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Version 3

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

### Product Identifier

**Product Name** pLVX-EF1alpha-DsRed-Monomer-N1 Vector

### Other means of identification

**Product Code** 631990  
**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**

<b>General advice</b>	In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
<b>Inhalation</b>	Move to fresh air.
<b>Skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Not an expected route of exposure.
<b>Notes to physician</b>	Treat symptomatically.

**Section 5: FIRE FIGHTING MEASURES**

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

## Section 6: ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	For personal protection see section 8.
<b>Environmental precautions</b>	Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	Soak up with inert absorbent material.
<b>Prevention of secondary hazards</b>	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

<b>Physical State</b>	Liquid	<b>Odor</b>	Odorless
<b>Appearance</b>	Clear, colorless	<b>Odor Threshold</b>	No information available
<b>Color</b>	Clear		

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

**Melting point / freezing point**      No information available /

No information available

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

**Other information**

<b>VOC Content (%)</b>	No information available
<b>Bulk Density</b>	No information available

## Section 10: STABILITY AND REACTIVITY

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

## Section 11: TOXICOLOGICAL INFORMATION

**Acute toxicity****Numerical measures of toxicity - Product Information****Unknown acute toxicity**

0.79164 % of the mixture consists of ingredient(s) of unknown acute oral toxicity  
 0.79164 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
 0.79164 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
 0.79164 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)  
 0.79164 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

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

**Numerical measures of toxicity - Component Information****Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Skin corrosion/irritation</b>	No information available.
<b>Serious Eye Damage/Eye Irritation</b>	No information available.
<b>Sensitization</b>	No information available.
<b>mutagenic effects</b>	No information available.
<b>Reproductive toxicity</b>	No information available.
<b>STOT - Single Exposure</b>	No information available.
<b>STOT - Repeated Exposure</b>	No information available.
<b>Neurological effects</b>	No information available.
<b>Target Organ Effects</b>	No information available.
<b>Aspiration Hazard</b>	No information available.

**Section 12: ECOLOGICAL INFORMATION****Ecotoxicity**

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

<b>Persistence and degradability</b>	No information available.
<b>Bioaccumulation</b>	No information available.
<b>Mobility</b>	No information available.

**Section 13: DISPOSAL CONSIDERATIONS**

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

**Section 14: TRANSPORT INFORMATION**

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

<b>Issuing Date</b>	2020-04-07
<b>Revision Date</b>	2020-04-07
<b>Revision Note</b>	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**