

# **Safety Data Sheet**

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

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# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product Code T100B

Product Name RetroNectin® Recombinant Human Fibronectin Fragment

**EC No** 231-791-2

**CAS-No** 7732-18-5

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses No information available

Uses advised against No information available

# 1.3. Details of the supplier of the safety data sheet

#### Supplier

USA:

Takara Bio USA, Inc. 1290 Terra Bella Avenue Mountain View, CA 94043

Phone: 800.662.2566/888.251.6618

Web: www.takarabio.com

Europe:

Takara Bio Europe S.A.S. 34, Rue de la Croix de Fer 78100 Saint-Germain-en-Laye France

Phone: +33 1 39 04 68 80 Web: www.takarabio.com

Europe:

Takara Bio Europe AB Arvid Wallgrens Backe 20, SE-413 46 Goteborg, Sweden Phone: +46 31 758 09 00 Web: www.takarabio.com

India:

DSS Takara Bio India Pvt. Ltd. A-5 Mohan Co-operative Industrial Estate, Mathura Road, New Delhi 110044, India

Phone: +91 11 30886717

For further information, please contact:

#### 1.4. Emergency telephone number

Emergency telephone In case of emergency, call PERS (Professional Emergency Resource Services)

1-800-633-8253 (US) or 801-629-0667 (international).

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# **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

#### 2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP] Hazard statements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

EUH210 - Safety data sheet available on request

# 2.3. Other hazards

No information available.

# **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Not applicable

# 3.2 Mixtures

| Chemical name      | Weight-% | REACH registration number | EC No     | Classification<br>according to<br>Regulation (EC) No.<br>1272/2008 [CLP] | Specific concentration limit (SCL) | M-Factor | M-Factor<br>(long-term) |
|--------------------|----------|---------------------------|-----------|--|------------------------------------|----------|-------------------------|
| Sucrose<br>57-50-1 | 1 - 5    | No data available         | 200-334-9 | No data available  | -                                  | -        | -                       |

# Full text of H- and EUH-phrases: see section 16

**Acute Toxicity Estimate** 

No information available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

**Inhalation** Remove to fresh air.

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

**Skin contact**Wash skin with soap and water. In the case of skin irritation or allergic reactions see a

physician.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

4.2. Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

# **SECTION 5: Firefighting measures**

5.1. 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.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

No information available.

5.3. Advice for firefighters

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

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gear. Use personal protection equipment.

# **SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation.

6.2. Environmental precautions

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

6.3. 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**Take up mechanically, placing in appropriate containers for disposal.

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

6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

# **SECTION 7: Handling and storage**

7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation.

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

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place.

7.3. Specific end use(s)

**Identified uses** 

# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

# **Exposure Limits**

| Chemical name | European Union            | Austria        | Belgium                  |        | lgaria                | Croatia                   |
|---------------|---------------------------|----------------|--------------------------|--------|-----------------------|---------------------------|
| Sucrose       | -                         | -              | TWA 10 mg/m <sup>3</sup> | TWA 10 | 0.0 mg/m <sup>3</sup> | STEL 20 mg/m <sup>3</sup> |
| 57-50-1       |                           |                |                          |        |                       | TWA 10 mg/m <sup>3</sup>  |
| Chemical name | Cyprus                    | Czech Republic | Denmark                  | Es     | tonia                 | Finland                   |
| Sucrose       | -                         | -              | -                        | TWA 1  | 10 mg/m <sup>3</sup>  | -                         |
| 57-50-1       |                           |                |                          |        |                       |                           |
| Chemical name | France                    | Germany        | Germany MAK              | Gr     | eece                  | Hungary                   |
| Sucrose       | TWA 10 mg/m <sup>3</sup>  | -              | -                        |        | -                     | -                         |
| 57-50-1       | -                         |                |                          |        |                       |                           |
| Chemical name | Ireland                   | Italy          | Italy REL                | Lá     | atvia                 | Lithuania                 |
| Sucrose       | TWA 10 mg/m <sup>3</sup>  | -              | -                        | TWA    | 5 mg/m <sup>3</sup>   | TWA 10 mg/m <sup>3</sup>  |
| 57-50-1       | STEL 20 mg/m <sup>3</sup> |                |                          |        |                       | -                         |
| Chemical name | Portugal                  | Romania        | Slovakia                 | Slo    | venia                 | Spain                     |
| Sucrose       | TWA 10 mg/m <sup>3</sup>  | -              | -                        |        | -                     | TWA 10 mg/m <sup>3</sup>  |
| 57-50-1       | C(A4)                     |                |                          |        |                       | -                         |
| Chemical name | Sı                        | weden          | Switzerland              |        | United Kingdom        |                           |
| Sucrose       |                           | -              | -                        |        | STE                   | L 20 mg/m <sup>3</sup>    |
| 57-50-1       |                           |                |                          |        | TW.                   | A 10 mg/m <sup>3</sup>    |

# **Biological occupational exposure limits**

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

Derived No Effect Level (DNEL)
Predicted No Effect Concentration
(PNEC)

No information available. No information available.

