

Safety Data Sheet This safety data sheet complies with the requirements of:

JIS Z 7253:2019

Revision Date 2021-06-16

Revision Number 6

1. Identification

Product Name Product Code Registration number	RT Enzyme Mix 2 SD0590 No information available		
Details of the supplier of the safety	<u>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: Takara Biomedical Technology (Beijing Life Science Park, 22 KeXueYuan Roa 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 Restrictions on use No information a	For research use only. Not for use in diagnostic procedures available		

2. Hazard(s) identification

GHS Classification	
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

Precautionary statements

Prevention

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

Response

- 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

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

General advice	Show this safety data sheet to the doctor in attendance.
In case of inhalation	Remove to fresh air. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately.
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	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.		
Most important symptoms/effects, acute and delayed	Coughing and/ or wheezing. Difficulty in breathing.		
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapors or mists. Use personal protective equipment as required. See section 8 for more information.		
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		
	o. Accidental release measures		
Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Avoid breathing vapors or mists. Use personal protective equipment as required.		
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.		
Other information	Refer to protective measures listed in Sections 7 and 8.		

7. Handling and storage

<u>Handling</u> Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product.
Hygiene Measures <u>Storage</u>	Do not eat, drink or smoke when using this product.
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

	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.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance Physical state Color Odor Odor Threshold	Clear, colorless Liquid Clear Unpleasant No information available	
<u>Property</u> Melting point / freezing point Boiling point/boiling range (°C) Flammability (solid, gas) Upper/lower flammability or explos	<u>Values</u> No data available No data available No data available ive limits	Remarks • Method No information available No information available No information available
Upper flammability limit: Lower flammability limit: Flash point	No data available No data available No data available	ASTM D 56
Evaporation Rate Autoignition temperature Decomposition temperature	No data available 392.8 °C / 739 °F No data available No data available	No information available No information available No information available No information available
pH Viscosity Kinematic viscosity Dynamic Viscosity	No data available	No information available No information available No information available
Water solubility Solubility in other solvents Partition Coefficient	No data available No data available No data available	No information available No information available No information available
(n-octanol/water) Vapor pressure Vapor density Relative density	No data available No data available No data available	No information available No information available No information available
Particle characteristics Particle Size Particle Size Distribution	No data available No data available	Not applicable Not applicable
Other information		
Explosive properties Oxidizing properties	No information available No information available	

10. Stability and reactivity Reactivity No information available. **Chemical stability** Stable under normal conditions. Possibility of hazardous reactions None under normal processing. **Conditions to avoid** Excessive heat. 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) 19,968.30 mg/kg ATEmix (dermal) 15,863.70 mg/kg ATEmix (inhalation-dust/mist) 4.3624 mg/l Unknown acute toxicity 2.00493 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist) Symptoms Coughing and/ or wheezing. **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. Harmful by inhalation. (based on components). Skin contact Specific test data for the substance or mixture is not available. Specific test data for the substance or mixture is not available. Eye contact Based on available data, the classification criteria are not met. Classification not possible. Skin corrosion/irritation 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. Based on available data, the classification criteria are not met. Classification not possible. Carcinogenicity **Reproductive toxicity** Based on available data, the classification criteria are not met. Classification not possible. **Target organ effects** Kidney. Respiratory system. Eyes. Skin. Based on available data, the classification criteria are not met. Classification not possible. STOT - single exposure

Aspiration hazard

STOT - repeated exposure	Based on available data, the classification criteria are not met. Classification not possible.

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

12. Ecological information			
Ecotoxicity	Classification not possible.		
Percentage for unknown hazards	0.00493 % 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	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		
products	environmental legislation.		
Contaminated packaging	Do not reuse empty containers.		
•	Do not reuse empty containers.		
Contaminated packaging	Do not reuse empty containers. 14. Transport information		
Contaminated packaging	Do not reuse empty containers. 14. Transport information Not regulated		
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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

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 Revision Note		2021-06-16 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 ave	rage	Ceiling	Maximum limit value
*	Skin designation		+	Sensitizers
**	Hazard Designation	า		
Agency for Toxic S U.S. Environmenta European Chemica European Food Sa EPA (Environmenta Acute Exposure Ga U.S. Environmenta U.S. Environmenta Food Research Joa Hazardous Substa International Unifor Japan GHS Classia Australia National In NIOSH (National In National Library of National Library of National Toxicolog New Zealand's Che	ubstances and Dise I Protection Agency fety Authority (EFS/ al Protection Agency uideline Level(s) (AE I Protection Agency I Protection Agency I Protection Agency urnal nce Database m Chemical Informa fication ndustrial Chemicals nstitute for Occupation Medicine's ChemID Medicine's PubMed y Program (NTP) emical Classification conomic Co-operation	r) EGL(s)) Federal Insecticide, Fung High Production Volume ation Database (IUCLID) Notification and Assessm onal Safety and Health)	picide, and Roden Chemicals nent Scheme (NIC D) e (CCID) ronment, Health,	CNAS) and Safety Publications

Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

Disclaimer

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End of Safety Data Sheet