

Safety Data Sheet

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

Identification of the substance or mixture

Product code 15581044

Product name TBE BUFFER, 10X

Company/undertaking identification

Life Technologies Corporation 5781 Van Allen Way PO Box 6482 Carlsbad, CA 92008 +1 760 603 7200 Life Technologies 5250 Mainway Drive Burlington, ONT CANADA L7L 6A4 800/263-6236

24 hour Emergency Response for Hazardous Materials Within the USA + Canada: 1-800-424-9300 and

[or Dangerous Goods] Incident. Spill, Leak, Fire, 1-703-527-3887

Exposure, or Accident. Call CHEMTRECOutside the USA + Canada: 1-703-741-5970

Country Specific Emergency Number (if available):

For research use only. Not for use in diagnostic procedures

SECTION 2: Hazards identification

GHS - Classification

Signal Word DANGER

Hazard pictograms



Health hazards

Product code

15581044

Reproductive Toxicity Category 1B

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Product name TBE BUFFER, 10X

Physical hazards

Not Hazardous

Environmental hazards

Not Hazardous

Hazard Statements

H360FD - May damage fertility. May damage the unborn child

Precautionary Statements

Prevention

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

Response

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

Storage

Not Applicable

Disposal

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

Other hazards

Not Applicable

HMIS

<u> </u>		
Health	4 * Chronic Hazard	
Flammability	0	
Reactivity	0	

SECTION 3: Composition/information on ingredients

Component	CAS No.	Common name	EINECS-No	Weight-%
boric acid	10043-35-3	-	233-139-2	3-7
10043-35-3 (3-7)				

We recommend handling all chemicals with caution.

SECTION 4: First aid measures

Description of first aid measures

Skin contact Rinse with plenty of water. Immediate medical attention is not required.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

Ingestion Not expected to present a significant ingestion hazard under anticipated conditions

of normal use. If you feel unwell, seek medical advice.

Inhalation Not expected to be an inhalation hazard under anticipated conditions of normal

use of this material. Consult a physician if necessary.

Notes to Physician Treat symptomatically.

Most important symptoms and effects, both acute and delayed

H360FD - May damage fertility. May damage the unborn child

Indication of any immediate medical attention and special treatment needed

IF exposed or concerned: Get medical advice/attention. Wear protective gloves/protective clothing and eye/face protection.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media Foam. Dry powder. Dry chemical. Carbon dioxide (CO₂).

Water spray.

Unsuitable extinguishing mediaNo information available.

Special hazards arising from the substance or mixture

Not known.

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Always wear recommended Personal Protective Equipment

Use personal protection equipment

See Section 8 for more detail

Environmental precautions

No special environmental precautions required. Avoid discharge into drains and waterways whenever possible.

Methods and material for containment and cleaning up

Soak up with inert absorbent material.

Reference to other sections

Product code

See section 8 for more information.

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SECTION 7: Handling and storage

Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

Specific end use(s)

For research use only.

SECTION 8: Exposure controls/personal protection

Control parameters

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
boric acid	None	None	2 mg/m ³	6 mg/m ³

Chemical Name Brazil - OEL - TWAs (LTs)		Brazil - OEL - Ceilings	Brazil - OEL - Skin Designations	
boric acid None		None	None	

Engineering measures Ensure adequate ventilation, especially in confined areas.

Exposure controls

Personal Protective Equipment

Respiratory protection In case of insufficient ventilation wear respirators and components tested and

approved under appropriate government standards.

Hand protection Wear suitable gloves.

Eye protection Tight sealing safety goggles.

Skin and Body Protection Wear laboratory coat for body protection.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls

No special environmental precautions required.

SECTION 9: Physical and chemical properties

°F No data

°F No data °F No data

°F No data

°F No data

Information on basic physical and chemical properties

Appearance liquid

Odor Mixture has not been tested
Odor Threshold Mixture has not been tested

Molecular Weight No data

pH Mixture has not been tested

°C No data

°C No data

Melting point / melting range Boiling point / boiling range

Evaporation rate
Flammability (solid, gas)
Upper explosion limit
Lower explosion limit
Vapor Pressure

No data
No data
No data

Upper explosion limit

Lower explosion limit

Vapor Pressure

Vapor density

Relative density

Specific gravity

No data

No data

No data

Specific gravity

No data

Solubility Soluble in water

Partition coefficient: No data

n-octanol/water

Viscosity

Explosive properties

Mixture has not been tested

Mixture has not been tested

Mixture has not been tested

Other information

No data.

SECTION 10: Stability and reactivity

Reactivity None known.

Chemical stability Stable under normal conditions.

Possibility of hazardous

reactions

Hazardous reaction has not been reported.

Conditions to avoid No information available.

Incompatible materialsNo dangerous reaction known under conditions of normal use.

Hazardous decomposition

products

No data available.

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SECTION 11: Toxicological information

Information on toxicological effects

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
boric acid	= 2660 mg/kg (Rat) = 3765 mg/kg	No data available	>0.16mg/L(Rat) >=2120mg/m³(Rat)
	(Rat)		

Principal Routes of Exposure

Acute toxicity Data are conclusive but insufficient for classification

Skin corrosion/irritation Data are conclusive but insufficient for classification

Serious eye damage/irritation Data are conclusive but insufficient for classification

Respiratory or skin

sensitization

Carcinogenicity

Data are conclusive but insufficient for classification

Specific target organ toxicity Data are conclusive but insufficient for classification (STOT) – single exposure

Specific target organ toxicity Conclusive but not sufficient for classification

(STOT) – repeated exposure

Germ cell mutagenicity Data are conclusive but insufficient for classification

Reproductive toxicity May cause adverse reproductive effects - such as birth defect, miscarriages, or

Data are conclusive but insufficient for classification

infertility

Aspiration hazard Data are conclusive but insufficient for classification

SECTION 12: Ecological information

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Microtox Data	log Pow
boric acid	No data available	Daphnia magna EC50115 - 153 mg/L (48 h)	No data available	No data available	logPow-0.757

Mobility in soil No information available.

Persistence and degradability No information available.

Bioaccumulative potential Material does not bioaccumulate.

Results of PBT and vPvB assessment

Not Applicable.

Other adverse effects No information available.

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SECTION 13: Disposal considerations

Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations

SECTION 14: Transport information

IATA / ADR / DOT-US / IMDG

Not regulated in the meaning of transport regulations

UN number
UN proper shipping name
Transport hazard class(es)
Packing group

Not Applicable
Not Applicable
Not Applicable

Environmental hazards

Not Applicable

Special precautions for user

Not Applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not Applicable.

SECTION 15: Regulatory information

Component	US TSCA
boric acid	Listed
10043-35-3 (3-7)	

US Federal Regulations

SARA 313

This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contains HAPs.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

WHMIS Hazard Class

D2A - Very toxic materials

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

National Regulations - Brazil

<u>Chemical Name</u>	CAS No.	Brazil - National Agency for Sanitary Surveillance (ANVISA)	Brazil - National List of Carcinogen Agents to Humans (LINACH)
boric acid	10043-35-3	Not Listed	Group 2A

SECTION 16: Other information

Reason for revision SDS sections updated.

Revision number 8

Revision date 21-May-2019

For research use only. Not for use in diagnostic procedures.

References

Revision date

Product code

- ECHA: http://echa.europa.eu/
- TOXNET: http://toxnet.nlm.nih.gov/
- eChemPortal: http://www.echemportal.org/

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• LOLI database: https://www.chemadvisor.com/loli-database

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held

liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"

End of Safety Data Sheet
