

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

JIS Z 7253:2019

Revision Date 2021-06-16 Revision Number 6

1. Identification

Product Name Product Code Registration number	Recombinant RNase Inhibitor SD0586 No information available	
Details of the supplier of the safe	ty 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 (Be Life Science Park, 22 KeXueYuan F Beijing 102206, China Phone: +86 10 8072 0980 Web: www.takarabiomed.com.cn		
Emergency telephone number	1-800-633-8253 (US) or 801-629-	(Professional Emergency Resource Services) 0667 (international).
Recommended use of the chemic Identified uses Restrictions on use No information	For research use only. Not for use	e in diagnostic procedures
	2. Hazard(s) identi	fication
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

Classification not possible
Classification not possible
Classification not possible
No effects on or via lactation
Classification not possible

GHS label elements



Signal word

Warning

Hazard Statements Harmful if inhaled

Precautionary statements

Prevention

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

Response

- 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

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

General advice	Show this safety data sheet to the doctor in attendance.
In case of inhalation	Remove to fresh air. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately.
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.

Never give anything by mouth to an unconscious person. Get medical attention. Most important symptoms/effects, acute and delayed Coughing and/ or wheezing. Difficulty in breathing. Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precaution protect the meseives and prevent spread of contamination. Avoid breathing vapors or Use personal protective equipment as required. See section 8 for more information. Note to physicians Treat symptomatically. 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. Special Extinguishing Media Cool drums with water spray. CAUTION: Use of water spray when fighting fire may be inefficient. Special protective equipment and precentions for fire-fighters Ensure adequate ventilation. Avoid breathing apparatus and full firefighting turne gear. Use personal protection equipment. Personal precautions, protective equipment as required. Ensure adequate ventilation. Avoid breathing vapors or mists. Use personal protective equipment and mergency procedures For emergency responders Use personal protection recommended in Section 8. Environmental precautions See Section 12 for additional Ecological Information. Methods for cleaning up Pick up and transfer to properly l				
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Other information Defaults protective measures listed in Castions 7 and 9	Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.		
Other Information Refer to protective measures listed in Sections 7 and 8.	Other information	Refer to protective measures listed in Sections 7 and 8.		

7. Handling and storage

<u>Handling</u> Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product.
Hygiene Measures <u>Storage</u>	Do not eat, drink or smoke when using this product.
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

available available available

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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 Unpleasant No information available	
Property_	Values_	Remarks • Method
Melting point / freezing point	No data available	No information availabl
Boiling point/boiling range (°C)	No data available	No information availabl
Flammability (solid, gas)	No data available	No information availabl
Upper/lower flammability or explos		
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 availabl
Autoignition temperature	392.8 °C / 739 °F	No information availabl
Decomposition temperature	No data available	No information availabl
рН	No data available	No information availabl
Viscosity		
Kinematic viscosity	No data available	No information availabl
Dynamic Viscosity		No information availabl
Water solubility	No data available	No information availabl
Solubility in other solvents	No data available	No information availabl
Partition Coefficient	No data available	No information availabl
(n-octanol/water)		
Vapor pressure	No data available	No information availabl
Vapor density	No data available	No information availabl
Relative density	No data available	No information availabl
Particle characteristics		
Particle Size	No data available	Not applicable
Particle Size Distribution	No data available	Not applicable
Other information		
Explosive properties Oxidizing properties	No information available No information available	

10. Stability and reactivity			
10. Stability and reactivity Reactivity No information available. Chemical stability Stable under normal conditions. Possibility of hazardous reactions None under normal processing. Conditions to avoid Excessive heat. 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		
Acute toxicity			
Numerical measures of toxicity - F	Product Information		
The following values are calculated based on chapter 3.1 of the GHS documentATEmix (oral)19,968.30 mg/kgATEmix (dermal)15,863.70 mg/kgATEmix (inhalation-dust/mist)4.3624 mg/l			
Unknown acute toxicity 1.97352 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)			
Symptoms	Coughing and/ or wheezing.		
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. Harmful by inhalation. (based on components).		
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.		

Aspiration hazard

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.

12. Ecological information			
Ecotoxicity	Classification not possible.		
Percentage for unknown hazards	0.97352 % 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.		
products	environmental legislation. Do not reuse empty containers.		
products	environmental legislation.		
products	environmental legislation. Do not reuse empty containers.		
products Contaminated packaging	environmental legislation. Do not reuse empty containers. 14. Transport information		
products Contaminated packaging IMDG	environmental legislation. Do not reuse empty containers. 14. Transport information 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		021-06-16 lo information available.			
Key or legend to a Legend Section 8:	Key or legend to abbreviations and acronyms used in the safety data sheet Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION				
TWA	Time weighted avera		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 Gu U.S. Environmenta U.S. Environmenta Food Research Jou Hazardous Substa International Unifor Japan GHS Classif Australia National I NIOSH (National In National Library of National Library of National Toxicology New Zealand's Che	ubstances and Diseas I Protection Agency C Is Agency fety Authority (EFSA) al Protection Agency) uideline Level(s) (AEG I Protection Agency F I Protection Agency F I Protection Agency H urnal nce Database m Chemical Informati ication ndustrial Chemicals N ustitute for Occupation Medicine's ChemID P Medicine's PubMed d y Program (NTP) emical Classification a conomic Co-operation	hemView Database L(s)) ederal Insecticide, Fung igh Production Volume on Database (IUCLID) lotification and Assessm al Safety and Health)	icide, and Rodentic Chemicals nent Scheme (NICN D) e (CCID) ronment, Health, an	IAS) nd Safety Publications	

SD0586 - Recombinant RNase Inhibitor

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 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.

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End of Safety Data Sheet