

Revision Date 2022-09-12

Safety Data Sheet

Revision Number 4

	1. Identification	
A. Product identifier		
Product Name	RNase Inhibitor	
Product Code	SD1038	
B. Relevant identified uses of the substance or mixture and uses advised against		
Identified uses	For research use only. Not for use in diagnostic procedures	
Uses advised against	No information available	
C. Supplier's details		
Supplier Japan: Takara Bio Inc. Nojihigashi 7-4-38 Kusatsu, Shiga 525-0058, Japan Phone: +81.77.565.6972 Web: www.takara-bio.com		
Korea: Takara Korea Biomedical Inc. 601, New T Castle, 108, Gasan Digital 2-ro, Geumcheon-gu Seoul 08506, Korea Phone: +82.2.2081.2525 Web: www.takara.co.kr		
For further information, please contact:		
Emergency telephone number	In case of emergency, call PERS (Professional Emergency Resource Services) 1-800-633-8253 (US) or 801-629-0667 (international).	

2. Hazard(s) identification

A. Classification of the substance or mixture

Acute toxicity - Inhalation (Dusts/Mists)

Category 4

B. GHS Label elements, including precautionary statements

Hazard symbols



Warning

Hazard Statements

H332 - Harmful if inhaled

Precautionary Statements - Prevention

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray P271 - Use only outdoors or in a well-ventilated area

Precautionary Statements - Response

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P312 - Call a POISON CENTER or doctor/physician if you feel unwell

C. Other hazards which do not result in classification

No information available.

3. Composition/information on ingredients

Substance

Not applicable

<u>Mixture</u>

The product contains no substances which at their given concentration, are considered to be hazardous to health.

4. First-aid measures

A. In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

B. In case of skin contact

Wash skin with soap and water.

C. 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.

D. 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.

E. Indication of immediate medical attention and special treatment needed, if necessary General advice Show this safety data sheet to the doctor in attendance.

Note to physicians	Treat symptomatically.
Symptoms	Coughing and/ or wheezing. Difficulty in breathing.
Self-protection of the first aid	er 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.

5. Fire-fighting measures

A. Suitable (and unsuitable) extinguishing media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the	
	surrounding environment.	

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

- **B.** Specific hazards arising from the chemical No information available.
- C. Special Protective Equipment for Firefighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

A. Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation. Avoid breathing vapors or mists. Use personal protective equipment as required.	
Other information	Refer to protective measures listed in Sections 7 and 8.	
For emergency responders	Use personal protection recommended in Section 8.	

B. Environmental precautions

See Section 12 for additional Ecological Information.

C. Methods and material for containment and cleaning up

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

A. Precautions for safe handling

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.

B. Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach
	of children.

General hygiene considerations Do not eat, drink or smoke when using this product.

8. Exposure controls/personal protection

A. Control Parameters

Occupational exposure limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

B. Appropriate engineering controls

E	Engineering controls	Showers Eyewash stations Ventilation systems.
	Environmental exposure controls	No information available.
C. P	C. Personal Protective Equipment	
R	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.
E	Eye protection	No special protective equipment required.
Н	land protection	No special protective equipment required.
В	Body protection	No special protective equipment required.

9. Physical and chemical properties

Information on basic physical and chemical properties

 A. Appearance Physical State Color B. Odor C. Odor Threshold 	Clear, colorless Liquid Clear Unpleasant No information available	
Property_	Values	Remarks • Method
D. pH	No data available	None known
E. Melting point / freezing point	No information available	None known
F. Initial boiling point and boiling	No information available	None known
range		
G. Flash point	No information available	Open cup
H. Evaporation Rate	No information available	None known
I. Flammability (solid, gas)	No information available	None known
J. Upper/lower flammability or exp	losive limits	
Upper flammability limit:		No information available
Lower flammability limit:		No information available
K. Vapor pressure	No information available	None known
L. Solubility(ies)		
Water solubility	No information available	None known
Solubility in other solvents	No information available	None known
M. Vapor density	No information available	None known
N. Specific Gravity	No information available	None known
O. Partition coefficient:	No information available	None known
n-octanol/water		
P. Autoignition Point	392.8 °C / 739 °F	None known
Q. Decomposition temperature		None known
R. Viscosity		
Kinematic viscosity	No information available	None known
Dynamic Viscosity	No information available	None known
S. Molecular weight	No information available	
Other information Explosive properties Oxidizing properties Softening point VOC content	No information available No information available No information available No information available	

