

## 1. Identification

### A. Product identifier

**Product Name** 10X BspQ I Buffer

**Product Code** SD8278

### B. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** For research use only. Not for use in diagnostic procedures

**Uses advised against** No information available

### C. Supplier's details

#### Supplier

Japan:

Takara Bio Inc.

Nojihigashi 7-4-38

Kusatsu, Shiga 525-0058, Japan

Phone: +81.77.565.6972

Web: www.takara-bio.com

Korea:

Takara Korea Biomedical Inc.

601, New T Castle, 108, Gasan Digital 2-ro, Geumcheon-gu

Seoul 08506, Korea

Phone: +82.2.2081.2525

Web: www.takara.co.kr

For further information, please contact:

**Emergency telephone number** In case of emergency, call PERS (Professional Emergency Resource Services) 1-800-633-8253 (US) or 801-629-0667 (international).

## 2. Hazard(s) identification

### A. Classification of the substance or mixture

Not classified

### B. GHS Label elements, including precautionary statements

**Hazard symbols**

**Hazard Statements**

Not classified

### C. Other hazards which do not result in classification

No information available.

### 3. Composition/information on ingredients

**Substance**

Not applicable

**Mixture**

The product contains no substances which at their given concentration, are considered to be hazardous to health.

### 4. First-aid measures

**A. In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**B. In case of skin contact**

Wash skin with soap and water.

**C. In case of inhalation**

Remove to fresh air.

**D. In case of ingestion**

Clean mouth with water and drink afterwards plenty of water.

**E. Indication of immediate medical attention and special treatment needed, if necessary****Note to physicians**

Treat symptomatically.

**Symptoms**

No information available.

### 5. Fire-fighting measures

**A. Suitable (and unsuitable) extinguishing media****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Large Fire**

CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media**

Do not scatter spilled material with high pressure water streams.

**B. Specific hazards arising from the chemical**

No information available.

**C. Special Protective Equipment for Firefighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

### 6. Accidental release measures

**A. Personal precautions, protective equipment and emergency procedures****Personal precautions**

Ensure adequate ventilation.

**For emergency responders**

Use personal protection recommended in Section 8.

**B. Environmental precautions**

See Section 12 for additional Ecological Information.

**C. Methods and material for containment and cleaning up**

<b>Methods for containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	Pick up and transfer to properly labeled containers.
<b>Prevention of secondary hazards</b>	Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. Handling and storage

**A. Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

**B. Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

## 8. Exposure controls/personal protection

**A. Control Parameters**

**Occupational exposure limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**B. Appropriate engineering controls**

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

**Environmental exposure controls** No information available.

**C. Personal Protective Equipment**

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Eye protection** No special protective equipment required.

**Hand protection** No special protective equipment required.

**Body protection** No special protective equipment required.

## 9. Physical and chemical properties

**Information on basic physical and chemical properties**

<b>A. Appearance</b>	Clear, colorless
<b>Physical State</b>	Liquid

Color	Colorless	
B. Odor	Odorless	
C. Odor Threshold	No information available	
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>
D. pH	No data available	None known
E. Melting point / freezing point	No information available	None known
F. Initial boiling point and boiling range	No information available	None known
G. Flash point	No information available	Open cup
H. Evaporation Rate	No information available	None known
I. Flammability (solid, gas)	No information available	None known
J. Upper/lower flammability or explosive limits		
Upper flammability limit:		No information available
Lower flammability limit:		No information available
K. Vapor pressure	No information available	None known
L. Solubility(ies)		
Water solubility	No information available	None known
Solubility in other solvents	No information available	None known
M. Vapor density	No information available	None known
N. Specific Gravity	No information available	None known
O. Partition coefficient: n-octanol/water	No information available	None known
P. Autoignition Point	No information available	None known
Q. Decomposition temperature		None known
R. Viscosity		
Kinematic viscosity	No information available	None known
Dynamic Viscosity	No information available	None known
S. Molecular weight	No information available	
<b>Other information</b>		
Explosive properties	No information available	
Oxidizing properties	No information available	
Softening point	No information available	
VOC content	No information available	
Liquid Density	No information available	

## 10. Stability and reactivity

### A. Chemical stability and possibility of hazardous reactions

Stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

#### Explosion Data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

### B. Conditions to avoid

None known based on information supplied.

### C. Incompatible materials

None known based on information supplied.

