

Issuing Date: 26-Dec-1997 Revision Date: 6-Jun-2018 Rev. 6

1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND THE COMPANY/UNDERTAKING

Product Name: 10X TBE Buffer Pouch

Product Code: IB01020

Recommend Use: For further manufacturing use only

Not for human or animal drug use Used in DNA electrophoresis

Company: IBI SCIENTIFIC

7445 Chavenelle Road Dubuque, IA 52002

Emergency Tele. Number: 3E Company (Acct# 9027) 1-800-451-8346 / (001) 760-602-8703

Company Tele. Number: 1-800-253-4942 / (001) 563-690-0484

E-Mail Address: info@ibisci.com

2. HAZARDOUS IDENTIFICATION

GHS – Classification

Classification: This chemical is considered hazardous by the 2012 OSHA Hazard Communication

Standard (29 CFR 1910.1200)

Acute Toxicity – Inhalation (Dust/Mists)

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Reproductive Toxicity

Specific target organ toxicity (single exposure)

Category 2

Category 2

Category 1

Category 3

Signal Word: Danger







Appearance: White **Physical State:** Powder

Odor: No information available

Hazard Statements: H315-Causes skin irritation * H319-Causes serious eye irritation * H330-Fatal if inhaled

* H360-May damage fertility or the unborn child * H335-May cause respiratory irritation

* H336-May cause drowsiness or dizziness

Precautionary Statements: 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 * P260-Do not breathe

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dust/fume/gas/mist/vapors/spray * P271-Use only outdoors or in well-ventilated area * P284-Wear respiratory protection * P264-Wash face, hands, and any exposed skin thoroughly after handling * P308+P313-IF EXPOSED OR CONCERNED: Get medical advice/attention * P305+P351+P338-IF IN EYES-Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing * P337+P313-IF EYE IRRITATION PERSISTS: Get medical advice/attention * P302+P352-IF ON SKIN: Wash with plenty of water and soap * P332+P313-IF SKIN IRRITATION OCCURS: Get medical advice/attention * P362-Take off contaminated clothing and wash it before reuse * P304+P340-IF INHALED: Remove person to fresh air and keep comfortable for breathing * P310-Immediately call a POISON CENTER or doctor * P405-Store locked up * P403-Store in well-ventilated place * P233-Keep container tightly closed * P501-Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified: Not regulated

Other Information: May be harmful if swallowed

Toxic to aquatic life with long lasting effects

Harmful to aquatic life

Unknown Acute Toxicity: 0% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: Boric Acid EDTA, Disodium dehydrate Tris EC No.: EEC No. 233-139-2 EEC No. 200-449-4 EEC No. 201-064-4 **REACH Reg. No.:** Not Available Not Available Not Available 10043-35-3 6381-92-6 77-86-1 CAS No.: Weight %: 1 - 520 - 4060 - 65 Classification:

4. FIRST AID MEASURES

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper

eyelids. Consult a physician.

Skin Contact: Wash off immediately with soap and plenty of water, removing all contaminated clothes

and shoes.

Inhalation: Move to fresh air. If not breathing, give artificial respiration.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth.

Notes to Physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flammable Properties: Not flammable Flash Point: Not determined

Suitable Extinguishing Media: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Hazardous Combustion Products: Carbon oxides, Nitrogen oxides (NOx)

Explosion Data

Sensitivity to Mechanical Impact:

Sensitivity to Static Discharge:

Not sensitive

Protective Equip. & Precautions for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equiv.) and

full protective gear.

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6. ACCIDENTAL RELEASE MEASURES

Ensure adequate ventilation, especially in confined areas. **Personal Precautions:**

Methods for Containment: Prevent further leakage or spillage, if safe to do so.

Methods for Cleaning Up: Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area

and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Handling: Handle in accordance with good industrial hygiene and safety practice. Hygroscopic. **Storage:** Keep container tightly closed in a dry, cool, and well-ventilated place. Hygroscopic.

Protect from moisture.

Incompatible Products: Strong oxidizing agents.

8. Exposure Controls / Personal Protection

Chemical Name: Boric Acid EDTA, Disodium dehydrate Tris

ACGIH TLV: $STEL = 6mg/m^3$

 $TWA = 2mg/m^3$

OSHA PEL: NIOSH IDLH:

Engineering Measures: Showers, Eyewash Stations, Ventilation Systems

Personal Protective Equipment

Eye/Face Protection: Avoid contact with eyes. Safety glasses with side shields.

Skin & Body Protection: Wear protective gloves/clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

> respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White powder

Odor: No information available **Odor Threshold:** No information available **Decomposition Temp.** °C: No information available **Freezing Point:** No information available **Initial Boiling Point:** No information available

Physical State: Powder

pH: No data available **Flash Point:** Not determined **Autoignition Temp. °C:** No data available **Boiling Point/Range:** No data available Melting Point/Range: No data available

Flammability Limits (Air): Upper-No data available * Lower-No data available

Explosion Limits No information available **Explosive Properties:** No information available **Oxidizing Properties:** No information available **Evaporation Rate:** No information available **Vapor Density:** No data available

Specific Gravity: No data available

Solubility: No information available

Partition Coefficient (n-octanol/water): No data available

Viscosity: No information available

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10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions

Incompatible Products: Strong oxidizing agents
Conditions to Avoid: Protect from moisture

Hazardous Decomposition Products: Carbon oxides, Nitrogen oxides (NOx) **Hazardous Polymerization:** Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information: Irritating to eye, skin, and respiratory system.

