

Material Safety Data Sheet
Version No.: 0(Rev. date : 2021-07-12)**10x Reaction Buffer**

1. Product and Company Information

A. Product Name : 10x Reaction Buffer

B. Recommended Use : For Research Use Only

C. Supply Information :

 Company : Bioneer Address : 8-11 Munpyeongseo-ro, Daedeok-gu, Daejeon 34302, Republic of Korea Emergency telephone number : +82-42-930-8777

2. Product and Company Information

A. Risk-Hazard Classification : Acute toxicity classification : Class 4

B. Caution Items Including Preventative measures

 Pictogram : No Information Signal word : No Information Hazard statement(s) : No Information Precautionary statements

Prevention : No Information

Response : No Information

Storage : No Information

Disposal : No Information

C. Other Risks-Hazards Not Included in Risk-Hazard Classification (NFPA) : No information.

3. Composition/Information on ingredient

Chemical name	Synonyms	CAS No.	Weight(%)
Tris-HCl		1185-53-1	5 - 7
Sodium Chloride		7647-14-5	5 - 7

Magnesium Chloride	7786-30-3	0.5 – 3
Bovine Serum Albumin	9048-46-8	0.1 – 1

4. First Aid Measure

- A. Upon Eye contact : Rinse thoroughly with plenty of water for at least 20 minutes.
 - B. Upon Skin Contact : Rinse thoroughly with plenty of water for at least 20 minutes.
 - C. Upon Inhalation: Seek medical attention if exposure or contact is suspected.
 - D. Upon Ingestion : Seek medical attention if exposure or contact is suspected.
 - E. The most important acute and delayed symptoms/effects : No information.
 - F. Notes to Physician : No Information..
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5. Fire-fighting Measures

- A. Proper(Improper) Extinguishing Material : To extinguish fire related to this material, use alcohol foam , dioxide or water spraying.
 - B. Specific Hazards from Chemicals : No Information.
 - C. Firefighting Protection and Precautions : Rescuers must wear appropriate protection.
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6. Accidental Release Measures

- A. Personal precautions : Immediately wipe spills and follow prevention measures.
 - B. Environmental precautions : Prevent introduction into waterways, sewers, basements and sealed spaces.
 - C. Methods and materials for containment and cleaning up : Absorb liquids and clean contaminated area with detergent and water.
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7. Handling and Storage

- A. Handling Precautions : Be aware of conditions and chemicals to avoid.
 - B. Storage Precautions : Keep -20 °C.
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8. Exposure Controls / Personal Protection

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- A. Chemical Exposure Standards, Biological Exposure Standards Etc. : No information.
- B. Proper Physical Management : No Information.
- C. Personal Protection
- Respiratory Protection : wear respiratory mask approved by KOSHA(Korea Occupation Safety Health Agency)
 - Eye Protection : wear Chemical Safety protective goggle or glasses approved by KOSHA(Korea Occupation Safety Health Agency)
 - Hand Protection : wear Chemical Safety gloves approved by KOSHA(Korea Occupation Safety Health Agency)
 - Body Protection : wear protective clothes approved by KOSHA(Korea Occupation Safety Health Agency)
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9. Physical and Chemical Properties

- A. Appearance : Liquid, transparentness
- B. Odor : None.
- C. Odor threshold : No Information
- D. pH : No Information
- E. Melting point/Freezing point : No Information
- F. Initial boiling point/range : No Information
- G. Flash point : No Information
- H. Evaporation rate : No Information
- I. Flammability(Solid, Liquid) : No Information
- J. Flammability Limits upper/lower : No Information
- K. Vapor pressure : No Information
- L. Solubility : No Information
- M. Vapor density : No Information
- N. Viscosity : No Information
- O. n octanol/water partition coefficient : No Information
- P. Autoignition temperature : No Information
- Q. Decomposition temperature : No Information
- R. Specific gravity : No Information
- S. Molecular weight : No Information
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10. Stability and Reactivity

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- A. Stability : Stable under recommended storage conditions.
 - B. Possibility of harmful response : No Information.
 - C. Conditions to avoid (electric discharge, impact, vibration etc) : Ignition source of Heat, spark, flame
 - D. Material to avoid : Combustible materials.
 - E. Hazardous Decomposition Products : No Information.
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11. Toxicological Information

- A. Probable Exposure Path
 - Respiratory : can be harmful if inhaled.
 - Ingestion : can be harmful if swallowed.
 - Eye/Skin : Harmful in contact with skin. Can be caused skin irritation.
 - B. Health Hazard Information
 - Acute Toxicity : No Information.
 - Skin corrosive or irritant : can be caused skin irritation.
 - Serious eye damage or irritant : can be caused eye irritation.
 - Respiratory Hypersensitivity : No Information.
 - Skin Hypersensitivity : No Information.
 - Carcinogenic Properties : No Information.
 - Reproductive Cell Mutation Properties : No Information.
 - Reproductive Toxicity : No Information
 - Target Organ Toxicity (Single Exposure) : No Information
 - Target Organ Toxicity (Repeat Exposure) : No Information
 - Inhalation Toxicity : No Information
 - C. Numerical measures of toxicity(Acute toxicity estimates etc) : No Information
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12. Ecological Information

- A. Biological Toxicity : No Information
 - B. Persistency and Degradability : No Information
 - C. Bioconcentration : No Information
 - D. Soil Mobility : No Information
 - E. Other Toxic Effects : No Information
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13. Disposal Considerations

- A. Waste disposal method : Dispose of material in accordance with formally disposal company.
 - B. Disposal Considerations : Dispose contents and vessel in accordance with regulation by the waste disposal law.
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14. Transport Information

- A. Not regulated in the meaning of transport regulations.

IMDG: Non-hazardous for sea freight.

ADR: Non-hazardous for road transport.

RID: Non-hazardous for rail transport.

ICAO/IATA: Non-hazardous for air transport.

- B. UN Number: Not applicable
 - C. UN Proper Shipping Name: Not applicable
 - D. Transport hazard class: Not applicable
 - E. Packing group: Not applicable
 - F. Marine pollutant: Not applicable
 - G. The special vehicle Safety measures: Not applicable
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15. Regulatory Information

This safety datasheet compiles with the requirements of Regulation (EC) No. 1272/2008

- A. Regulation by Industrial safety and health act: Not applicable
 - B. Regulation by chemicals control act: Not applicable
 - C. Regulation by Safety control of dangerous substance act: Not applicable
 - D. Regulation by the waste control act: Not applicable
 - E. Regulation by other domestic and foreign regulatory: Not information available
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16. Other References

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