

Material Safety Date Sheet

Version No.: 0.0(Rev. date 2016-10-03)

MagListo™ 5M Tissue Total RNA Extraction Kit**Buffer ④**

1. Product and Company Information

Product Name : Buffer ④ for *MagListo*™ 5M Tissue Total RNA Extraction Kit

Recommended Use : For Research

Supply Information

☐ Company : Bioneer☐ Address : 8-11 Munpyeongseo-ro, Daedeok-gu, Daejeon 306-220, Republic of Korea☐ Emergency telephone number : 82-42-930-8777

2. Hazards Identification

GHS-Classification

Classification of the hazardous chemical

No information available.

Label elements, including precautionary statements

Pictogram No information available.

Signal word No information available.

Hazard statements No information available.

Precautionary statements No information available.

3. Composition/Information on ingredients

Chemical name	Synonyms	CAS No.	Weight(%)
Water		7732-18-5	100%

4. First Aid measures

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- . Eye contact : Rinse thoroughly with plenty of water for at least 15 minutes.
 - . Skin Contact : Rinse thoroughly with plenty of water for at least 15 minutes.
 - . Inhalation : Move to fresh air. If breathing is difficult, give oxygen
 - . Ingestion : Never give anything by mouth to an unconscious person.
 - . Notes to Physician : No information available.
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5. Fire-fighting measures

- . Suitable Extinguishing Media : Water-spray, Dry chemical, CO2
 - . Flammable Properties : No information available
 - . Protective Equipment and Precautions for Firefighters : As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear.
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6. Accidental release measures

- . Personal Precautions : Wear respirator,safety goggles,boots,thick gloves, safety goggles.
Ensure adequate ventilation contaminated area.
 - . Environmental precautions : Prevent from waterway,drain,basement,close space.
 - . Methods for cleaning up : Absorb with sand or vermiculite. Wash contaminated site.
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7. Handling and Storage

- . Handling : Do not breathe vapors. Avoid contact with eye,skin,cloth. Wash thoroughly after handling.
 - . Storage : Keep containers tightly closed in a dry, cool and well-ventilated place. Store at room temperature
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8. Exposure control/personal protection

- . Engineering Measures : No information available
 - . Personal Protective Equipment
 - . Respiratory Protection : Wear respiratory mask approved by KOSHA(Korea Occupation safety Health Agency).
 - . Eye/Face Protection : Wear Chemical safety protective goggle or glasses approved by KOSHA(Korea Occupation safety Health Agency).
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. Skin 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).

9. Physical and chemical properties

- . Appearance : Liquid, transparentness
 - . Odor : No data available
 - . Odor threshold : No information available
 - . pH : No information available
 - . Melting point/Freezing point : No information available
 - . Initial boiling point/range : No information available
 - . Flash point : No information available
 - . Evaporation rate : No information available
 - . Flammability (Solid,Liquid) : No information available
 - . Flammability Limits upper/lower : No information available
 - . Vapor pressure : No information available
 - . Solubility : No information available
 - . Vapor density : No information available
 - . Viscosity : No information available
 - . n octanol/water : No information available
 - . Autoignition temperature : No information available
 - . Decomposition temperature : No information available
 - . Specific gravity : No information available
 - . Molecular weight : No information available
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10. Stability and Reactivity

- . Stability : Stable under recommended storage conditions.
 - . Possibility of harmful response : No information available
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- . Conditions to avoid (electric discharge, impact, vibration etc) : Ignition source of Heat,spark,flame.
 - . Material to avoid : No information available
 - . Hazardous Decomposition Products : Carbon oxides,Nitrogen oxides
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11. Toxicological information

- . Principle routes of exposure
Respiratory: can be harmful if inhaled.
Ingestion : can be harmful if swallowed.
Eye/Skin : Harmful in contact with skin. Can be caused skin irritation.
 - . Health effects
Acute toxicity : No data available
Skin corrosive or irritant : can be caused skin irritation.
Serious eye damage or irritant : can be caused eye irritation.
Respiratory irritability : No data available
Skin irritability : No data available
Carcinogenicity : No data available
Germ cell mutagenicity : No data available
Reproductive toxicity : No data available
Specific target organ toxicity (single exposure) : No data available
Specific target organ toxicity (repeated exposure) : No data available.
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12. Ecological Information

- . Ecotoxicity effects: No data available
 - . Residual and degradability : No data available
 - . Bioaccumulation : No data available
 - . Mobility : No data available
 - . Other harmful effects : No data available
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13. Disposable considerations

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

- . UN Number : Not applicable
 - . Transport hazard class : Not applicable
 - . Packing group : Not applicable
 - . Marine pollutant : Not applicable
 - . The special vehicle safety measures : Not applicable
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15. Regulatory information

- . Regulation by Industrial safety and health act : No information available
 - . Regulation by toxic chemicals control act : No information available
 - . Regulation by safety control of dangerous substance act : No information available
 - . Regulation by the waste control act : No information available
 - . Regulation by other domestic and foreign regulatory : No information available
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16. Other information

- . The source of data : KOSHA(Korea Occupation safety Health Agency),NCIS(National chemicals information system)
 - . The first reporting date : 2016-10-03
 - . Revision number and final revision date : 1.0
 - . Others : The basic information of chemical hazard data classification provided on this MSDS can be occurred different on the reference cited. This information is based on our present knowledge and shall be used only as a guide. However, this shall not constitute a guarantee for any specific product features. BIONEER is not held liable for any damage resulting from handing or from contact with the above products.
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