# **園TaKaRa**

# **Safety Data Sheet**

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

> Revision Date 2021-02-05 Revision Number 6

# 1. Identification

Product Name Mbo II Product Code SD0196

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	Classification not possible
Chronic aquatic toxicity	Classification not possible
Ozone	Classification not possible

# GHS label elements



Signal word Warning

#### Hazard Statements Harmful if inhaled

#### 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

#### 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

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

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.

**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

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** 

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

# Physical and chemical properties

#### Information on basic physical and chemical properties

**Appearance** Clear, colorless

**Physical state** Liquid Color Clear Odor Unpleasant

**Odor Threshold** No information available

Property Values Remarks • Method

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:

ASTM D 56 Flash point

**Evaporation Rate** No information available

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

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)

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

Particle characteristics

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

Other information

No information available **Explosive properties 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.

None known based on information supplied. Incompatible materials Hazardous Decomposition Products None known based on information supplied.

**Explosion Data** 

Sensitivity to static discharge 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

1.99453 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

1.99453 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

65.09453 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas) 65.09453 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor) 1.99453 % 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 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

 $0.99453\ \%$  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

<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

**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** 2021-02-05

**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 Ceiling **TWA** 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

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**End of Safety Data Sheet**