous

14.3 Transport hazard classes

ADR/RID: - IMDG: - IATA-DGR: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA-DGR: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA-DGR: no

14.6 Special precautions for user**14.7 Incompatible materials**

No data available.

Further information

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation****Substance or mixture**

Standard for the Uniform Scheduling of Medicines and Poisons:
Not poison schedule number allocated.

SECTION 16: Other information**Disclaimer**

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

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