

Safety Data Sheet

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

Revision Date 2021-02-06 Revision Number 6

1. Identification

Product Name Product Code CAS-No 2X PCR Buffer SD2267 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 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
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

PreventionNot applicable

Response • Not applicable Storage • Not applicable Disposal • Not applicable

<u>Other hazards</u> No information available.

3. Composition/information on ingredients

Pure substance/mixture CAS-No

Mixture 7732-18-5

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.
Environmental precautions	See Section 12 for additional Ecological Information.
Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and storage

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

8. Exposure controls/personal protection

Engineering controls Exposure guidelines	Showers Eyewash stations 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 <u>Personal Protective Equipment</u> Respiratory protection Eye/face protection Skin and body protection	No information available. No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. No special protective equipment required. No special protective equipment required.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance Physical state Color Odor Odor Threshold	No information available No information available No information available No information available No information available	
<u>Property</u> Melting point / freezing point Boiling point/boiling range (°C) Flammability (solid, gas)	<u>Values</u>	<u>Remarks</u> • <u>Method</u> No information available No information available 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	215 °C / 419 °F	No information available
Decomposition temperature		No information available
рН		No information available
Viscosity		
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		No information available
Particle characteristics		
Particle Size		Not applicable
Particle Size Distribution		Not applicable
Other information		

Explosive properties

Oxidizing properties

No information available No information available

10. Stability and reactivity

ReactivityNo information available.Chemical stabilityStable under normal conditions.Possibility of hazardous reactionsNone under normal processing.Incompatible materialsNone known based on information supplied.Hazardous Decomposition ProductsNone known based on information supplied.Explosion Data
Sensitivity to static dischargeNone.

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

6.14785 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

18.35925 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

18.35925 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

18.35925 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

18.35925 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Symptoms	No information available.
Product Information	
Ingestion	Specific test data for the substance or mixture is not available.
Inhalation	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin corrosion/irritation	Based on available data, the classification criteria are not met. Classification not possible.
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met. Classification not possible.
Respiratory or skin sensitization	Classification not possible.
Germ cell mutagenicity	Based on available data, the classification criteria are not met. Classification not possible.
Carcinogenicity	Based on available data, the classification criteria are not met. Classification not possible.
Reproductive toxicity	Based on available data, the classification criteria are not met. Classification not possible.
STOT - single exposure	Based on available data, the classification criteria are not met. Classification not possible.
STOT - repeated exposure	Based on available data, the classification criteria are not met. Classification not possible.
Aspiration hazard	Based on available data, the classification criteria are not met. Classification not possible.

12. Ecological information		
Ecotoxicity	Classification not possible.	
Percentage for unknown hazards	0.29035 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.	
Persistence and degradability	No information available.	
Bioaccumulation	There is no data for this product.	
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 productsDispose 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		
ΙΑΤΑ	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 Air Pollution Control Law Air pollutants with regulated emissions standards, Air Pollution Control Act article 3 Volatile organic compound per Air Pollution Control Law article 2, paragraph 4

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

	1	6. Other information	n
Revision Date Revision Note			
	o abbreviations and acronyms us 8: EXPOSURE CONTROLS/PERS		et
TWA	Time weighted average	Ceiling	Maximum limit value
*	Skin designation	+	Sensitizers
**	Hazard Designation		
Key literature re	eferences and sources for data us	ed to compile the SDS	
	Substances and Disease Registry (
U.S. Environmen	tal Protection Agency ChemView D	atabase	
European Chemi	icals Agency		
European Food S	Safety Authority (EFSA)		
	ntal Protection Agency)		
	Guideline Level(s) (AEGL(s))		
	tal Protection Agency Federal Insec		denticide Act
	tal Protection Agency High Producti	on Volume Chemicals	
Food Research			
Hazardous Subs			
	form Chemical Information Database	e (IUCLID)	
Japan GHS Clas			
	al Industrial Chemicals Notification a		NICNAS)
	Institute for Occupational Safety an		
	of Medicine's ChemID Plus (NLM CI		
	of Medicine's PubMed database (NL		
National Toxicol	ogy Program (NTP) Chemical Classification and Informati	ion Databasa (CCID)	
	Economic Co-operation and Develo		b and Safaty Publications
	Economic Co-operation and Develo		
	Economic Co-operation and Develo		
World Health Org			
Disclaimer			
This SDS compli	as with the requirements of IIS 7.72	253·2010 (Janan) The info	prmation provided in this Safety Data Sheet is cor

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.

End of Safety Data Sheet