

Safety Data Sheet

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

> Revision Date 2021-02-06 Revision Number 8

1. Identification

Product Name Product Code 10X LA PCR™ Buffer II (Mg2+ plus) SD1430 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 usesFor research use only. Not for use in diagnostic proceduresRestrictions on useNo information available

2. Hazard(s) identification

GHS Classification

Not classified	
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

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		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	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	storage
1.	rianunig	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	No information available.	
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/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 Mild amine **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.

 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.

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
ATEmix (oral)59,594.60 mg/kg

0.73926~% of the mixture consists of ingredient(s) of unknown acute oral toxicity 6.79626~% of the mixture consists of ingredient(s) of unknown acute dermal toxicity

8.64622 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas) 8.64622 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

8.64622 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
TRADE SECRET	= 2840 mg/kg (Rat)	> 2000 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, t	the classification criteria are not n	net. Classification not possible.
Serious eye damage/eye irritatio	n Based on available data, t	the classification criteria are not n	net. Classification not possible.
Respiratory or skin sensitization	n Classification not possible		
Germ cell mutagenicity	Based on available data, t	the classification criteria are not n	net. Classification not possible.
Carcinogenicity	Based on available data, t	the classification criteria are not n	net. Classification not possible.
Reproductive toxicity	Based on available data, t	the classification criteria are not n	net. Classification not possible.
STOT - single exposure	Based on available data, t	the classification criteria are not n	net. Classification not possible.
STOT - repeated exposure	Based on available data, t	the classification criteria are not n	net. Classification not possible.
Aspiration hazard	Based on available data, t	the classification criteria are not n	net. Classification not possible.

	12. Ecological information
Ecotoxicity	Classification not possible.
Percentage for unknown	0.73926 % of the mixture consists of component(s) of unknown hazards to the aquatic

hazards	environment.		
Chemical name	Algae/aquatic plants	Fish	Crustacea
TRADE SECRET	-	123 - 128: 96 h Poecilia	14: 48 h Daphnia magna mg/L
		reticulata mg/L LC50 semi-static	LC50
		32.2 - 41.9: 96 h Oncorhynchus	
		mykiss mg/L LC50 flow-through	
		5.2 - 8.2: 96 h Oncorhynchus	
		mykiss mg/L LC50 static 126:	
		96 h Poecilia reticulata mg/L	
		LC50 18: 96 h Cyprinus carpio	
		mg/L LC50 250: 96 h	
		Brachydanio rerio mg/L LC50	
		420: 96 h Brachydanio rerio	
		mg/L LC50 semi-static 480: 96	
		h Brachydanio rerio mg/L LC50	
		flow-through 100: 96 h	
		Pimephales promelas mg/L	
		LC50	

Persistence and degradability

No information available.

There is no data for this product.

Bioaccumulation Component Information

Chemical name	Partition coefficient
TRADE SECRET	-5.1

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 Water Pollution Control Act Hazardous substance per Water Pollution Control Law article 2 and Enforcement Order article 2

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

Revision Date Revision Note 2021-02-06 No information available.

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

Legend	Section 8: EXPOSURE CONTROLS/PERSON	AL PROTECTION
TWA	Time weighted average	Ceiling
*	Skin designation	+

Maximum limit value 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

Disclaimer

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End of Safety Data Sheet