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Rev. 7

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

Product Name: 25X TAE Buffer Concentrate Pouch
Product Code: IB01030
Recommend Use: For further manufacturing use only
Not for human or animal drug use
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) | Category 3 |
| Skin Corrosion/Irritation | Category 2 |
| Serious Eye Damage/Eye Irritation | Category 2 |

Signal Word: Warning



Hazard Statements: H315-Causes skin irritation * H319-Causes serious eye irritation * H331-Toxic if inhaled.

Precautionary Statements: P264-Wash face, hands, and any exposed skin thoroughly after handling * P281-Avoid breathing dust/fume/gas/mist/vapors/spray * P271-Use only outdoors or in well-ventilated area * P280-Wear protective gloves/protective clothing/eye protection/face protection * P302+P352-IF ON SKIN: Wash with plenty of soap and water * P304+P340-IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing * P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. * P311-Call a POISON CENTER or doctor/physician * P403+233-Store in a well-ventilated place. Keep container tightly closed * P405-Store locked up * P501-Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified: Not regulated

Other Information: May be harmful if swallowed

3. COMPOSITION/INFORMATION ON INGREDIENTS

| | | |
|------------------------|---------------------------------|--|
| Chemical Name: | Tris hydroxymethyl aminomethane | 1,3-Propanediol,2-amino-2-(hydroxymethyl)-acetate (salt) |
| EC No.: | EEC No. 201-064-4 | EEC No. 229-939-6 |
| REACH Reg. No.: | Not Available | Not available |
| CAS No.: | 77-86-1 | 6850-28-8 |
| Weight %: | >1% | >1% |
| Classification: | - | - |

| | | |
|------------------------|--|--------------------------|
| Chemical Name: | Ethylenediaminetetraacetate, tetrasodium | EDTA, disodium dihydrate |
| EC No.: | EEC No. - | EEC No. - |
| REACH Reg. No.: | Not Available | Not available |
| CAS No.: | 13235-36-4 | 6381-92-6 |
| Weight %: | >1% | >1% |
| Classification: | - | - |

4. FIRST AID MEASURES

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| Eye Contact: | Rinse thoroughly with plenty of water for at least 15 minutes and 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 breathing becomes difficult, give oxygen. |
| Ingestion: | Clean mouth with water and afterwards drink plenty of water. |
| Notes to Physician: | Treat symptomatically. |

5. FIRE FIGHTING MEASURES

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| Flammable Properties: | Not flammable |
| Flash Point: | Not determined |
| Suitable Extinguishing Media: | Dry chemical, CO ₂ , water spray, or regular foam |
| Hazardous Combustion Products: | Carbon oxides, Nitrogen oxides (NO _x) |
| Explosion Data | |
| Sensitivity to Mechanical Impact: | Not sensitive |
| Sensitivity to Static Discharge: | Not sensitive |
| Specific Hazards Arising from the Chemical: | Fine powder is capable of creating a dust explosion. |
| 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. |

6. ACCIDENTAL RELEASE MEASURES

| | |
|---------------------------------|--|
| Personal Precautions: | Avoid contact with skin, eyes, and clothing. Use personal protective equipment. Ensure adequate ventilation. |
| 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

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|-------------------------------|--|
| Handling: | Handle in accordance with good industrial hygiene and safety practice. Hygroscopic. Protect from moisture. |
| 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

| | |
|---|---|
| Engineering Measures: | Showers, Eyewash Stations, Ventilation Systems |
| <u>Personal Protective Equipment</u> | |
| Eye/Face Protection: | Tight fitting safety goggles. |
| 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: | Fine 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: | No data available |
| Autoignition Temp. °C: | No data available |
| Boiling Point/Range: | No data available |
| Melting Point/Range: | No data available |
| Flammability Limits (Air): | <u>Upper</u> -No data available * <u>Lower</u> -No data available |
| Explosive Properties: | No information available |
| Oxidizing Properties: | No information available |
| Evaporation Rate: | No data available |
| MMHG @ 37.8°C: | No data available |
| Vapor Density: | No data available |
| Specific Gravity: | No data available |
| Density: | No data available |
| Solubility: | No information available |
| Water Solubility: | No data available |
| Partition Coefficient (n-octanol/water): | No data available |
| Viscosity: | No information available |

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.

Chronic Toxicity

Chronic Toxicity: No known effect based on information supplied.

Target Organ Effects:

None known.

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

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

Contaminated Packaging: Dispose of in accordance with all federal, state, and local regulations.

14. TRANSPORT INFORMATION

IATA

Not regulated

US DOT

Not regulated

15. TOXICOLOGICAL INFORMATION

REACH Title VII Restrictions

| | | |
|---|---|---|
| <p>Chemical Name:</p> <p>Dangerous Substances:</p> <p>Organic Solvents:</p> <p>Harmful Substances Whose Names are to be indicated on the Label:</p> <p>Pollution Release and Transfer Registry (Class II):</p> <p>Pollution Release and Transfer Registry (Class I):</p> <p>Poison and Deleterious Substances Control Law:</p> <p>ISHA – Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying:</p> <p>ISHA – Harmful Substances Requiring Permission:</p> <p>Toxic Chemical Classification Listing (TCCL):</p> <p>Toxic Release Inventory (TRI) – Group I:</p> <p>Toxic Release Inventory (TRI) – Group II:</p> | <p>No information available</p> <p><u>1,3-Propanediol,2-amino-2-(hydroxymethyl)-,acetate (salt)</u></p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> | <p><u>Tris (hydroxymethyl) amino ethane</u></p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> |
|---|---|---|

| | | |
|---|--|--|
| <p>Chemical Name:</p> <p>Dangerous Substances:</p> <p>Organic Solvents:</p> <p>Harmful Substances Whose Names are to be indicated on the Label:</p> <p>Pollution Release and Transfer Registry (Class II):</p> <p>Pollution Release and Transfer Registry (Class I):</p> <p>Poison and Deleterious Substances Control Law:</p> <p>ISHA – Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying:</p> <p>ISHA – Harmful Substances Requiring Permission:</p> <p>Toxic Chemical Classification Listing (TCCL):</p> <p>Toxic Release Inventory (TRI) – Group I:</p> <p>Toxic Release Inventory (TRI) – Group II:</p> | <p><u>Ethylenediaminetetraacetate, tetrasodium</u></p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> | <p><u>EDTA, disodium dihydrate</u></p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> <p>Not applicable</p> |
|---|--|--|

International Inventories

| | |
|----------------|-----------------|
| TSCA: | Does not comply |
| DSL: | Does not comply |
| EINECS/ELINCS: | Does not comply |
| ENCS: | Does not comply |
| IECSC: | Does not comply |
| KECL | Does not comply |
| PICCS | Does not comply |
| AICS | Does not comply |

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 a chemical/chemicals which are subject to the reporting requirements of the Act & Title 40 of the Code of Federal Regulations, part 372.

SARA 311/312 Hazard Categories

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

Clean Water Act

This product does not contain any substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act

Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61). This product does not contain any substances which are listed hazardous air pollutants (HAPs) under Section 112 of the Clean Air Act.

CERCLA

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

International Regulations

Mexico

No information available

Canada

No information available

WHMIS Hazard Class

D2B – Toxic materials



16. OTHER INFORMATION

Issuing Date: 26-Dec-1997
Revision Date: 6-Jun-2018
Revision Note: Updated address and mobile
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