

# Safety Data Sheet

This safety data sheet complies with the requirements of: JIS Z 7253:2019

> Revision Date 2021-02-05 Revision Number 10

## 1. Identification

Product Name Product Code CAS-No 10X Ex Taq™ Buffer (Mg2+ plus) SD0307 7732-18-5

Registration number No information available Details of the supplier of the safety data sheet

## Supplier

Japan: Takara Bio Inc. Nojihigashi 7-4-38 Kusatsu, Shiga 525-0058, Japan Phone: +81.77.565.6972 Web: www.takara-bio.com

China:

Takara Biomedical Technology (Beijing) Co., Ltd. Life Science Park, 22 KeXueYuan Road, Changping District, Beijing 102206, China Phone: +86 10 8072 0980 Web: www.takarabiomed.com.cn

**Emergency telephone number** 

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

## Recommended use of the chemical and restrictions on use

Identified uses For research use only. Not for use in diagnostic procedures Restrictions on use No information available

## 2. Hazard(s) identification

## **GHS Classification**

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Classification not possible
Acute toxicity - Dermal	Classification not possible
Acute toxicity - Inhalation (Gases)	Classification not applicable
Acute toxicity - Inhalation (Vapors)	Classification not possible
Acute toxicity - Inhalation (Dusts/Mists)	Classification not possible
Skin corrosion/irritation	Classification not possible
Serious eye damage/eye irritation	Classification not possible
Respiratory sensitization	Classification not possible
Skin sensitization	Classification not possible
Germ cell mutagenicity	Classification not possible
Carcinogenicity	Classification not possible
Reproductive toxicity	Classification not possible
Effects on or via lactation	No effects on or via lactation
Specific target organ toxicity (single exposure)	Classification not possible
Specific target organ toxicity (repeated exposure)	Classification not possible
Aspiration hazard	Classification not possible
Acute aquatic toxicity	Classification not possible
Chronic aquatic toxicity	Classification not possible
Ozone	Classification not possible

## GHS label elements

## Signal word

None

#### **Hazard Statements**

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

#### Prevention

Not applicable

#### Response

 Not applicable Storage • Not applicable Disposal Not applicable

#### Other hazards

No information available.

## 3. Composition/information on ingredients

## Pure substance/mixture

Pure substance/mixture	e Mix	ture				
CAS-No	773	32-18-5				
Chemical name	CAS No	Weight-%	ENCS Inventory	ENCS Number	ISHL Inventory	ISHL No
TRADE SECRET	Trade secret	1 - 5	Existing	Listed	Existing	Listed

## Pollutant Release and Transfer Registry (PRTR)

Not applicable

## Industrial Safety and Health Law ISHL Notifiable Substances

Not applicable

Harmful Substances Whose Names Are to be Indicated on the Label Not applicable

### **Poisonous and Deleterious Substances Control Law**

Not applicable

## 4. First-aid measures

In case of inhalation	Remove to fresh air.
In case of skin contact	Wash skin with soap and water.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
In case of ingestion	Clean mouth with water and drink afterwards plenty of water.
Most important symptoms/effects, acute and delayed	No information available.
Note to physicians	Treat symptomatically.

5. Fire-fighting measures			
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.		
Specific hazards arising from the chemical	No information available.		
Special Extinguishing Media Large Fire	Cool drums with water spray. CAUTION: Use of water spray when fighting fire may be inefficient.		
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.		
6. Accidental release measures			
Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation.		
For emergency responders	Use personal protection recommended in Section 8.		
For emergency responders Environmental precautions	Use personal protection recommended in Section 8. See Section 12 for additional Ecological Information.		
Environmental precautions	See Section 12 for additional Ecological Information.		

## 7. Handling and storage

<u>Handling</u> Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice.
<u>Storage</u> Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.

	8. Exposure controls/personal protection
Engineering controls	Showers Eyewash stations
Exposure guidelines	Ventilation systems. This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Biological occupational exposure limits	This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies
Environmental exposure controls Personal Protective Equipment	No information available.
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/face protection	No special protective equipment required.

#### Skin and body protection

No special protective equipment required.

