# **園TaKaRa**

# **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 ST2180

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**

<u>One diagonication</u>	
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

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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.

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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.

See Section 12 for additional Ecological Information. **Environmental precautions** 

Methods for containment Prevent further leakage or spillage if safe to do so.

Pick up and transfer to properly labeled containers. Methods for cleaning up

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

Handling

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

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.

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

Storage

**Hygiene Measures** 

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

of children.

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8. Exposure controls/personal protection

Showers **Engineering controls** 

> Evewash stations Ventilation systems.

This product, as supplied, does not contain any hazardous materials with occupational **Exposure guidelines** 

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

**Respiratory protection** 

No information available.

No protective equipment is needed under normal use conditions. If exposure limits are

No information available

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.

# Physical and chemical properties

#### Information on basic physical and chemical properties

**Appearance** Clear, colorless

Physical state Liquid

Color No information available

Odor Unpleasant

**Odor Threshold** No information available

Remarks • Method Property Values 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 explosive 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 No information available No data available

На

Viscosity

No data available Kinematic viscosity

**Dynamic Viscosity** No information available No data available No information available

Water solubility 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** Not applicable No data available

Other information

**Explosive properties** No information available **Oxidizing properties** No information available

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# 10. Stability and reactivity

Reactivity
Chemical stability
Possibility of hazardous reactions
No information available.
Stable under normal conditions.
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 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) 19,984.10 mg/kg ATEmix (dermal) 15,876.30 mg/kg ATEmix (inhalation-dust/mist) 4.3659 mg/l

Unknown acute toxicity

1.02353 % 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 Kidney. Respiratory system. Eyes. Skin.

STOT - single exposure Based on available data, the classification criteria are not met. Classification not possible.

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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

Classification not possible. **Ecotoxicity** 

Percentage for unknown

hazards

0.02353 % of the mixture consists of component(s) of unknown hazards to the aquatic

environment.

No information available. Persistence and degradability

There is no data for this product. Bioaccumulation

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

Not regulated **IMDG** Not regulated <u>ADR</u> Not regulated <u>IATA</u> Not regulated Japan

# 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

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#### 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 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

#### 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

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**End of Safety Data Sheet**