

## SAFETY DATA SHEET (SDS)

SDS DATE : Feb, 2023

### Section 1. Product And Company Identification

1. **Product identifier**
  - 1.1. Product Name : Quanti-LDH™ PLUS Cytotoxicity Assay Kit
  - 1.2. Product Code : BCT-LDHP500, BCT-LDHP1000
2. **Details of the supplier of the safety data sheet**
  - 2.1. Company: BIOMAX, Inc.,
  - 2.2. Address : Keumkang Penterium IX Tower CORE-C 7F, 46, Galmaesunhwan-ro 166beon-gil, Guri-si, Gyeonggi-do, Republic of Korea
  - 2.3. Telephone: +82-2-3296-3158
  - 2.4. Emergency Phone : +82-2-3296-3159
  - 2.5. FAX: +82-2-973-2858
3. **Product use**
  - 3.1. For research use only.

### Section 2. Hazard identification

Component	Description	Volume	Safety Information
WST substrate Mix	Lyophilized	N/A	No hazards
LDH Assay Buffer	Proprietary Buffer	BCT-LDHP500: 50 mL BCT-LDH1000: 100 mL	No hazards
Cell Lysis solution	Contains Triton X-100	BCT-LDH500: 5 mL BCT-LDH1000: 10 mL	See below
Stop solution	Liquid	BCT-LDH500: 5 mL BCT-LDH1000: 10 mL	No hazards

#### 1.1 **Triton X-100:**

##### Emergency Overview

**OSHA Hazards:** Irritant, Harmful by ingestion

**GHS Classification:** Serious eye damage (Category 1)

Skin irritation (Category 3)

Acute aquatic toxicity (Category 3)

Chronic aquatic toxicity (Category 3)

**GHS Label elements, including precautionary statements**

**Pictogram:**



**Signal word:** warning

**Hazard statement(s):** H316 Causes mild skin irritation.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statement(s):** P261 Avoid breathing dust/fumes/gas/mist/vapors/spray.

P264 Wash hands thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P403+P233 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.

#### HMIS Classification

Health hazard: 2

Flammability: 1

Physical hazards: 0

#### NFPA Rating

Health Hazard: 2

Fire: 1

Reactivity Hazard: 0

#### Potential Health Effects

**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.

**Skin:** Harmful if absorbed through skin. Causes skin irritation.

**Eyes:** Causes eye irritation.

**Ingestion:** Harmful if swallowed.

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#### Section 3. Composition/Information on ingredients

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Component	CAS Number	EC-No.	Molecular Weight	Formula
Triton X-100	9002-93-1	-	-	-

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#### Section 4. First Aid Measures

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**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact:** Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed:** DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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#### Section 5. Fire-fighting Measures

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**Condition of flammability:** Not flammable or combustible.

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for fire-fighters:** Wear self-contained breathing apparatus for firefighting if necessary.

**Hazardous combustion products:** Hazardous decomposition products formed under fire conditions— see section 10.

**Further information:** Use water spray to cool unopened containers.

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#### Section 6. Accidental Release Measures

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**Personal precautions:** Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Discharge into the environment must be avoided.

**Methods for cleaning up:** Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

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#### Section 7. Handling And Storage

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##### Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Normal measures for preventive fire protection. **Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: 4°C.

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#### Section 8: Exposure Controls/Personal Protection

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Contains no substances with occupational exposure limit values.

##### Personal protective equipment

###### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

###### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

###### Eye protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

###### Skin and body protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measures

Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product.

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### Section 9: Physical And Chemical Properties

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Property	Triton X-100
Appearance:	Liquid
pH:	9.7
Water Solubility:	Soluble
Other Solubility:	No data available
Boiling Point (°C):	>200 oC (>392 oF)
Melting Point (°C):	6 oC (43 oF)
Flash Point (°C):	251 oC (484 oF) – closed cup
Ignition Temperature (°C):	No data available
Density:	1.070 g/ml

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### Section 10: Stability And Reactivity

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Property	Triton X-100
Chemical Stability:	Stable under recommended storage conditions
Conditions to Avoid:	No data available
Materials to Avoid:	Strong oxidizing agents, strong acids, strong bases
Hazardous decomposition: products:	Carbon oxides

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### Section 11: Toxicological Information

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#### Triton X-100:

**Acute toxicity:** no data available

**Skin corrosion/irritation:** no data available

**Serious eye damage/eye irritation:** no data available

**Respiratory or skin sensitization:** no data available

**Germ cell mutagenicity:** no data available

#### **Carcinogenicity:**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity:** no data available

**Teratogenicity:** no data available

**Specific target organ toxicity – single exposure (GHS):** no data available

**Specific target organ toxicity – repeated exposure (GHS):** no data available

**Aspiration hazard:** no data available

#### **Potential Health Effects**

**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.

**Skin:** Harmful if absorbed through skin. Causes skin irritation.

**Eyes:** Causes eye irritation.

**Ingestion:** Harmful if swallowed.

#### **Signs and Symptoms of Exposure:**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Synergistic effects:** no data available

**Additional information:** RTECS: not available

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### Section 12: Ecological Information

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#### Triton X-100:

**Persistence and degradability:** no data available

**Toxicity:** no data available

**Bioaccumulative potential:** no data available

**Mobility in soil:** no data available

**PBT and vPvB assessment:** no data available

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

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**Section 13: Disposal Considerations**

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**Product:** Offer surplus and non-recyclable solutions to a licensed disposal company. Contact licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging:** Dispose of as unused product.

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**Section 14: Transport Information**

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**Triton X-100:**

**DOT (US):** Not dangerous goods.

**IMDG:** Not dangerous goods.

**IATA:** Not dangerous goods.

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**Section 15: Regulatory Information**

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- 1. Regulation under the Occupational Safety and Health Act**
    - 1.1 Harmful Substances Required Permission for Manufacture - Not relevant
    - 1.2 Harmful Substances Prohibited from Manufacturing - Not relevant
    - 1.3 Carcinogenic Substances - Not relevant
    - 1.4 Controlled Substances Subject to Environment Monitoring - Not relevant
    - 1.5 Controlled Substances Subject to Health Examination - Not relevant
    - 1.6 Hazardous substances requiring management - Not relevant
  - 2. Act on the Registration and Evaluation, etc. of Chemical Substances, Chemicals Control Act**
    - 2.1 Toxic Chemicals - Not relevant
    - 2.2 Observational chemicals - Not relevant
    - 2.3 Restricted Chemicals - Not relevant
    - 2.4 Prohibited Chemicals - Not relevant
    - 2.5 Accident Precaution Chemicals - Not relevant
  - 3. Dangerous Substances Safety Management Act**
    - 3.1 Not relevant
  - 4. Wastes Control Act**
    - 4.1 Follow article 13 of the act to dispose the product waste
  - 5. Other regulations**

KECI Number  
Not in compliance with the inventory
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**Section 16: Other information**

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**OTHER INFORMATION:****PREPARATION INFORMATION:****DISCLAIMER:**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions.

It does not represent any guarantee of the properties of the product. BIOMAX, Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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