

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

Blunting Kination Enzyme Mix **Product Name** Product Code SD0954 **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 In case of emergency, call PERS (Professional Emergency Resource Services) **Emergency telephone number** 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	
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

Harmful if innaled

Prevention

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

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

Not applicable

<u>Other hazards</u> 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

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, No information available. acute and delayed

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			
	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 Exposure guidelines	Showers Eyewash stations 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	No special protective equipment required.
Skin and body protection	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 Upper flammability limit: Lower flammability limit:	<u>Values</u> ive limits	Remarks • Method No information available No information available No information available
Flash point Evaporation Rate Autoignition temperature Decomposition temperature pH Viscosity	392.8 °C / 739 °F	ASTM D 56 No information available No information available No information available No information available
Kinematic viscosity Dynamic Viscosity Water solubility Solubility in other solvents Partition Coefficient (n-octanol/water)		No information available No information available No information available No information available No information available
Vapor pressure Vapor density Relative density Particle characteristics Particle Size Particle Size Distribution		No information available No information available No information available Not applicable Not applicable
Other information Explosive properties	No information available	
Oxidizing properties	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.

 Incompatible materials
 None known based on information supplied.

 Hazardous Decomposition Products
 None known based on information supplied.

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

2.74856 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
2.74856 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
65.94856 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
65.94856 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
2.74856 % 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.
Target organ effects STOT - single exposure	Kidney. Respiratory system. Eyes. Skin. 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	0.74856 % 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 environmental legislation.		
Contaminated packaging	Do not reuse empty containers.		
	14. Transport information		
	· · · · · · · · · · · · · · · · · · ·		
IMDG_	Not regulated		
ADR	Not regulated		
IATA_	Not regulated		
Japan	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 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

	10.			
Revision Date Revision Note	2021-02-06 No information av	vailable.		
Legend Section 8: EXF TWA Tim * Skir	eviations and acronyms used in OSURE CONTROLS/PERSONA e weighted average designation ard Designation		t Maximum limit value Sensitizers	
Agency for Toxic Substa U.S. Environmental Pro European Chemicals Ag European Food Safety EPA (Environmental Pro Acute Exposure Guideli U.S. Environmental Pro U.S. Environmental Pro Food Research Journal Hazardous Substance I International Uniform Cl Japan GHS Classification Australia National Indus NIOSH (National Institu National Library of Med National Library of Med National Toxicology Pro New Zealand's Chemica Organization for Econor	Authority (EFSA) betection Agency) ne Level(s) (AEGL(s)) tection Agency Federal Insecticion tection Agency High Production No Database nemical Information Database (IL on trial Chemicals Notification and A te for Occupational Safety and He cine's ChemID Plus (NLM CIP) cine's PubMed database (NLM F gram (NTP) al Classification and Information I nic Co-operation and Development nic Co-operation and Development te Co-operation and Developme	SDR) base de, Fungicide, and Rode Volume Chemicals JCLID) Assessment Scheme (N ealth) PUBMED) Database (CCID) ent Environment, Health ent High Production Volu	ICNAS) , and Safety Publications ume Chemicals Program	
to the best of our knowl guidance for safe handl	edge, information and belief at th ing, use, processing, storage, tra e information relates only to the s	e date of its publication. nsportation, disposal an	mation provided in this Safety Data Sheet is co The information given is designed only as a d release and is not to be considered a warran ted and may not be valid for such material us	inty or

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,

combination with any other materials or in any process, unless specified in the text.

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