### D. Hazardous Decomposition Products None known based on information supplied

## 11. Toxicological information

### A. Information on the likely routes of exposure

#### Product Information

<b>Inhalation</b>	Specific test data for the substance or mixture is not available.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available.
<b>Eye contact</b>	Specific test data for the substance or mixture is not available.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available.
<b>Symptoms</b>	No information available.

### B. Health hazards information

#### Acute toxicity

#### Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

<b>ATEmix (oral)</b>	5,829.90 mg/kg
<b>ATEmix (dermal)</b>	55,685.50 mg/kg

**Skin corrosion/irritation** No information available.

**Serious eye damage/irritation** No information available.

**Respiratory or skin sensitization** No information available.

**Carcinogenicity** No information available.

**Germ cell mutagenicity** No information available.

**Reproductive toxicity** No information available.

**Specific target organ toxicity (STOT) – single exposure** No information available.

**Specific target organ toxicity (STOT) – repeated exposure** No information available.

**Target organ effects** No information available.

**Aspiration hazard** No information available.

## 12. Ecological information

**A. Ecotoxicity**

**Percentage for unknown hazards** 0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

**B. Persistence and degradability** No information available.

**C. Bioaccumulative potential** No information available.

**D. Mobility in soil** No information available.

**Mobility** No information available.

**E. Other adverse effects** No information available.

### 13. Disposal considerations

**A. Waste treatment methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**B. Disposal considerations**

**Contaminated packaging** Do not reuse empty containers.

### 14. Transport information

**A. UN number or ID number** Not regulated  
**B. UN proper shipping name** Not regulated  
**C. Transport hazard class(es)** Not regulated  
**D. Packing group** Not regulated  
**E. Marine pollutant** Not applicable  
**F. Special precautions for user** Not regulated

### 15. Regulatory information

**A. Industrial Safety and Health Law** Not applicable

**Prohibited substance** Not applicable

**Substances Requiring Permission** Not applicable

**Harmful substances subject to control** Not applicable

**Harmful agents subject to work environment monitoring** Not applicable

**Harmful agents subject to workers requiring health examination** Not applicable

**Harmful or dangerous substances subject to submission of process safety reports** Not applicable

**B. Chemicals Control Act** Not applicable

**Chemicals Control Act (CCA) - Accident Precaution Chemicals** Not applicable  
**Act on Registration, Evaluation, etc. of Chemicals (K-REACH)** Not applicable

- C. Safety Control of Dangerous Substances Act** Not applicable
- D. Wastes Management** Dispose of waste in accordance with environmental legislation.
- E. Other Regulations** No information available

**International Inventories**

Legend:

TSCA - *United States Toxic Substances Control Act Section 8(b) Inventory*  
 DSL/NDSL - *Canadian Domestic Substances List/Non-Domestic Substances List*  
 EINECS/ELINCS - *European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*  
 ENCS - *Japan Existing and New Chemical Substances*  
 IECSC - *China Inventory of Existing Chemical Substances*  
 KECL - *Korean Existing and Evaluated Chemical Substances*  
 PICCS - *Philippines Inventory of Chemicals and Chemical Substances*  
 AICS - *Australian Inventory of Chemical Substances*

**16. Other information****A. Information source and references**

**Prepared By** No information available.

**Key or legend to abbreviations and acronyms used in the safety data sheet**

IMDG International Maritime Dangerous Goods (IMDG)

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	Time weighted average	STEL	Short term exposure limit
Ceiling	Maximum limit value	*	Skin designation

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 EPA (Environmental Protection Agency)  
 Acute Exposure Guideline Level(s) (AEGl(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
 U.S. Environmental Protection Agency High Production Volume Chemicals  
 Food Research Journal  
 Hazardous Substance Database  
 International Uniform Chemical Information Database (IUCLID)  
 Japan GHS Classification  
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
 NIOSH (National Institute for Occupational Safety and Health)  
 National Library of Medicine's ChemID Plus (NLM CIP)  
 National Library of Medicine's PubMed database (NLM PUBMED)  
 National Toxicology Program (NTP)  
 New Zealand's Chemical Classification and Information Database (CCID)  
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
 Organization for Economic Co-operation and Development Screening Information Data Set  
 World Health Organization

**B Revision number and date**

**Revision Number** 4  
**Revision Date** 2022-11-10

**C. Other**

**Disclaimer**

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

**End of Safety Data Sheet**