Liquid Density

No information available

10. Stability and reactivity

A. Chemical stability and possibility of hazardous reactions

Stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Explosion Data	
Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.
. Conditions to avoid	

B. Conditions to avoid Excessive heat.

C. Incompatible materials

None known based on information supplied.

D. Hazardous Decomposition Products None known based on information supplied

11. Toxicological information

A. Information on the likely routes of exposure

Product Information

Inhalation	Inhalation Specific test data for the substance or mixture is not available. Harmful by inhalation. (based on components).	
Ingestion	Ingestion 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 contact	Specific test data for the substance or mixture is not available.	
Symptoms	Coughing and/ or wheezing.	
B. Health hazards information		
Acute toxicity		
Numerical measures of toxicity		
The following values are calculated based on chapter 3.1 of the GHS documentATEmix (dermal)15,822.80 mg/kgATEmix (inhalation-dust/mist)4.35 mg/l		
Unknown acute toxicity 1.8735 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)		
Skin corrosion/irritation	No information available.	
Serious eye damage/irritation	No information available.	

Respiratory or skin sensitization	No information available.
Carcinogenicity	No information available.
Germ cell mutagenicity	No information available.
Reproductive toxicity	No information available.

Specific target organ toxicity (STOT)No information available. – single exposure

Specific target organ toxicity (STOT)No information available. – repeated exposure

Target organ effects	Kidney. Respiratory system. Eyes. Skin.
Aspiration hazard	No information available.

12. Ecological information

A. Ecotoxicity

Percentage for unknown hazards	0.8735 % of the mixture consists of component(s) of unknown hazards to the aquatic environment	
B. Persistence and degradability	No information available.	
C. Bioaccumulative potential	There is no data for this product.	
D. Mobility in soil	No information available.	
Mobility	No information available.	
E. Other adverse effects	No information available.	

13. Disposal considerations

Α.	Waste treatment methods		
	Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.	
B. Disposal considerations			
	Contaminated packaging	Do not reuse empty containers.	

14. Transport information

- Not regulated A. UN number or ID number
- Not regulated B. UN proper shipping name Not regulated
- C. Transport hazard class(es) Not regulated
- D. Packing group
- E. Marine pollutant Not applicable Not regulated
- F. Special precautions for user

15. Regulatory information

A. Industrial Safety and Health Law Not applicable

Prohibited substance Not applicable

Substances Requiring Permission Not applicable

Harmful substances subject to control Not applicable

Harmful agents subject to work environment monitoring Not applicable

Harmful agents subject to workers requiring health examination Not applicable

Harmful or dangerous substances subject to submission of process safety reports Not applicable **Control parameters**

See section 8 for national exposure control parameters

B. Chemicals Control Act Not applicable Chemicals Control Act (CCA) - Accident Precaution Chemicals Not applicable

Act on Registration, Evaluation, etc. of Chemicals (K-REACH) Not applicable

C. Safety Control of Dangerous Substances Act	Not applicable
D. Wastes Management	Dispose of waste in accordance with environmental legislation.
E. Other Regulations	No information available

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

A. Information source and references

Prepared By

IMDG

No information available.

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

ACGIH (American Conference of Governmental Industrial Hygienists) International Maritime Dangerous Goods (IMDG)

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION TWA Time weighted average STEL Short term exposure limit Ceiling Maximum limit value Skin designation Hazard Designation 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 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

B Revision number and date

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C. Other

Disclaimer

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End of Safety Data Sheet