# **園TaKaRa**

# **Safety Data Sheet**

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

> Revision Date 2021-02-08 Revision Number 4

# 1. Identification

Product Name Library Amplification Enzyme

Product Code ST1925

Registration number 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.takarabiomed.com.cn

Emergency telephone number In case of eme

In case of emergency, call PERS (Professional Emergency Resource Services)

1-800-633-8253 (US) or 801-629-0667 (international).

# Recommended use of the chemical and restrictions on use

**Identified uses** For research use only. Not for use in diagnostic procedures

Restrictions on use No information available

# 2. Hazard(s) identification

# **GHS Classification**

<u>One diagonication</u>	
Acute toxicity - Oral	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)	Category 4
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



Signal word

Warning

# Hazard Statements Harmful if inhaled

- Avoid breathing dust/fume/gas/mist/vapors/spray
- Use only outdoors or in a well-ventilated area

# Response

Prevention

- Not applicable
- IF INHALED: Remove person to fresh air and keep comfortable for breathing
- Call a POISON CENTER or doctor if you feel unwell

# Storage

Not applicable

# **Disposal**

· Not applicable

# Other hazards

No information available.

# 3. Composition/information on ingredients

Pure substance/mixture Mixture

Chemical name	CAS No	Weight-%	ENCS Inventory	ENCS Number	ISHL Inventory	ISHL No
Tween 20	9005-64-5	0.1 - 1	Existing	(8)-55	Existing	(8)-55
Poly(oxyethylene)	9016-45-9	0.1 - 1	Existing	(7)-172	Existing	(7)-172
nonylphenyl ether (NP-40)					_	

# 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

# **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

Ensure adequate ventilation.

For emergency responders Use personal protection recommended in Section 8.

**Environmental precautions** See Section 12 for additional Ecological Information.

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

Clean contaminated objects and areas thoroughly observing environmental regulations. Prevention of secondary hazards

7. Handling and storage

Handling

Advice on safe handling

Storage

**Storage Conditions** 

Handle in accordance with good industrial hygiene and safety practice.

Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls/personal protection

**Engineering controls** Showers

> Eyewash stations Ventilation systems.

**Exposure guidelines** 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** Personal Protective Equipment

Respiratory protection

No information available.

No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

No special protective equipment required. Eye/face protection Skin and body protection No special protective equipment required.

# Physical and chemical properties

# Information on basic physical and chemical properties

**Appearance** Clear, colorless

Liquid Physical state

Color No information available

Odor Unpleasant

**Odor Threshold** No information available

Remarks • Method Property Values

Melting point / freezing point No information available Boiling point/boiling range (°C) No information available Flammability (solid, gas) No information available

Upper/lower flammability or explosive limits

Upper flammability limit: Lower flammability limit:

Flash point ASTM D 56

**Evaporation Rate** No information available

**Autoignition temperature** 392.8 °C / 739 °F No information available **Decomposition temperature** No information available pН No information available

**Viscosity** 

Kinematic viscosity No information available No information available **Dynamic Viscosity** Water solubility No information available Solubility in other solvents No information available No information available

**Partition Coefficient** (n-octanol/water)

Vapor pressure

No information available Vapor density No information available Relative density No information available

**Particle characteristics** 

Not applicable **Particle Size** Not applicable **Particle Size Distribution** 

Other information

**Explosive properties** No information available No information available **Oxidizing properties** 

# 10. Stability and reactivity

No information available. Reactivity 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** 

Canalitivity to static discharge. None

Sensitivity to static discharge None. Sensitivity to mechanical impact None.

# 11. Toxicological information

### Acute toxicity

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

 ATEmix (oral)
 19,984.10 mg/kg

 ATEmix (dermal)
 15,876.29 mg/kg

 ATEmix (inhalation-dust/mist)
 4.3659 mg/l

2.51046 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

2.51046 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

65.56046 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas) 65.56046 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

2.51046 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Tween 20	= 37000 mg/kg (Rat)	-	-
Poly(oxyethylene) nonylphenyl	= 2590 mg/kg (Rat)	= 1780 μL/kg (Rabbit)	-
ether (NP-40)			

Abbreviations and acronyms

Rat: Rat Rabbit: Rabbit

**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.

Target organ effects Kidney. Respiratory system. Eyes. Skin.

**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

1.51046 % of the mixture consists of component(s) of unknown hazards to the aquatic

environment.

Persistence and degradability No information available.

**Bioaccumulation** There is no data for this product.

Hazardous to the ozone layer
Other adverse effects
Endocrine Disruptor Informatic

Classification not possible. Based on available data, the classification criteria are not met.

No information available.

	Endocrine disruptor information			
	Chemical name	EU - REACH (1907/2006) - EU - REACH (1907/200		Endocrine disrupting potential
		Article 59(1) - Candidate List	Endocrine Disruptor	
		of Substances of Very High	Assessment List of	
		Concern (SVHC) for	Substances	
		Authorisation		
	Poly(oxyethylene) nonylphenyl ether	Endocrine disrupting	-	-
	(NP-40)	properties		

# 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

IMDGNot regulatedADRNot regulatedIATANot regulatedJapanNot 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

Chemical name	CAS No	Chemical Substances Control Law
Tween 20	9005-64-5	Priority assessment chemical substance
Poly(oxyethylene) nonylphenyl ether (NP-40)	9016-45-9	Priority assessment chemical substance

### Act on Prevention of Marine Pollution and Maritime Disaster

Not applicable

**Air Pollution Control Law** 

Volatile organic compound per Air Pollution Control Law article 2, paragraph 4

**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

Revision Date 2021-02-08

**Revision Note**No information available.

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

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA Time weighted average Ceiling Maximum limit value

Skin designation + Sensitizers

\*\* Hazard Designation

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 Chemicals Agency** 

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

#### **Disclaimer**

This SDS complies with the requirements of JIS Z 7253:2019 (Japan). The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials 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**