

# 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

Revision Date 2023-12-25

## Revision Number 8

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

1.1. Product identifier

Product Code 632568

Product Name pRetroQ-mCherry-N1 Vector

 Pure substance/mixture
 Mixture

 1.2. 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

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

Supplier USA: Takara Bio USA, Inc. 2560 Orchard Parkway San Jose, CA 95131, USA 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 Göteborg, 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: +91.1800.212.4922 (Toll free) Web: www.takarabio.com

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). |
|---------------------|---|
| Italy               | Marco Marano  |
|                     |   |

| CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA<br>Roma, Piazza Sant'Onofrio,4 00165<br>0668593726 |
|---|
|   |

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] 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]

#### 2.3. Other hazards

No information available.

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

#### 3.1 Substances

Not applicable

# 3.2 Mixtures

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

## 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    | Rinse mouth.   |

# 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 No information available. chemical

5.3. Advice for firefighters

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

# **SECTION 6:** Accidental release measures

| 6.1. Personal precautions, protective equipment and emergency procedures |  |  |
|--|--|--|
| Personal precautions   | Ensure adequate ventilation.   |  |
| For emergency responders   | Use personal protection recommended in Section 8.                                    |  |
| 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.

**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)

| SECTION 8: Exposure controls/personal protection  |  |  |
|---|--|--|
| 8.1. Control parameters   |  |  |
| Exposure Limits   | This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.              |  |
| <b>Biological occupational exposure limits</b><br>This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific<br>regulatory bodies. |  |  |
| Derived No Effect Level (DNEL)<br>Predicted No Effect Concentration<br>(PNEC)   | No information available.<br>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.  |  |
| 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. |  |
| General hygiene considerations  | Handle in accordance with good industrial hygiene and safety practice.   |  |
| Environmental exposure controls   | No information available.  |  |

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

# 9.1. Information on basic physical and chemical properties

| Physical state                   | Liquid                   |
|----------------------------------|--------------------------|
| Appearance                       | Clear, colorless         |
| Color                            | Clear                    |
| Odor                             | Odorless.                |
| Odor Threshold                   | No information available |
|                                  |                          |
| Property                         | Values                   |
| Melting point / freezing point   | No data available        |
|                                  |                          |
| Boiling point/boiling range (°C) | No data available        |

Remarks • Method None known None known

| Flammability (solid, gas)<br>Flammability Limit in Air | No data available        | None known<br>None known |
|--|--------------------------|--------------------------|
| Upper flammability limit:                              | No data available        |                          |
| Lower flammability limit:                              | No data available        |                          |
| Flash point  | No data available        | Open cup                 |
| Autoignition temperature                               | No data available        | None known               |
| Decomposition temperature                              |                          | None known               |
| рН   | No data available        | 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                                       | No data available        | 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  |   |  |
| Stability   | Stable under normal conditions.           |  |
| Explosion Data<br>Sensitivity to mechanical impact<br>Sensitivity to static discharge | None.<br>None.                            |  |
| 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 proc  | ducts                                     |  |

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, o  | chemical and toxicological characteristics                        |  |
| Symptoms   | No information available.   |  |
| Numerical measures of toxicity   |   |  |
| Acute toxicity   |   |  |
| The following values are calculated based on chapter 3.1 of the GHS document |   |  |
| ATEmix (dermal)  | 99,999.00 mg/kg   |  |
|  |   |  |
|  |   |  |
| Delayed and immediate effects as w   | vell as chronic effects from short and long-term exposure         |  |
| Skin corrosion/irritation  | No information available.   |  |
| Serious eye damage/eye irritation  | No information available.   |  |
| Senous eye damage/eye irritation   |   |  |
| Respiratory or skin sensitization  | No information available.   |  |
| Germ cell mutagenicity   | No information available.   |  |
| Cerni cen matagemeny   |   |  |
| 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 prope                              | rties   |
| Endocrine disrupting properties                                 | No information available.   |
| 11.2.2. Other information                                       |   |
| Other adverse effects   | No information available.   |
|   | SECTION 12: Ecological information  |
| <u>12.1. Toxicity</u>   |   |
| Ecotoxicity   | The environmental impact of this product has not been fully investigated.                                       |
| Unknown aquatic toxicity  | Contains 0.796 % 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   | No information available.   |
| 12.4. Mobility in soil  |   |
| Mobility in soil  | No information available.   |
| 12.5. Results of PBT and vPvB asse                              | ssment  |
| PBT and vPvB assessment   | No information available.   |
| 12.6. Endocrine disrupting propert                              | ies_  |
| Endocrine disrupting properties                                 | No information available.   |
| <b>12.7. Other adverse effects</b><br>No information available. |   |
|   | SECTION 13: Disposal considerations   |
| 13.1. Waste treatment methods                                   |   |
| Waste from residues/unused<br>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

| <ul> <li>14.1 UN number or ID number</li> <li>14.2 UN proper shipping name</li> <li>14.3 Transport hazard class(es)</li> <li>14.4 Packing group</li> <li>14.5 Environmental hazards</li> <li>14.6 Special precautions for user<br/>Special Provisions</li> </ul> | Not regulated<br>No information available<br>Not regulated<br>Not applicable<br>None                             |
|--|--|
| IMDG14.1UN number or ID number14.2UN proper shipping name14.3Transport hazard class(es)14.4Packing group14.5Environmental hazards14.6Special precautions for user<br>Special Provisions14.7Maritime transport in bulk<br>according to IMO instruments            | Not regulated<br>No information available<br>Not regulated<br>Not applicable<br>None<br>No information available |
| RID14.1UN number or ID number14.2UN proper shipping name14.3Transport hazard class(es)14.4Packing group14.5Environmental hazards14.6Special precautions for user<br>Special Provisions   | Not regulated<br>No information available<br>Not regulated<br>Not regulated<br>Not applicable<br>None            |
| ADR<br>14.1 UN number or ID number<br>14.2 UN proper shipping name<br>14.3 Transport hazard class(es)<br>14.4 Packing group<br>14.5 Environmental hazards<br>14.6 Special precautions for user<br>Special Provisions   | Not regulated<br>No information available<br>Not regulated<br>Not regulated<br>Not applicable<br>None            |

# **SECTION 15: Regulatory information**

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

# **European Union**

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

## Legend

SVHC: Substances of Very High Concern for Authorization:

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

| TWĀ     | Time weighted average | STEL | Short term exposure limit |
|---------|-----------------------|------|---------------------------|
| Ceiling | Maximum limit value   | *    | Skin designation          |

| 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) U.S. 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

# Revision Date 2023-12-25

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

#### 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