

## Safety Data Sheet

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

### Revision Date 2021-04-26 Revision Number 1

### 1. Identification

Product Name	RNase Inhibitor
Product Code	ST2186
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 (Beijin	
Life Science Park, 22 KeXueYuan Roa	ad, 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	
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

### 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.

	Consult a physician.		
In case of ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. 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 precautions to protect themselves and prevent spread of contamination. Avoid breathing vapors or mists. Use personal protective equipment as required. See section 8 for more information.		
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. Avoid breathing vapors or mists. Use personal protective equipment as required.		
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.		
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 Storage	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.

	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	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 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 No information available 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 explose	sive limits	
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
рН	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)		
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		
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.         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         None.       Sensitivity to mechanical impact			
	11. Toxicological information		
Acute toxicity			
Numerical measures of toxicity - F	Product Information		
ATEmix (oral) ATEmix (dermal) ATEmix (inhalation-dust/mist) Unknown acute toxicity	<b>I based on chapter 3.1 of the GHS document</b> 19,984.10 mg/kg 15,876.30 mg/kg 4.3659 mg/l		
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	0.02353 % 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	Dispose of in accordance with local regulations. Dispose of waste in accordance with	
products	environmental legislation.	
products Contaminated packaging		
-	environmental legislation. Do not reuse empty containers.	
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Contaminated packaging	environmental legislation. Do not reuse empty containers. 14. Transport information	

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	2021-04-26 No informat	tion available.		
Legend Section 8:	abbreviations and acronyms u EXPOSURE CONTROLS/PER	SONAL PROTECTION		
TWA *	Time weighted average Skin designation	Ceiling +	Maximum limit value Sensitizers	
Agency for Toxic S U.S. Environmenta European Chemica European Food Sa EPA (Environmenta Acute Exposure Gi U.S. Environmenta U.S. Environmenta Food Research Jo Hazardous Substa International Unifor Japan GHS Classi Australia National In NIOSH (National In National Library of National Library of National Toxicolog New Zealand's Cho Organization for Ed	Ifety Authority (EFSA) al Protection Agency) uideline Level(s) (AEGL(s)) Il Protection Agency Federal Insu Il Protection Agency High Produc urnal nce Database rm Chemical Information Databa fication Industrial Chemicals Notification institute for Occupational Safety a Medicine's ChemID Plus (NLM ( Medicine's PubMed database (N	y (ATSDR) Database ecticide, Fungicide, and Ro ction Volume Chemicals use (IUCLID) and Assessment Scheme ( and Health) CIP) NLM PUBMED) ation Database (CCID) lopment Environment, Heal lopment High Production Vo	(NICNAS) th, and Safety Publications olume Chemicals Program	

### World Health Organization

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End of Safety Data Sheet