

Safety Data Sheet

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

Revision Date 2021-02-06 Revision Number 5

1. Identification

Product Name Product Code CAS-No 5X T4 PNK Buffer SD2271 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 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

Mixture

CAS-NO	113	32-18-5				
Chemical name	CAS No	Weight-%	ENCS Inventory	ENCS Number	ISHL Inventory	ISHL No
Magnesium chloride hexahydrate	7791-18-6	1 - 5	Existing	(1)-233	Existing	(1)-233

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

<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 Ventilation systems.
Exposure guidelines	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.

9. Physical and chemical properties

Remarks • Method

No information available

No information available No information available

No information available

No information available

No information available

No information available

No information available

No information available

Not applicable

Not applicable

ASTM D 56

Information on basic physical and chemical properties

Appearance	Clear, colorless
Physical state	Liquid
Color	Clear
Odor	Unpleasant
Odor Threshold	No information available

Property Values Melting point / freezing point Boiling point/boiling range (°C) Flammability (solid, gas) Upper/lower flammability or explosive limits Upper flammability limit: Lower flammability limit: Flash point **Evaporation Rate** Autoignition temperature **Decomposition temperature** pН Viscosity Kinematic viscosity Dynamic Viscosity Water solubility Solubility in other solvents Partition Coefficient (n-octanol/water) Vapor pressure Vapor density **Relative densitv Particle characteristics Particle Size Particle Size Distribution**

Other information

Explosive	properties
Oxidizing	properties

No information available No information available

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
 None.

 Sensitivity to static discharge
 None.

Sensitivity to mechanical impact None.

11. Toxicological information

Acute toxicity

Numerical measures of toxicity - Product Information

0.29375 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

4.3388 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity 4.3388 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

4.3388 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
4.3388 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Magnesium chloride hexahydrate	= 8100 mg/kg (Rat)	-	-
Abbreviations and acronyms Rat: Rat			
Symptoms	No information available.		
Product Information			
Ingestion	Specific test data for the s	ubstance or mixture is not availab	ble.
Inhalation	Specific test data for the s	ubstance or mixture is not availab	ble.
Skin contact	Specific test data for the s	ubstance or mixture is not availab	ble.
Eye contact	Specific test data for the s	ubstance or mixture is not availab	ble.
Skin corrosion/irritation	Based on available data, t	he classification criteria are not m	et. Classification not possible.
Serious eye damage/eye irritatio	n Based on available data, t	he classification criteria are not m	net. Classification not possible.
Respiratory or skin sensitizatior	Classification not possible		
Germ cell mutagenicity	Based on available data, t	he classification criteria are not m	net. Classification not possible.
Carcinogenicity	Based on available data, t	he classification criteria are not m	net. Classification not possible.
Reproductive toxicity	Based on available data, t	he classification criteria are not m	net. Classification not possible.
STOT - single exposure	Based on available data, t	he classification criteria are not m	net. Classification not possible.
STOT - repeated exposure	Based on available data, t	he classification criteria are not m	net. Classification not possible.
Aspiration hazard	Based on available data, t	he classification criteria are not m	net. Classification not possible.

12. Ecological information		
Ecotoxicity	Classification not possible.	
Percentage for unknown	0.29375 % of the mixture consists of component(s) of unknown hazards to the aquatic	

SD2271 - 5X T4 PNK Buffer

hazards	environment.			
Chemical name	Algae/aquatic plants	Fish	Crustacea	
Magnesium chloride	82.7: 72 h Pseudokirchneriella	1970 - 3880: 96 h Pimephales	140: 48 h Daphnia magna mg/L	
hexahydrate	subcapitata mg/L EC50	promelas mg/L LC50 static	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.	. Based on available data, the cla	assification criteria are not met.	
13. Disposal considerations				
Waste from residues/unused products	sidues/unused Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.			
Contaminated packaging	Do not reuse empty conta	iners.		
	14. Transpor	t information		
IMDG	Not regulated			
ADR	Not regulated			
IATA	Not regulated			
<u>Japan</u>	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				
	1	6. Other information		
Revision Date Revision Note	2021-02-06 No information	n available.		
Key or legend to at Legend Section 8: E	breviations and acronyms use EXPOSURE CONTROLS/PERSC	ed in the safety data shee DNAL PROTECTION	t	
TWA 1	Fime weighted average Skin designation	Ceiling +	Maximum limit value Sensitizers	
Agency for Toxic Sul U.S. Environmental European Chemicals European Food Safe EPA (Environmental Acute Exposure Guid U.S. Environmental Food Research Jour Hazardous Substand International Uniform Japan GHS Classific Australia National Ins NIOSH (National Ins National Library of M National Library of M National Toxicology New Zealand's Cher Organization for Eco	ety Authority (EFSA) Protection Agency) deline Level(s) (AEGL(s)) Protection Agency Federal Insect Protection Agency High Production nal the Database on Chemical Information Database tation dustrial Chemicals Notification and titute for Occupational Safety and ledicine's ChemID Plus (NLM CIF ledicine's PubMed database (NLI Program (NTP) nical Classification and Information nomic Co-operation and Develop nomic Co-operation and Develop	ATSDR) Itabase icicide, Fungicide, and Rode on Volume Chemicals (IUCLID) Ind Assessment Scheme (N d Health) P) M PUBMED) on Database (CCID) oment Environment, Health oment High Production Volu	IICNAS) , and Safety Publications ume Chemicals Program	

<u>Disclaimer</u>

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