## 9. Physical and chemical properties

## Information on basic physical and chemical properties

Appearance Physical state Color Odor Odor Threshold <u>Property</u> Melting point / freezing point Boiling point/boiling range (°C)	Clear, colorless Liquid Clear Odorless No information available <u>Values</u>	Remarks • Method No information available No information available
Flammability (solid, gas)		No information available
Upper/lower flammability or explosi Upper flammability limit: Lower flammability limit:	ive limits	
Flash point		ASTM D 56
Evaporation Rate		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
pH Viscosity		No information available
Kinematic viscosity		No information available
Dynamic Viscosity		No information available
Water solubility		No information available
Solubility in other solvents		No information available
Partition Coefficient		No information available
(n-octanol/water)		
Vapor pressure		No information available
Vapor density		No information available
Relative density Particle characteristics		No information available
Particle Size		Not applicable
Particle Size Distribution		Not applicable
Other information		
Explosive properties	No information available	
Oxidizing properties	No information available	
	10. Stability and reac	tivity

No information available. Reactivity Chemical stability Stable under normal conditions. Possibility of hazardous reactions None under normal processing. Incompatible materials None known based on information supplied. Hazardous Decomposition Products None known based on information supplied. **Explosion Data** Sensitivity to static discharge None. Sensitivity to mechanical impact None.

11. Toxicological information

Acute toxicity

Numerical measures of toxicity - Product Information

## The following values are calculated based on chapter 3.1 of the GHS documentATEmix (oral)61,014.00 mg/kg

0.05448 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

4.99338 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

4.99338 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

4.99338 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

4.99338 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
TRADE SECRET	= 2600 mg/kg (Rat)	-	-
Abbreviations and acronyms Rat: Rat			
Symptoms	No information available.		
Product Information			
Ingestion	Specific test data for the s	substance or mixture is not availab	ble.
Inhalation	Specific test data for the s	substance or mixture is not availab	ble.
Skin contact	Specific test data for the s	substance or mixture is not availab	ble.
Eye contact	Specific test data for the s	substance or mixture is not availab	ble.
Skin corrosion/irritation	Based on available data, t	the classification criteria are not m	net. Classification not possible.
Serious eye damage/eye irritation	Based on available data, t	the classification criteria are not m	net. Classification not possible.
Respiratory or skin sensitization	Classification not possible		
Germ cell mutagenicity	Based on available data, t	the classification criteria are not m	net. Classification not possible.
Carcinogenicity	Based on available data, t	the classification criteria are not m	net. Classification not possible.
Reproductive toxicity	Based on available data, t	the classification criteria are not m	net. Classification not possible.
STOT - single exposure	Based on available data, t	the classification criteria are not m	net. Classification not possible.
STOT - repeated exposure	Based on available data, t	the classification criteria are not m	net. Classification not possible.
Aspiration hazard	Based on available data, t	the classification criteria are not m	et. Classification not possible.

## 12. Ecological information

Ecotoxicity

Classification not possible.

 Percentage for unknown
 1.26588 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Crustacea
TRADE SECRET	2500: 72 h Desmodesmus subspicatus mg/L EC50		825: 48 h Daphnia magna mg/L EC50 83: 48 h Daphnia magna mg/L EC50 Static
		macrochinus my/L LCOU static	

Persistence and degradability	No information available.		
Bioaccumulation	No information available.		
Hazardous to the ozone layer Other adverse effects	Classification not possible. Based on available data, the classification criteria are not met. No information available.		
	13. Disposal considerations		
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.		
Contaminated packaging	Do not reuse empty containers.		
14. Transport information			
IMDG	Not regulated		
ADR	Not regulated		

 IATA
 Not regulated

 Japan
 Not regulated

## 15. Regulatory information

## National regulations

Pollutant Release and Transfer Registry (PRTR) Not applicable

Industrial Safety and Health Law Not applicable ISHL Notifiable Substances Not applicable

Poisonous and Deleterious Substances Control Law Not applicable

Fire Service Law: Not applicable

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (CSCL) Not applicable

Act on Prevention of Marine Pollution and Maritime Disaster Not applicable

## International Regulations

## The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories IECSC

#### 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

Maximum limit value

Sensitizers

Revision Date Revision Note		2021-02-05 No information available.	
Key or legend to a Legend Section 8: TWA *	abbreviations and ac EXPOSURE CONTR Time weighted avera Skin designation	<b>cronyms used in the sa</b> ROLS/PERSONAL PROT age	fety data sheet ECTION Ceiling +

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 Chemicals Agency** 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

#### **Disclaimer**

This SDS complies with the requirements of JIS Z 7253:2019 (Japan). 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.

#### Notice to Purchaser:

Our products are to be used for research purposes only. They may not be used for any other purpose, including, but not limited to, use in drugs, in vitro diagnostic purposes, therapeutics, or in humans. Our products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without our prior written

approval. Your use of this product is also subject to compliance with the licensing requirements described on the product's web page. It is your responsibility to review, understand and adhere to any restrictions imposed by these statements. All other marks are the property of their respective owners. Certain trademarks may not be registered in all jurisdictions.