園TaKaRa

Safety Data Sheet

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

> Revision Date 2021-02-06 Revision Number 5

1. Identification

Product Name TaKaRa Ex Taq®

Product Code SD2108

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 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	Category 3
Chronic aquatic toxicity	Category 3
Ozone	Classification not possible

GHS label elements

<u>(!)</u>

Signal word

Warning

Hazard Statements

Harmful if inhaled

Harmful to aquatic life with long lasting effects

Prevention

- Avoid breathing dust/fume/gas/mist/vapors/spray
- · Use only outdoors or in a well-ventilated area
- Avoid release to the environment

Response

- 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

• Dispose of contents/container to an approved waste disposal plant

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) octylphenyl ether(Nonidet P-40)	9036-19-5	0.1 - 1	Existing	(7)-172	Existing	(7)-172

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.

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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.

Clean mouth with water and drink afterwards plenty of water. In case of ingestion

Most important symptoms/effects,

acute and delayed

No information available.

Treat symptomatically. Note to physicians

5. Fire-fighting measures

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

surrounding environment.

Do not scatter spilled material with high pressure water streams. Unsuitable extinguishing media

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.

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

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

Showers **Engineering controls**

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Evewash stations Ventilation systems.

This product, as supplied, does not contain any hazardous materials with occupational **Exposure guidelines**

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

No information available.

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.

No information available

No information available No information available

No information available

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

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance Clear, colorless

Physical state Liquid Color Clear Unpleasant Odor

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

Decomposition temperature

Hq Viscosity

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

Partition Coefficient

(n-octanol/water) Vapor pressure Vapor density Relative density

Particle characteristics

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

Other information

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

10. Stability and reactivity

No information available. Reactivity Chemical stability Stable under normal conditions. Possibility of hazardous reactions None under normal processing.

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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

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

ATEmix (oral) 19,936.70 mg/kg ATEmix (dermal) 15,838.60 mg/kg ATEmix (inhalation-dust/mist) 4.3555 mg/l

1.71439 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

1.71439 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

64.91439 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas) 64.91439 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

1.71439 % 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) octylphenyl	= 1700 mg/kg (Rat)	-	-
ether(Nonidet P-40)			

Abbreviations and acronyms

Rat: Rat

No information available. **Symptoms**

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.

Classification not possible. Respiratory or skin sensitization

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.

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Target organ effects

Kidney. Respiratory system. Eyes. Skin.

STOT - single exposureBased 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. Based on available data, the classification criteria are not met.

Percentage for unknown hazards

0.71439 % 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 Information Classification not possible. Based on available data, the classification criteria are not met.

No information available.

Chemical name	EU - REACH (1907/2006) -	EU - REACH (1907/2006) -	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) octylphenyl	Endocrine disrupting	-	-
ether(Nonidet P-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

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)

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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

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

Other information

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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

Time weighted average TWA 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

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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

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End of Safety Data Sheet