



Safety Data Sheet

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

Revision Date 2021-02-06
Revision Number 5

1. Identification

Product Name RNase Inhibitor
Product Code SD1038
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

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

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

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

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, acute and delayed No information available.

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.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and storage

Handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Storage

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls/personal protection

Engineering controls Showers
Eyewash stations
Ventilation systems.

Exposure guidelines 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 | Clear, colorless |
| Physical state | Liquid |
| Color | Clear |
| Odor | Unpleasant |
| Odor Threshold | No information available |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|-----------------------------------------------------|-------------------|--------------------------|
| Melting point / freezing point | | No information available |
| Boiling point/boiling range (°C) | | No information available |
| Flammability (solid, gas) | | No information available |
| Upper/lower flammability or explosive limits | | |
| Upper flammability limit: | | |
| Lower flammability limit: | | |
| Flash point | | ASTM D 56 |
| Evaporation Rate | | No information available |
| Autoignition temperature | 392.8 °C / 739 °F | No information available |
| Decomposition temperature | | No information available |
| pH | | No information available |
| Viscosity | | |
| Kinematic viscosity | | No information available |
| Dynamic Viscosity | | No information available |
| Water solubility | | No information available |
| Solubility in other solvents | | No information available |
| Partition Coefficient (n-octanol/water) | | No information available |
| Vapor pressure | | No information available |
| Vapor density | | No information available |
| Relative density | | No information available |
| Particle characteristics | | |
| Particle Size | | Not applicable |
| Particle Size Distribution | | 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 | None. |
| Sensitivity to mechanical impact | 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) | 19,936.70 mg/kg |
| ATEmix (dermal) | 15,838.60 mg/kg |
| ATEmix (inhalation-dust/mist) | 4.3555 mg/l |

1.8735 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

1.8735 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

65.0735 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

65.0735 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

1.8735 % 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 | Kidney. Respiratory system. Eyes. Skin. |
| STOT - single exposure | 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 | 0.8735 % 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 | Classification not possible. Based on available data, the classification criteria are not met. |
| Other adverse effects | 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

| | |
|---------------------|---------------|
| <u>IMDG</u> | Not regulated |
| <u>ADR</u> | Not regulated |
| <u>IATA</u> | Not regulated |
| <u>Japan</u> | 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

Revision Date 2021-02-06
Revision Note No information available.

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

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

| | | | |
|-----|-----------------------|---------|---------------------|
| TWA | Time weighted average | Ceiling | Maximum limit value |
| * | Skin designation | + | Sensitizers |
| ** | Hazard Designation | | |

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