

Safety Data Sheet

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

> Revision Date 2021-02-08 **Revision Number** 5

1. Identification

Recombinant DNase I (RNase-Free) **Product Name** Product Code ST1231 **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 In case of emergency, call PERS (Professional Emergency Resource Services) **Emergency telephone number** 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	
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

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

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

3. Composition/information on ingredients

Pure substance/mixture

Mixture

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, No information available. acute and delayed

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.
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Prevention of secondary hazards Clean contaminated objects and a	areas thoroughly observing environmental regulations.
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7. Handling and storage

<u>Handling</u> Advice on safe handling Storage	Handle in accordance with good industrial hygiene and safety practice.
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
Personal Protective Equipment
Respiratory protectionNo information available.Respiratory protectionNo 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 protectionNo special protective equipment required.Skin and body protectionNo 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 Unpleasant No information available	
<u>Property</u> Melting point / freezing point Boiling point/boiling range (°C) Flammability (solid, gas) Upper/lower flammability or explos Upper flammability limit: Lower flammability limit:	<u>Values</u> ive limits	Remarks • Method No information available No information available No information available
Flash point Evaporation Rate Autoignition temperature Decomposition temperature pH	392.8 °C / 739 °F	ASTM D 56 No information available No information available No information available No information available
Viscosity Kinematic viscosity Dynamic Viscosity Water solubility Solubility in other solvents		No information available No information available No information available No information available No information available
Partition Coefficient (n-octanol/water) Vapor pressure Vapor density Relative density Particle characteristics		No information available No information available No information available No information available
Particle Size Particle Size Distribution Other information		Not applicable 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

 Sensitivity to mechanical impact None.
 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) 19,968.30 mg/kg ATEmix (dermal) 15,863.70 mg/kg ATEmix (inhalation-dust/mist) 4.3624 mg/l 1.36405 % of the mixture consists of ingredient(s) of unknown acute oral toxicity 1.36405 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity 64.46405 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas) 64.46405 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor) 1.36405 % 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.	
Target organ effects STOT - single exposure	Kidney. Respiratory system. Eyes. Skin. 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	0.36405 % 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		
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 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

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Revision Date Revision Note	2021-02-08 No information	available.		
	abbreviations and acronyms used EXPOSURE CONTROLS/PERSON		et	
TWA	Time weighted average	Ceiling	Maximum limit value	
*	Skin designation	+	Sensitizers	
**	Hazard Designation			
Agency for Toxic S U.S. Environmenta European Chemica 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 In National Library of National Library of National Library of National Toxicolog New Zealand's Ch Organization for Ed Organization for Ed World Health Orga	afety Authority (EFSA) al Protection Agency) uideline Level(s) (AEGL(s)) al Protection Agency Federal Insection al Protection Agency High Production urnal nce Database rm Chemical Information Database (fication Industrial Chemicals Notification and stitute for Occupational Safety and Medicine's ChemID Plus (NLM CIP) Medicine's PubMed database (NLM y Program (NTP) emical Classification and Information conomic Co-operation and Developm conomic Co-operation and Developm	TSDR) abase cide, Fungicide, and Rom Nolume Chemicals (IUCLID) d Assessment Scheme (Health) N I PUBMED) n Database (CCID) nent Environment, Heal nent High Production Vo	NICNAS) th, and Safety Publications plume Chemicals Program	
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End of Safety Data Sheet