# **B**TaKaRa

# **Safety Data Sheet**

Revision Date 2022-12-13 Revision Number 2

# 1. Identification

A. Product identifier

Product Name RetroNectin GMP grade

Product Code SD6573

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

Not classified

#### B. GHS Label elements, including precautionary statements

Hazard symbols Hazard Statements

Not classified

#### C. Other hazards which do not result in classification

No information available.

# 3. Composition/information on ingredients

#### Substance

Not applicable

#### **Mixture**

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.

#### D. In case of ingestion

Clean mouth with water and drink afterwards plenty of water.

# E. Indication of immediate medical attention and special treatment needed, if necessary

**Symptoms** No information available.

# 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.

**For emergency responders** Use personal protection recommended in Section 8.

#### B. Environmental precautions

See Section 12 for additional Ecological Information.

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C. Methods and material for containment and cleaning up

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 hazardsClean 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.

B. Conditions for safe storage, including any incompatibilities

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

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

# 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

Showers **Engineering controls** 

**Evewash stations** Ventilation systems.

**Environmental exposure** 

controls

No information available.

C. 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 protection No special protective equipment required.

Hand protection No special protective equipment required.

No special protective equipment required. **Body protection** 

# 9. Physical and chemical properties

#### Information on basic physical and chemical properties

Frozen liquid A. Appearance **Physical State** Liquid

No information available Color

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B. Odor Odorless

C. Odor Threshold No information available

Property Values Remarks • Method

D. pH None known E. Melting point / freezing point No information available None known F. Initial boiling point and boiling No information available None known

range

No information available G. Flash point Open cup H. Evaporation Rate No information available None known I. Flammability (solid, gas) No information available None known

J. Upper/lower flammability or explosive limits

**Upper flammability limit:** No information available Lower flammability limit: No information available

K. Vapor pressure None known No information available

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 No information available None known Q. Decomposition temperature None known

R. Viscosity

Kinematic viscosity No information available None known **Dynamic Viscosity** No information available None known

No information available S. Molecular weight

Other information

No information available **Explosive properties Oxidizing properties** No information available No information available Softening point **VOC** content No information available **Liquid Density** No information available

# 10. Stability and reactivity

#### A. Chemical stability and possibility of hazardous reactions

Stable under normal conditions. Stability

Possibility of hazardous

reactions

None under normal processing.

**Explosion Data** 

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

B. Conditions to avoid

None known based on information supplied.

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** Specific test data for the substance or mixture is not available.

**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** No information available.

#### B. Health hazards information

**Acute toxicity** 

#### **Numerical measures of toxicity**

**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 Respiratory system. Eyes.

**Aspiration hazard** No information available.

# 12. Ecological information

# A. Ecotoxicity

Percentage for unknown hazards0.296 % 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

A. 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

A. UN number or ID number
B. UN proper shipping name
C. Transport hazard class(es)
D. Packing group
E. Marine pollutant
F. Special precautions for user

Not regulated
Not regulated
Not applicable
Not regulated

# 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

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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**

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 No information available.

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

**ACGIH** ACGIH (American Conference of Governmental Industrial Hygienists)

**IMDG** International Maritime Dangerous Goods (IMDG)

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Time weighted average TWA 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

**Revision Number** 

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C. Other

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# **Disclaimer**

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.

**End of Safety Data Sheet**