

# Safety Data Sheet

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

> Revision Date 2021-02-08 Revision Number 6

### 1. Identification

Product Name Product Code 5X First-Strand Buffer (RNase-Free) ST0622 7732-18-5 No information available

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

#### Supplier

CAS-No

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 classified	
Acute toxicity - Oral	Not classified
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	Not classified
Acute aquatic toxicity	Classification not possible
Chronic aquatic toxicity	Not classified chronic
Ozone	Classification not possible

#### GHS label elements

Hazard Statements Not classified

#### 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	e Mix	ture				
CAS-No	773	32-18-5				
Chemical name	CAS No	Weight-%	ENCS Inventory	ENCS Number	ISHL Inventory	ISHL No
Potassium chloride	7447-40-7	1 - 5	Existing	(1)-228	Existing	(1)-228

### 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			
	6. Accidental release measures			
Personal precautions, protective equipment and emergency procedures	6. Accidental release measures Ensure adequate ventilation.			
equipment and emergency				
equipment and emergency procedures	Ensure adequate ventilation.			
equipment and emergency procedures For emergency responders	Ensure adequate ventilation. Use personal protection recommended in Section 8.			
equipment and emergency procedures For emergency responders Environmental precautions	Ensure adequate ventilation. Use personal protection recommended in Section 8. See Section 12 for additional Ecological Information.			

7. Handling and storag	ae	stora	and	Handling	7.
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<u>Handling</u> Advice on safe handling Storage	Handle in accordance with good industrial hygiene and safety practice.
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 Skin and body protection	No special protective equipment required. No special protective equipment required.		

#### Physical and chemical properties Information on basic physical and chemical properties Appearance Clear, colorless **Physical state** Liquid Color Clear Odor Odorless **Odor Threshold** No information available Property Values Remarks • Method Melting point / freezing point No information available Boiling point/boiling range (°C) No information available Flammability (solid, gas) No information available Upper/lower flammability or explosive limits Upper flammability limit: Lower flammability limit: Flash point ASTM D 56 No information available **Evaporation Rate** No information available Autoignition temperature **Decomposition temperature** No information available No information available pН Viscosity No information available **Kinematic viscosity** 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** No information available Particle characteristics **Particle Size** Not applicable **Particle Size Distribution** Not applicable Other information No information available **Explosive properties** No information available **Oxidizing properties** 10. Stability and reactivity Reactivity No information available.

 Reactivity
 No information available.

 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

 Sensitivity to mechanical impact None.
 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 document<br/>ATEmix (oral)62,956.40 mg/kg

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity 5.82375 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

5.82375 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

5.82375 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

5.82375 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium chloride	= 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 availal	ble.
Inhalation	Specific test data for the s	substance or mixture is not availal	ble.
Skin contact	Specific test data for the s	substance or mixture is not availal	ble.
Eye contact	Specific test data for the s	substance or mixture is not availal	ble.
Skin corrosion/irritation	Based on available data,	the classification criteria are not n	net. Classification not possible.
Serious eye damage/eye irritatio	n Based on available data,	the classification criteria are not n	net. Classification not possible.
Respiratory or skin sensitizatior	Classification not possible	9.	
Germ cell mutagenicity	Based on available data,	the classification criteria are not n	net. Classification not possible.
Carcinogenicity	Based on available data,	the classification criteria are not n	net. Classification not possible.
Reproductive toxicity	Based on available data,	the classification criteria are not n	net. Classification not possible.
STOT - single exposure	Based on available data,	the classification criteria are not n	net. Classification not possible.
STOT - repeated exposure	Based on available data,	the classification criteria are not n	net. Classification not possible.
Aspiration hazard	Based on available data,	the classification criteria are not n	net. Not classified.
	12. Ecologic	al information	
Ecotoxicity	Classification not possible	).	

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

hazarda	environmont		
hazards Chemical name	environment. Algae/aquatic plants	Fish	Crustacea
Potassium chloride	2500: 72 h Desmodesmus subspicatus mg/L EC50	750 - 1020: 96 h Pimephales promelas mg/L LC50 static 1060: 96 h Lepomis macrochirus mg/L LC50 static	825: 48 h Daphnia magna mg/L EC50 83: 48 h Daphnia magna mg/L EC50 Static
Persistence and degradability	No information available.		
Bioaccumulation	No information available.		
Hazardous to the ozone layer Other adverse effects	Classification not possible No information available.	e. Based on available data, the cla	assification criteria are not met.
	13. Disposal o	considerations	
Waste from residues/unused products	Dispose of in accordance environmental legislation.	with local regulations. Dispose of	f waste in accordance with
Contaminated packaging	Do not reuse empty conta	iners.	
	14. Transpo	rt information	
IMDG	Not regulated		
ADR	Not regulated		
IATA	Not regulated		
<u>Japan</u>	Not regulated		
	15. Regulato	ry information	
National regulations			
Pollutant Release and Transfer Not applicable	Registry (PRTR)		
Industrial Safety and Health Law Not applicable ISHL Notifiable Substances Not applicable	N		
Poisonous and Deleterious Substances Control Law Not applicable			
Fire Service Law: Not applicable			
Act on the Evaluation of Chemic Not applicable	cal Substances and Regulatic	on of Their Manufacture, etc. (C	SCL)
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

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

Revision Date	2021-02-08
Revision Note	No information available.

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

Legend	Section 8: EXPOSURE CONTROLS/PERSO	NAL PROTECTION	
TWA	Time weighted average	Ceiling	Maximum limit value
*	Skin designation	+	Sensitizers

#### 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

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End of Safety Data Sheet