

Safety Data Sheet

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

Classification not possible

No effects on or via lactation

Revision Date 2021-06-16

Revision Number 5

1. Identification

Product Name	Exonuclease I		
Product Code	SD0591		
Registration number	gistration number No information available		
Details of the supplier of the safety	<u>/ data sheet</u>		
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	ng) Co., Ltd.		
Life Science Park, 22 KeXueYuan Road, Changping District,			
Beijing 102206, China			
Phone: +86 10 8072 0980			
Web: www.takarabiomed.com.cn			
mergency telephone number In case of emergency, call PERS (Professional Emergency Resource Services) 1-800-633-8253 (US) or 801-629-0667 (international).			
	1-800-833-8255 (03) 01 801-829-		
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 available			
	2. Hazard(s) identi	fication	
GHS Classification			
Classification not possible			
cute toxicity - Dermal Classification not possible			
	Classification not applicable		
	cute toxicity - Inhalation (Vapors) Classification not possible		
· · · ·	cute toxicity - Inhalation (Dusts/Mists) Classification not possible		
	kin corrosion/irritation Classification not possible		
erious eye damage/eye irritation Classification not possible			
Respiratory sensitization Classification not possible			

GHS label elements

Skin sensitization

Carcinogenicity

Aspiration hazard

Ozone

Acute aquatic toxicity

Chronic aquatic toxicity

Germ cell mutagenicity

Reproductive toxicity

Effects on or via lactation

Specific target organ toxicity (single exposure)

Specific target organ toxicity (repeated exposure)



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

<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		
	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 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	No information available.
Personal Protective Equipment	
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	No special protective equipment required.
Skin and body protection	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 Unpleasant No information available	
Property	Values	Remarks • Method
Melting point / freezing point	No data available	No information available
Boiling point/boiling range (°C)	No data available	No information available
Flammability (solid, gas)	No data available	No information available
Upper/lower flammability or explosit		
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Flash point	No data available	ASTM D 56
Evaporation Rate	No data available	No information available
Autoignition temperature	392.8 °C / 739 °F	No information available
Decomposition temperature	No data available	No information available
pH	No data available	No information available
Viscosity		.
Kinematic viscosity	No data available	No information available
Dynamic Viscosity		No information available
Water solubility	No data available	No information available
Solubility in other solvents	No data available	No information available
Partition Coefficient	No data available	No information available
(n-octanol/water)	NI 17 111	
Vapor pressure	No data available	No information available
Vapor density	No data available	No information available
Relative density	No data available	No information available
Particle characteristics	NI 17 111	
Particle Size	No data available	Not applicable
Particle Size Distribution	No data available	Not applicable
Other information		
Explosive properties	No information available	
Oxidizing properties	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.

11. Toxicological information

<u>Acute toxicity</u> Classification not possible.

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

1.62368 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
1.62368 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
64.72368 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
64.72368 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
1.62368 % 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	0.62368 % 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

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	

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

2021-06-16

No information available.

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Legend	Section 8: EXPOSURE CONTROLS/PERSONA	AL PROTECTION
TWA	Time weighted average	Ceiling
*	Skin designation	+
**	Hazard Designation	

Maximum limit value Sensitizers

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

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End of Safety Data Sheet