8.2. Exposure controls

**Personal Protective Equipment** 

**Eye/face protection** No special protective equipment required.

**Skin and body protection**No special protective equipment required.

exceeded or irritation is experienced, ventilation and evacuation may be required.

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

No information available. **Environmental exposure controls** 

# **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

Liquid Physical state

Frozen liquid **Appearance** No information available Color

Odor Odorless.

**Odor Threshold** No information available

Property Values Remarks • Method

No data available None known Melting point / freezing point No data available Boiling point/boiling range (°C) None known Flammability (solid, gas) No data available None known Flammability Limit in Air None known

Upper flammability limit: No data available Lower flammability limit: No data available

Flash point No data available Open cup **Autoignition temperature** None known No data available

**Decomposition temperature** None known None known

pH (as aqueous solution) No data available No information available

Kinematic viscosity No data available None known Dynamic Viscosity No data available None known Water solubility No data available None known Solubility in other solvents No data available None known Partition coefficient No data available None known Vapor pressure No data available None known Relative density None known

**Bulk Density** No data available **Liquid Density** No data available

Vapor density No data available None known

Particle characteristics

**Particle Size** No information available **Particle Size Distribution** No information available

# 9.2. Other information

9.2.1. Information with regard to physical hazard classes Not applicable

9.2.2. Other safety characteristics

No information available

# **SECTION 10: Stability and reactivity**

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stable under normal conditions. Stability

**Explosion Data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge

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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

**Incompatible materials**None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous Decomposition Products None known based on information supplied.

# **SECTION 11: Toxicological information**

# 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

# Information on likely routes of exposure

# **Product Information**

**Inhalation** 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.

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

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

Numerical measures of toxicity

**Acute toxicity** 

**ATEmix (oral)** 2,376,000.00

# **Component Information**

| Chemical name | Oral LD50           | Dermal LD50 | Inhalation LC50 |
|---------------|---------------------|-------------|-----------------|
| Sucrose       | = 29700 mg/kg (Rat) | -           | -               |

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** No information available.

Serious eye damage/eye irritation No information available.

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

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**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure**No information available.

**Aspiration hazard** No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

11.2.2. Other information

Other adverse effects No information available.

# **SECTION 12: Ecological information**

12.1. Toxicity

**Ecotoxicity** 

**Unknown aquatic toxicity**Contains 0 % of components with unknown hazards to the aquatic environment.

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

12.7. Other adverse effects

No information available.

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# **SECTION 13: Disposal considerations**

13.1. Waste treatment methods

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.

# **SECTION 14: Transport information**

IATA

14.1 UN number or ID number Not regulated

**14.2 UN proper shipping name** No information available

14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated Not regulated Not applicable

14.6 Special precautions for user

Special Provisions None

**IMDG** 

14.1 UN number or ID number Not regulated

**14.2 UN proper shipping name** No information available

14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated Not regulated Not applicable

14.6 Special precautions for user

Special Provisions

14.7 Maritime transport in bulk No information available

None

according to IMO instruments

RID

**14.1 UN number or ID number** Not regulated

**14.2 UN proper shipping name** No information available

14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated Not regulated Not applicable

14.6 Special precautions for user

Special Provisions None

ADR

14.1 UN number or ID number Not regulated

**14.2 UN proper shipping name** No information available

14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated
 Not applicable

14.6 Special precautions for user

Special Provisions None

# **SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**European Union** 

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Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

### Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

#### **Persistent Organic Pollutants**

Not applicable

# Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

#### **International Inventories**

**TSCA DSL/NDSL EINECS/ELINCS ENCS IECSC KECL PICCS AICS** 

# 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

# 15.2. Chemical safety assessment

**Chemical Safety Assessment** No information available

# **SECTION 16: Other information**

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

SVHC: Substances of Very High Concern for Authorization:

#### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA Time weighted average STEL Short term exposure limit

Maximum limit value Skin designation Ceiling Hazard Designation Sensitizers +

| Classification procedure  |                    |
|---|--------------------|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used        |
| Acute oral toxicity   | Calculation method |
| Acute dermal toxicity   | Calculation method |
| Acute inhalation toxicity - gas                                 | Calculation method |

| Acute inhalation toxicity - vapor     | Calculation method |
|---------------------------------------|--------------------|
| Acute inhalation toxicity - dust/mist | Calculation method |
| Skin corrosion/irritation             | Calculation method |
| Serious eye damage/eye irritation     | Calculation method |
| Respiratory sensitization             | Calculation method |
| Skin sensitization                    | Calculation method |
| Mutagenicity                          | Calculation method |
| Carcinogenicity                       | Calculation method |
| Reproductive toxicity                 | Calculation method |
| STOT - single exposure                | Calculation method |
| STOT - repeated exposure              | Calculation method |
| Acute aquatic toxicity                | Calculation method |
| Chronic aquatic toxicity              | Calculation method |
| Aspiration hazard                     | Calculation method |
| Ozone                                 | Calculation method |

#### 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

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#### This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

# **Disclaimer**

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**End of Safety Data Sheet**