

Safety Data Sheet This safety data sheet complies with the requirements of: JIS Z 7253:2019

Revision Date 2021-02-04 **Revision Number** 2

1. Identification

Product Name	pDsRed2-1 Vector	
Product Code	632405	
Registration number	No information available	
Details of the supplier of the safe	<u>ty data sheet</u>	
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:		
Fakara Biomedical Technology (Be	ijing) Co., Ltd.	
ife Science Park, 22 KeXueYuan I	Road, Changping District,	
Beijing 102206, China		
Phone: +86 10 8072 0980		
Web: www.takarabiomed.com.cn		
Emergency telephone number		RS (Professional Emergency Resource Services)
	1-800-633-8253 (US) or 801-6	29-0667 (International).
Recommended use of the chemic	al and restrictions on use	
dentified uses	For research use only. Not for	use in diagnostic procedures
Restrictions on use No information		
	2. Hazard(s) ide	ntification
GHS Classification		
Not classified		
Acute toxicity - Oral		Classification not possible
Acute toxicity - Dermal		Classification not possible
Acute toxicity - Inhalation (Cases)		Classification not applicable

Acute toxicity - Orai	Classification not possible
Acute toxicity - Dermal	Classification not possible
Acute toxicity - Inhalation (Gases)	Classification not applicable
Acute toxicity - Inhalation (Vapors)	Classification not possible
Acute toxicity - Inhalation (Dusts/Mists)	Classification not possible
Skin corrosion/irritation	Classification not possible
Serious eye damage/eye irritation	Classification not possible
Respiratory sensitization	Classification not possible
Skin sensitization	Classification not possible
Germ cell mutagenicity	Classification not possible
Carcinogenicity	Classification not possible
Reproductive toxicity	Classification not possible
Effects on or via lactation	No effects on or via lactation
Specific target organ toxicity (single exposure)	Classification not possible
Specific target organ toxicity (repeated exposure)	Classification not possible
Aspiration hazard	Classification not possible
Acute aquatic toxicity	Classification not possible
Chronic aquatic toxicity	Classification not possible
Ozone	Classification not possible

GHS label elements

Hazard Statements Not classified

Prevention

Not applicable

Response

 Not applicable Storage • Not applicable Disposal Not applicable

Other hazards

No information available.

3. Composition/information on ingredients

Pure substance/mixture

Chemical name	CAS No	Weight-%	ENCS Inventory	ENCS Number	ISHL Inventory	ISHL No
Plasmid,	CAS-PLASMID	10 - 30	No information		No information	
pDsRed2-1(0.5ug/ul)			available		available	

Pollutant Release and Transfer Registry (PRTR)

Not applicable

Industrial Safety and Health Law ISHL Notifiable Substances

Not applicable

Harmful Substances Whose Names Are to be Indicated on the Label Not applicable

Mixture

Poisonous and Deleterious Substances Control Law

Not applicable

4. First-aid measures

In case of inhalation	Remove to fresh air.
In case of skin contact	Wash skin with soap and water.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
In case of ingestion	Clean mouth with water and drink afterwards plenty of water.
Most important symptoms/effects, acute and delayed	No information available.
Note to physicians	Treat symptomatically.

5. Fire-fighting measures			
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.		
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.		
Specific hazards arising from the chemical	No information available.		
Special Extinguishing Media Large Fire	Cool drums with water spray. CAUTION: Use of water spray when fighting fire may be inefficient.		
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.		
	6. Accidental release measures		
Personal precautions, protective equipment and emergency procedures	6. Accidental release measures Ensure adequate ventilation.		
equipment and emergency			
equipment and emergency procedures	Ensure adequate ventilation.		
equipment and emergency procedures For emergency responders	Ensure adequate ventilation. Use personal protection recommended in Section 8.		
equipment and emergency procedures For emergency responders Environmental precautions	Ensure adequate ventilation. Use personal protection recommended in Section 8. See Section 12 for additional Ecological Information.		

7. Handling and storage

<u>Handling</u> Advice on safe handling Storage	Handle in accordance with good industrial hygiene and safety practice.
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.

	8. Exposure controls/personal protection
Engineering controls	Showers Eyewash stations
Exposure guidelines	Ventilation systems. 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
Environmental exposure controls	No information available.
Personal Protective Equipment 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.
Eye/face protection Skin and body protection	No special protective equipment required. No special protective equipment required.

