

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 NameRetro-X™ Reverse Titer primerProduct CodeST0189CAS-No7732-18-5Registration numberNo information availableDetails 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 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 turnou 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

<u>Handling</u>	
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	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.	

9. Physical and chemical properties

Information on basic physical and chemical properties

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

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			
Sensitivity to static discharge	None.		
Sensitivity to mechanical impact None.			

11. Toxicological information

Acute toxicity

Numerical measures of toxicity - Product Information

0.83438 % of the mixture consists of ingredient(s) of unknown acute oral toxicity 0.83438 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity 0.83438 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas) 0.83438 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor) 0.83438 % 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	0.83438 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.	
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		
ΙΑΤΑ	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

16. Other information			
Revision Date Revision Note	2021-02-0 No informa	8 ation available.	
	abbreviations and acronyms EXPOSURE CONTROLS/PEF Time weighted average Skin designation		et Maximum limit value Sensitizers
Agency for Toxic S U.S. Environmenta European Chemic European Food Sa EPA (Environmenta Acute Exposure G U.S. Environmenta Food Research Jo Hazardous Substa International Unifo Japan GHS Classi Australia National NIOSH (National I National Library of National Library of National Toxicolog New Zealand's Ch Organization for E	erences and sources for data Substances and Disease Registri al Protection Agency ChemView als Agency afety Authority (EFSA) al Protection Agency) uideline Level(s) (AEGL(s)) al Protection Agency Federal Ins al Protection Agency High Produ urnal nce Database rm Chemical Information Databa fication Industrial Chemicals Notification hstitute for Occupational Safety Medicine's ChemID Plus (NLM Medicine's PubMed database (y Program (NTP) emical Classification and Inform conomic Co-operation and Deve conomic Co-operation and Deve	used to compile the SDS ry (ATSDR) Database secticide, Fungicide, and Roduction Volume Chemicals ase (IUCLID) n and Assessment Scheme (N and Health) CIP) NLM PUBMED) nation Database (CCID) elopment Environment, Health elopment High Production Vol	enticide Act NICNAS) h, and Safety Publications lume Chemicals Program
Dissistation			

Disclaimer

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End of Safety Data Sheet