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Version 3

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name pEF1alpha-DsRed-Monomer-C1 Vector

Other means of identification

Product Code 631977
Registration number No information available

Recommended use of the chemical and restrictions on use

Identified uses For research use only. Not for use in diagnostic procedures.
Uses advised against No information available.

Details of the supplier of the safety data sheet

Supplier

Japan:
Takara Bio Inc.
Nojihigashi 7-4-38
Kusatsu, Shiga 525-0058, Japan
Phone: +81.77.565.6972
Web: www.takara-bio.com

China:
Takara Biomedical Technology (Beijing) Co., Ltd.
Life Science Park, 22 KeXueYuan Road, Changping District,
Beijing 102206, China
Phone: +86 10 8072 0980
Web: www.takara.com.cn

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

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

Classification of the substance or mixture

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

Signal Word
None

Hazard Statements**Precautionary Statements - Prevention**

Not applicable.

Precautionary Statements - Response

• Not applicable

Precautionary Statements - Storage

Not applicable.

Precautionary Statements - Disposal

Not applicable

Other information

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Hazards not otherwise classified (HNOC) Not applicable**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS****Substance / Mixture**

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Section 4: 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 plenty of water for at least 15 minutes.
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.
Notes to physician	Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Flammable Properties	May cause fire.
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media	No information available.
Specific hazards arising from the chemical	Keep product and empty container away from heat and sources of ignition.
Special Extinguishing Media	Cool drums with water spray.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions	For personal protection see section 8.
Environmental precautions	Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Soak up with inert absorbent material.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: HANDLING AND STORAGE

Handling

Advice on safe handling Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Storage

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

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Other information These recommendations apply to the product as supplied.

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Respiratory protection None under normal use conditions.

Hand Protection Latex gloves.

Eye/Face Protection Tightly fitting safety goggles.

Skin and body protection Wear suitable protective equipment. Boots.

Hygiene measures When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Odorless
Appearance	Clear, colorless	Odor Threshold	No information available
Color	Clear		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
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pH VALUE No information available

Melting point / freezing point No information available /

No information available

Boiling point/boiling range (°C)	No information available
Flash point	No information available
Evaporation Rate	No information available
Flammability (solid, gas)	No information available
Flammability Limit in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	No information available
Vapor density	No information available
Relative density	No information available
Water Solubility	Not applicable
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	
Decomposition temperature	No information available
Viscosity, kinematic	No information available
Viscosity, dynamic	
Explosive properties	No information available
Oxidizing Properties	No information available

Other information

VOC Content (%)	No information available
Bulk Density	No information available

Section 10: STABILITY AND REACTIVITY

Reactivity	No dangerous reaction known under conditions of normal use.
Stability	Stable under normal conditions.
Explosion Data	
Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.
Hazardous Reactions	None under normal processing.
Conditions to Avoid	None known based on information supplied.
Hazardous Decomposition Products	None under normal use conditions.

Section 11: TOXICOLOGICAL INFORMATION
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Acute toxicity**Numerical measures of toxicity - Product Information****Unknown acute toxicity**

0.793 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
0.793 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
0.793 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
0.793 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
0.793 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

ATEmix (oral)	No information available
ATEmix (dermal)	No information available
ATEmix (inhalation-gas)	No information available
ATEmix (inhalation-dust/mist)	No information available
ATEmix (inhalation-vapor)	No information available

Numerical measures of toxicity - Component InformationDelayed 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.
Sensitization	No information available.
mutagenic effects	No information available.
Reproductive toxicity	No information available.
STOT - Single Exposure	No information available.
STOT - Repeated Exposure	No information available.
Neurological effects	No information available.
Target Organ Effects	No information available.
Aspiration Hazard	No information available.

Section 12: ECOLOGICAL INFORMATIONEcotoxicity

1 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Persistence and degradability	No information available.
Bioaccumulation	No information available.
Mobility	No information available.

Section 13: DISPOSAL CONSIDERATIONS

Waste from Residues / Unused Products	Dispose of as hazardous waste in compliance with local and national regulations.
Contaminated packaging	Dispose of in accordance with local regulations.

Section 14: TRANSPORT INFORMATION

<u>IMDG/IMO</u>	Not regulated
<u>ICAO</u>	Not regulated
<u>ADR/RID</u>	Not regulated
<u>ICAO/IATA</u>	Not regulated

Japan**Section 15: REGULATORY INFORMATION**

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

Section 16: OTHER INFORMATION

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Revision Note	No information available.

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

- No information available

Disclaimer

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End of Safety Data Sheet