

Safety Data Sheet This safety data sheet complies with the requirements of:

JIS Z 7253:2019

Revision Date 2021-02-07 **Revision Number** 4

1. Identification

Product Name	PrimeScript™ II RTase
Product Code	SD4638
Registration number	No information available
Details of the supplier of the safety	y 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 (Beiji Life Science Park, 22 KeXueYuan R 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 chemica	al and restrictions on use
Identified uses	For research use only. Not for use in diagnostic procedures
Restrictions on use No information	n available

2. Hazard(s) identification

GHS Classification	
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)	Category 4
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



Signal word

Warning

Hazard Statements

Harmful if inhaled

Prevention

- Avoid breathing dust/fume/gas/mist/vapors/spray
- · Use only outdoors or in a well-ventilated area

Response

- Not applicable
- IF INHALED: Remove person to fresh air and keep comfortable for breathing
- Call a POISON CENTER or doctor if you feel unwell

Storage

Not applicable

Disposal

Not applicable

Other hazards

No information available.

3. Composition/information on ingredients

Pure substance/mixture	e Mix	ture				
Chemical name	CAS No	Weight-%	ENCS Inventory	ENCS Number	ISHL Inventory	ISHL No
Tween 20	9005-64-5	1 - 5	Existing	(8)-55	Existing	(8)-55

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

<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 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	
<u>Property</u> 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		ASTM D 56
Evaporation Rate		No information available
Autoignition temperature	392.8 °C / 739 °F	No information available
Decomposition temperature		No information available
pH		No information available
Viscosity		
Kinematic viscosity		No information available No information available
Dynamic Viscosity		
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		
–	N	

Explosive properties Oxidizing properties No information available No information available

10. Stability and reactivity

Reactivity Chemical stability Possibility of hazardous reactions	No information available. Stable under normal conditions. 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	t 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)	19,861.10 mg/kg
ATEmix (dermal)	15,863.70 mg/kg
ATEmix (inhalation-dust/mist)	4.3624 mg/l

2.02098 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
3.02098 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
66.12098 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
66.12098 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
3.02098 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	
Tween 20	= 37000 mg/kg (Rat)	-	-	
Symptoms	No information available.			
roduct Information				
Ingestion	Specific test data for the sub	ostance or mixture is not available.		
Inhalation	Specific test data for the sub	ostance or mixture is not available.		
Skin contact	Specific test data for the sub	Specific test data for the substance or mixture is not available.		
Eye contact	Specific test data for the sub	ostance or mixture is not available.		
kin corrosion/irritation	Based on available data, the	e classification criteria are not met.	Classification not possible	
erious eye damage/eye irritation	Based on available data, the	e classification criteria are not met.	Classification not possible	
espiratory or skin sensitization	Classification not possible.			
erm cell mutagenicity	Based on available data, the	e classification criteria are not met.	Classification not possible	
arcinogenicity	Based on available data, the	e classification criteria are not met.	Classification not possible	
eproductive toxicity	Based on available data, the	e classification criteria are not met.	Classification not possible	
arget organ effects TOT - single exposure	Kidney. Respiratory system.	Eyes. Skin. e classification criteria are not met.	Classification not possible	

STOT - repeated exposure

Based on available data, the classification criteria are not met. Classification not possible.

Based on available data, the classification criteria are not met. Classification not possible.

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12. Ecological information				
Ecotoxicity	Classification not possible.			
Percentage for unknown hazards	0.02098 % 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 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
<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)

The table below indicates in	gredients above the cut-off threshold considered as relevant w	hich are listed

Chemical name	CAS No	Chemical Substances Control Law
Tween 20	9005-64-5	Priority assessment chemical substance

Act on Prevention of Marine Pollution and Maritime Disaster Not applicable Air Pollution Control Law 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

16. Other information

Revision Date Revision Note 2021-02-07 No information available.

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

Legend	Section 8: EXPOSURE CONTROLS/PERSON		
TŴA	Time weighted average	Ceiling	Maximum limit value
*	Skin designation	+	Sensitizers
**	Hazard Designation		

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

This SDS complies with the requirements of JIS Z 7253:2019 (Japan). The information provided in this Safety Data Sheet is correct

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End of Safety Data Sheet