Physical and chemical properties

Remarks • Method

No information available

No information available No information available

No information available

No information available

No information available

No information available

No information available

No information available No information available

No information available

Not applicable

Not applicable

ASTM D 56

Information on basic physical and chemical properties

Appearance	Clear, colorless
Physical state	Liquid
Color	Clear
Odor	None
Odor Threshold	No information available

Property Values Melting point / freezing point Boiling point/boiling range (°C) Flammability (solid, gas) Upper/lower flammability or explosive limits Upper flammability limit: Lower flammability limit: Flash point **Evaporation Rate** Autoignition temperature **Decomposition temperature** pН Viscosity **Kinematic viscosity** Dynamic Viscosity Water solubility Solubility in other solvents Partition Coefficient (n-octanol/water) Vapor pressure Vapor density **Relative density** Particle characteristics **Particle Size Particle Size Distribution**

Other information

Explosive properties Oxidizing properties

No information available No information available

10. Stability and reactivity

Reactivity No information available. Stable under normal conditions. **Chemical stability** Possibility of hazardous reactions None under normal processing. Incompatible materials None known based on information supplied. Hazardous Decomposition Products None known based on information supplied. **Explosion Data** Sensitivity to static discharge None Sensitivity to mechanical impact None.

11. Toxicological information

Acute toxicity

Numerical measures of toxicity - Product Information No information available

100 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

100 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

- 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas) 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Symptoms	No information available.
Product Information	
Ingestion	Specific test data for the substance or mixture is not available.
Inhalation	Specific test data for the substance or mixture is not available.
Skin contact	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 corrosion/irritation	Based on available data, the classification criteria are not met. Classification not possible.
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met. Classification not possible.
Respiratory or skin sensitization	Classification not possible.
Germ cell mutagenicity	Based on available data, the classification criteria are not met. Classification not possible.
Carcinogenicity	Based on available data, the classification criteria are not met. Classification not possible.
Reproductive toxicity	Based on available data, the classification criteria are not met. Classification not possible.
STOT - single exposure	Based on available data, the classification criteria are not met. Classification not possible.
STOT - repeated exposure	Based on available data, the classification criteria are not met. Classification not possible.
Aspiration hazard	Based on available data, the classification criteria are not met. Classification not possible.

12. Ecological information				
Ecotoxicity	Classification not possible.			
Percentage for unknown hazards	78 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.			
Persistence and degradability	No information available.			
Bioaccumulation	No information available.			

Hazardous to the ozone layer Other adverse effects	Classification not possible. Based on available data, the classification criteria are not met. No information available.			
13. Disposal considerations				
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.			
14. Transport information				
IMDG	Not regulated			

IMDG	Not regulated
ADR	Not regulated
IATA	Not regulated
<u>Japan</u>	Not regulated

15. Regulatory information

National regulations

Pollutant Release and Transfer Registry (PRTR) Not applicable

Industrial Safety and Health Law Not applicable ISHL Notifiable Substances Not applicable

Poisonous and Deleterious Substances Control Law Not applicable

Fire Service Law: Not applicable

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc. (CSCL) Not applicable

Act on Prevention of Marine Pollution and Maritime Disaster Not applicable

International Regulations

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories IECSC

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

16. Other information

	2021-(No info abbreviations and acrony : EXPOSURE CONTROLS, Time weighted average Skin designation	mation available.		Maximum limit value Sensitizers
Agency for Toxic S U.S. Environmenta European Chemic European Food Sa EPA (Environmenta Acute Exposure G U.S. Environmenta Food Research Jo Hazardous Substa International Unifo Japan GHS Class Australia National NIOSH (National I National Library of National Library of National Toxicolog New Zealand's Ch Organization for E	erences and sources for of Substances and Disease Re al Protection Agency Chem' als Agency afety Authority (EFSA) tal Protection Agency) uideline Level(s) (AEGL(s)) al Protection Agency Federa al Protection Agency High P ournal ance Database rm Chemical Information Da ification Industrial Chemicals Notific nstitute for Occupational Sa Medicine's ChemID Plus (I Medicine's PubMed databa gy Program (NTP) memical Classification and In conomic Co-operation and conomic Co-operation and	gistry (ATSDR) /iew Database Il Insecticide, Fungi roduction Volume C atabase (IUCLID) ation and Assessme fety and Health) ILM CIP) Ise (NLM PUBMED formation Database Development Enviro Development High F	le the SDS cide, and Rodentic Chemicals ent Scheme (NICN) e (CCID) onment, Health, and Production Volume	ide Act AS) d Safety Publications Chemicals Program

Disclaimer

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End of Safety Data Sheet