This safety data sheet complies with the requirements of:

Issuing Date 2020-04-16  Revision Date 2020-04-16  Version 6

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier
   - **Product Code**: ST0795
   - **Product Name**: Control 3’-RACE TFR Primer

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.
       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:

   Technical Support: +33.(1).39.04.68.80

1.4. Emergency telephone number

   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

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

Signal Word
None

2.3. Other hazards

No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances / 3.2 Mixtures

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

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

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice
In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Inhalation
Move to fresh air.

Skin contact
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

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

Ingestion
Never give anything by mouth to an unconscious person, If symptoms persist, call a physician, Not an expected route of exposure

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

Main Symptoms
No information available.

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

Notes to physician
Treat symptomatically.
Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media No information available

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective 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

Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas

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.

6.4. 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 Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions Keep container tightly closed in a dry and well-ventilated place.

Incompatible products None known based on information supplied.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Material Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
8.1. Control parameters

Exposure limits Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering Measures Apply technical measures to comply with the occupational exposure limits. For rescue and maintenance work in storage tanks use self-contained breathing apparatus.

Personal Protective Equipment
Eye/Face Protection If splashes are likely to occur, wear: Safety glasses with side-shields
Hand Protection Protective gloves.
Skin and body protection Wear suitable protective equipment, Boots
Respiratory protection None under normal use conditions.

Environmental Exposure Controls The product should not be allowed to enter drains, water courses or the soil.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Odor</th>
<th>Odor Threshold</th>
<th>Remarks + Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear, colorless</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Clear</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>pH VALUE</td>
<td>No information available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting point / freezing point</td>
<td>No information available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boiling point / boiling range (°C)</td>
<td>No information available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>No information available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No information available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
<td>No information available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit:</td>
<td>No information available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lower flammability limit:</td>
<td>No information available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No information available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor density</td>
<td>No information available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Relative density</td>
<td>No information available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Not applicable</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No information available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No information available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No information available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No information available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No information available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No information available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>No information available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Softening point</td>
<td>No information available</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

Explosion Data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

None known based on information supplied.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

None under normal use conditions.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

Product Information

Product does not present an acute toxicity hazard based on known or supplied information

<table>
<thead>
<tr>
<th>Inhalation</th>
<th>There is no data available for this product.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye contact</td>
<td>There is no data available for this product.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>There is no data available for this product.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>There is no data available for this product.</td>
</tr>
</tbody>
</table>

Unknown acute toxicity

0.86314 % of the mixture consists of ingredient(s) of unknown toxicity.
0.86314 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
0.86314 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
0.86314 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
0.86314 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).
0.86314 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Skin corrosion/irritation

No information available.
Serious Eye Damage/Eye Irritation  No information available.
Sensitization  No information available.
mutagenic effects  No information available.
Carcinogenic effects  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.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity
1 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

12.2. Persistence and degradability
No information available.

12.3. Bioaccumulative potential
No information available.

12.4. Mobility in soil
Mobility in soil
No information available.
Mobility
No information available.

12.5. Results of PBT and vPvB assessment
No information available.

12.6. 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 the European Directives on waste and hazardous waste.
Contaminated packaging Dispose of in accordance with local regulations.
Section 14: TRANSPORT INFORMATION

IMDG/IMO
14.1 UN/ID no  Not regulated
14.2 Proper Shipping Name  Not regulated
14.3 Hazard Class  Not regulated
14.4 Packing group  Not regulated
14.5 Environmental Hazard
   Marine pollutant  Not regulated
14.6 Special Provisions  None
14.7 Transport in bulk according to
   Annex II of MARPOL 73/78 and the
   IBC Code  No information available

RID
14.1 UN/ID no  Not regulated
14.2 Proper Shipping Name  Not regulated
14.3 Hazard Class  Not regulated
14.4 Packing group  Not regulated
14.5 Environmental Hazard  Not Applicable
14.6 Special Provisions  None

ADR/RID
14.1 UN/ID no  Not regulated
14.2 Proper Shipping Name  Not regulated
14.3 Hazard Class  Not regulated
14.4 Packing group  Not regulated
14.5 Environmental Hazard  Not Applicable
14.6 Special Provisions  None

ICAO/IATA
14.1 UN/ID no  Not regulated
14.2 Proper Shipping Name  Not regulated
14.3 Hazard Class  Not regulated
14.4 Packing group  Not regulated
14.5 Environmental Hazard  Not Applicable
14.6 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

For research use only

- 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

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

<table>
<thead>
<tr>
<th>Legend</th>
<th>Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>SVHC:</td>
<td>Substances of Very High Concern for Authorization:</td>
</tr>
</tbody>
</table>

#### Section 16: OTHER INFORMATION

| Key or legend to abbreviations and acronyms used in the safety data sheet |
|-----------------------------|-----------------------------|
| TWA | Time weighted average |
| Ceiling | Maximum limit value |
| STEL | Short term exposure limit |
| * | Skin designation |

**Issuing Date**: 2020-04-16

**Revision Date**: 2020-04-16

**Reason for revision**: Not Applicable.

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

**Disclaimer**

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

**Notice to Purchaser**:

Our products are to be used for research purposes only. They may not be used for any other purpose, including, but not limited to, use in drugs, in vitro diagnostic purposes, therapeutics, or in humans. Our products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without our prior written approval. Your use of this product is also subject to compliance with the licensing requirements described on the product's web page. It is your responsibility to review, understand and adhere to any restrictions imposed by these statements. All other marks are the property of their respective owners. Certain trademarks may not be registered in all jurisdictions.

End of Safety Data Sheet