

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 2021-02-08

Revision Number 5

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

| 1.1. Product identifier | |
|--|---|
| Product Code | ST1212 |
| Product Name | TCRb Mouse Primer 2 Reverse HT Index 1 |
| EC No | 231-791-2 |
| CAS-No | 7732-18-5 |
| 1.2. Relevant identified uses of the s | substance or mixture and uses advised against |
| Identified uses | No information available |
| Uses advised against | No information available |
| 4.0 Details of the sumplice of the set | |

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).

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]

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

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 |
|---|--|
| | SECTION 5. Filenghung 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 | ne 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 gear. Use personal protection equipment. |
| S | SECTION 6: Accidental release measures |
| 6.1. Personal precautions, protectiv | ve 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 conta | ainment 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. |

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
 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.

| 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. |
| 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_ | Remarks • Method |
| Melting point / freezing point | No data available | None known |
| Boiling point/boiling range (°C) | No data available | 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 | No data available | None known |
| Decomposition temperature | | None known |
| рН | | 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 |
| | | |

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| 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 phy Not applicable | ysical hazard classes | |
| 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 Sensitivity to mechanical impac Sensitivity to static discharge | t None. None. | |
| 10.3. Possibility of hazardous react | ions | |
| Possibility of hazardous reactions | None under normal processing. | |
| 10.4. Conditions to avoid | | |
| Conditions to avoid | None known based on information su | oplied. |
| 10.5. Incompatible materials | | |
| Incompatible materials | None known based on information su | oplied. |
| 10.6. Hazardous decomposition products | | |
| Hazardous Decomposition Product | s None known based on information su | pplied. |
| | 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 | |

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. Carcinogenicity No information available. **Reproductive toxicity** No information available. STOT - single exposure No information available. STOT - repeated exposure No information available. No information available. Aspiration hazard 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 The environmental impact of this product has not been fully investigated. Ecotoxicity

Unknown aquatic toxicity Contains 0.83808 % 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. |
| | |
| <u>12.4. Mobility in soil</u> | |
| Mobility in soil | No information available. |
| 12.5. Results of PBT and vPvB asse | essment |
| 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.

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

<u>IATA</u>

- 14.1 UN number or ID number 14.2 UN proper shipping name
- 14.3 Transport hazard class(es)
- 14.4 Packing group
- 14.5 Environmental hazards
- 14.6 Special precautions for user Special Provisions

IMDG

- 14.1 UN number or ID number
- 14.2 UN proper shipping name
- 14.3 Transport hazard class(es)
- 14.4 Packing group
- 14.5 Environmental hazards14.6 Special precautions for user Special Provisions
- 14.7 Maritime transport in bulk according to IMO instruments

<u>RID</u>

14.1 UN number or ID number **14.2** UN proper shipping name Not regulated No information available Not regulated Not regulated Not applicable

Not regulated

Not regulated

Not regulated

Not applicable

None

No information available

None No information available

Not regulated No information available

| 14.3 Transport hazard class(es) | Not regulated |
|-----------------------------------|--------------------------|
| 14.4 Packing group | Not regulated |
| 14.5 Environmental hazards | Not applicable |
| 14.6 Special precautions for user | |
| Special Provisions | None |
| ADR | |
| 14.1 UN number or ID number | Not regulated |
| | 5 |
| 14.2 UN proper shipping name | No information available |
| 14.3 Transport hazard class(es) | Not regulated |
| 14.4 Packing group | Not regulated |
| 14.5 Environmental hazards | 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

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

| TWĂ | 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) 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

2021-02-08

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

Disclaimer

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End of Safety Data Sheet