Inhalation – May be fatal if inhaled Eye Contact – Severely irritating to eyes

Skin Contact – Irritating to skin

Ingestion – There is no data available for this product

Chemical Name: Boric Acid EDTA, Disodium dehydrate Tris

LD50 Oral: 2660mg/kg (Rat) 1700mg/kg (rat) 5900mg/kg (Rat)

LD50 Dermal: 2000mg/kg (Rabbit) LC50 Inhalation: > 0.16mg/L (Rat) 4h -

Information on toxicological effects

Delayed and immediate effects as well as chronic effects from short and long-term exposure

SensitizationNo information availableMutagenic EffectNo information availableCarcinogenticityNo information available

Chemical Name: <u>Boric Acid</u> <u>EDTA, Disodium dehydrate</u> <u>Tris</u>

ACGIH: - - - IARC: Group 2A -

Reproductive Toxicity:STOT – single exposure:
STOT – repeated exposure:
No information available
No information available

Target Organ Effects: Liver, Kidneys, Central nervous system (CNS).

Aspiration hazard: No information available **Numerical measures of toxicity – Product Information:**

Unknown Acute Toxicity: 0% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document. mg/kg / mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity: 63.7% of the mixture consists of component(s) of unknown hazards to the aquatic

environment.

Chemical Name:TrisAlgae/aquatic plants:-Toxicity to fish:-Crustacea:-

Partition coefficient: -0.757 @ 25° **Chemical Name:** Boric Acid

Algae/aquatic plants: -

Toxicity to fish: LC50 = 1020 mg/L Carassius auratus (72h)Crustacea: EC50 = 115-153 mg/L Daphnia magna (48h)

Partition coefficient: -0.757 @ 25°C

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Chemical Name: <u>EDTA</u>

Algae/aquatic plants: EC50 = 1.01 mg/L Desmodesmus subspicatus (72h) Toxicity to fish: LC50 = 44.2 - 76.5 mg/L Pimephales promelas (96h)

LC50 – 34 – 62mg/L Lepomis macrochirus (96h)

Crustacea: EC50 = 113mg/L Daphina magna (48h)

Partition coefficient: -0.757 @ 25°C

13. DISPOSAL CONSIDERATIONS

Water Disposal Method: Dispose of material in accordance with all federal, state, and local regulations.

Contaminated Packaging: Do not re-use empty containers. Dispose of in accordance with all federal, state, and local

regulations.

California Hazardous Waste Status: Boric Acid #10043-35-3 - Toxic

14. TRANSPORT INFORMATION

IATA

Not regulated

US DOT

Not regulated

15. TOXICOLOGICAL INFORMATION

REACH Title VII Restrictions	No information available		
Chemical Name:	Boric acid	EDTA Disodium	<u>Tris</u>
Dangerous Substances:	Not applicable	Not applicable	Not applicable
Organic Solvents:	Not applicable	Not applicable	Not applicable
Harmful Substances Whose Names are to be indicated on			
the Label:	Not applicable	Not applicable	Not applicable
Pollution Release and Transfer Registry (Class II):	Not applicable	Not applicable	Not applicable
Pollution Release and Transfer Registry (Class I):	Not applicable	Not applicable	Not applicable
Poison and Deleterious Substances Control Law:	Not applicable	Not applicable	Not applicable
ISHA - Harmful Substances Prohibited for Manufacturing,			
Importing, Transferring, or Supplying:	Not applicable	Not applicable	Not applicable
ISHA – Harmful Substances Requiring Permission:	Not applicable	Not applicable	Not applicable
Toxic Chemical Classification Listing (TCCL):	Not applicable	Not applicable	Not applicable
Toxic Release Inventory (TRI) – Group I:	Not applicable	Not applicable	Not applicable
Toxic Release Inventory (TRI) – Group II:	>=1.0%	Not applicable	Not applicable

International Inventories

TSCA: Complies
EINECS/ELINCS: Complies
ENCS: Complies
IECSC: Complies
KECL Complies
PICCS Complies
AICS Complies

U.S. Federal Regulations

SARA 313 Section 313 of Title III of the superfund Amendments and Reauthorization Act of 1986

(SARA). This product does not contain any chemical/chemicals which are subject to the reporting requirements of the Act & Title 40 of the Code of Federal Regulations, part

372.

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SARA 311/312 Hazard Categories

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act This product does not contain any substances regulated as pollutants pursuant to the

Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act This product does not contain any substances regulated as hazardous air pollutants

(HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

CERCLA The material, as supplied, contains one or more substances regulated as hazardous

substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting

requirements at the local, regional, or state level pertaining to releases of this material.

Chemical Name: EDTA #60-00-4

Hazardous Substances RQs 5000lbs

Extremely Hazardous Sub. RQs: -

RQ RQ 5000lbs final RQ RQ 2270lbs final RQ

U.S. State Regulations

California Proposition 65 This product does not contain any Proposition 65 chemicals.

Chemical Name: EDTA #60-00-4

State

Massachusetts - New Jersey X Pennsylvania X

US EPA Label Information EPA Pesticide Registration Number: Not regulated

International Regulations

Mexico No information available

Canada No information available

WHMIS Hazard Class D2B – Toxic materials



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16. OTHER INFORMATION

Issuing Date:26-Dec-1997Revision Date:6-Jun-2018

Revision Note: Updated address and logo **Recommended Restrictions:** No information available

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 test.

End of Safety Data Sheet