

ENCES G-Biosciences, St Louis, MO, USA | 1-800-628-7730 | 1-314-991-6034 | technical@GBiosciences.com

A Geno Technology, Inc. (USA) brand name

Safety Data Sheet

Cat. # BTNM-0075

TBE Buffer Concentrate, 1X, 1L

Size: 1L





Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 11/14/2016 Revision date: 05/11/2017 Version: 7.1

SECTION 1: Identification				
1.1. Identification				
Product form	: Mixture			
Product name				
Product name : TBE Buffer, 1X, 1L Product code : T037				
I.2. Recommended use and restrictions on use				
No additional information available				
1.3. Supplier				
Geno Technology, Inc./ G-Bioscience 9800 Page Avenue Saint Louis, 63132-1429 - United Sta T 800-628-7730 - F 314-991-1504 technical@GBiosciences.com - www	ates			
1.4. Emergency telephone nu	umber			
Emergency number	: Chemtrec 1-800-424-930	0 (USA/Canada), +1-703	3-527-3887 (ntl)
SECTION 2: Hazard(s) iden	tification			
2.1. Classification of the sub	stance or mixture			
GHS US classification				
Not classified				
2.2. GHS Label elements, inc	luding precautionary statements			
GHS US labeling				
No labeling applicable				
2.3. Other hazards which do	not result in classification			
No additional information available				
2.4. Unknown acute toxicity ((GHS US)			
Not applicable				
SECTION 3: Composition/Ir	nformation on ingredients			
3.1. Substances				
Not applicable				
3.2. Mixtures				
Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
boric acid	basilit B / boracic acid / boric acid / boric acid (H3-BO3) / borofax / boron trihydroxide / dr.'s 1 flea terminator DF / dr.'s 1 flea terminator DTPBO / dr.'s 1 flea terminator DTPBO / E284 / epa pesticide code 011001 / flea prufe / LUCHEM AT / OPTIBOR NF / OPTIBOR SP / OPTIBOR SQ /	(CAS-No.) 10043-35-3	0.5 - 2	Aquatic Acute 3, H402
	OPTIBOR TG / OPTIBOR TP / ortho-boric acid / sassolite / super flea eliminator / three elephant /			
Full text of hazard classes and H-sta	OPTIBOR TG / OPTIBOR TP / ortho-boric acid / sassolite / super flea eliminator / three elephant / trihydroxyborone			
Full text of hazard classes and H-sta	OPTIBOR TG / OPTIBOR TP / ortho-boric acid / sassolite / super flea eliminator / three elephant / trihydroxyborone			

22/22/22/2		D (
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.	
First-aid measures after eye contact	: Rinse eyes with water as a precaution.	
First-aid measures after skin contact	: Wash skin with plenty of water.	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.	
4.1. Description of first aid measures		

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

4.2. Most important symptoms and effects (acute and delayed) No additional information available 4.3. Immediate medical attention and special treatment, if necessary Treat symptomatically. SECTION 5: Fire-fighting measures 5.1. Suitable (and unsuitable) extinguishing media Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide. Specific hazards arising from the chemical 5.2. No additional information available Special protective equipment and precautions for fire-fighters 5.3 Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. SECTION 6: Accidental release measures Personal precautions, protective equipment and emergency procedures 6.1. 6.1.1. For non-emergency personnel Emergency procedures : Ventilate spillage area. 6.1.2. For emergency responders Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". 6.2 **Environmental precautions** Avoid release to the environment. 6.3. Methods and material for containment and cleaning up Methods for cleaning up : Take up liquid spill into absorbent material. Other information : Dispose of materials or solid residues at an authorized site. **Reference to other sections** 6.4. For further information refer to section 13. SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. : Do not eat, drink or smoke when using this product. Always wash hands after handling the Hygiene measures product. 7.2. Conditions for safe storage, including any incompatibilities Storage conditions : Store in a well-ventilated place. Keep cool. SECTION 8: Exposure controls/personal protection 8.1. **Control parameters** TBE Buffer, 1X, 1L No additional information available boric acid (10043-35-3) **USA - ACGIH - Occupational Exposure Limits** ACGIH TWA (mg/m³) 2 mg/m³ (Inhalable fraction) 6 mg/m³ (Inhalable fraction) ACGIH STEL (mg/m³)

8.2.	Appropriate engineering controls	
Appropr	iate engineering controls	: Ensure good ventilation of the work station.
Environ	mental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical	properties
9.1. Information on basic physical and	
Physical state	: Liquid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	y
10.1. Reactivity	
The product is non-reactive under normal cond	itions of use, storage and transport.
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reactions	
No dangerous reactions known under normal c	onditions of use.
10.4. Conditions to avoid	
None under recommended storage and handlin	ng conditions (see section 7).
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition product	'S
Hazardous decomposition products.	
06/29/2010	ENI/English LIS) 2/5

TBE Buffer, 1X, 1L Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 11: Toxicological informati	on
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
boric acid (10043-35-3)	
LD50 oral rat	> 2600 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male, Experimental value, Oral, 15 day(s))
LD50 dermal rabbit	> 2000 mg/kg (FIFRA (40 CFR), 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LC50 inhalation rat (mg/l)	> 2.12 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (dust), 14 day(s))
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
/iscosity, kinematic	: No data available

SECTION 12: Ecological informa	tion
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
boric acid (10043-35-3)	
LC50 fish 1	79.7 mg/l (EPA OPPTS 850.1075, 96 h, Pimephales promelas, Static system, Fresh water, Read-across)
ErC50 (algae)	52.4 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Weight of evidence, GLP)
12.2. Persistence and degradability	
boric acid (10043-35-3)	
Persistence and degradability	Biodegradability in soil: not applicable. Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
12.3. Bioaccumulative potential	
boric acid (10043-35-3)	
BCE fish 1	< 0.1 l/kg (60 day(c). Opcorbynchus tshawytscha, Elow-through system, Eresh water, Weight

BCF fish 1	< 0.1 l/kg (60 day(s), Oncorhynchus tshawytscha, Flow-through system, Fresh water, Weight of evidence, Fresh weight)
Log Pow	-1.09 (Experimental value, EU Method A.8: Partition Coefficient, 22 °C)
Bioaccumulative potential	Not bioaccumulative.
12.4. Mobility in soil	

ric acid (10043-35-3)	
ology - soil	No (test)data on mobility of the substance available. May be harmful to plant growth, blooming and fruit formation.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations		
13.1. Disposal methods		
Waste treatment methods	: Waste treatment methods.	
SECTION 14: Transport infor	mation	
SECTION 14: Transport infor	mation	
SECTION 14: Transport infor Department of Transportation (DOT)		

Not applicable

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

boric acid (10043-35-3)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

EU-Regulations

National regulations No additional information available

15.3. US State regulations

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-phrases:

H402	Harmful to aquatic life

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.