# **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
 DEF-CS™ GF-3

 Product Code
 SL0039

 CAS-No
 7732-18-5

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 e

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

| Not classified                                     |                                |
|--|--------------------------------|
| 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)          | Classification not possible    |
| 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    |
|  |                                |

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#### **GHS label elements**

#### **Hazard Statements**

Not classified

#### Prevention

· Not applicable

#### Response

· Not applicable

#### Storage

Not applicable

#### **Disposal**

· Not applicable

#### Other hazards

No information available.

## 3. Composition/information on ingredients

Pure substance/mixture

CAS-No

Mixture 7732-18-5

#### 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.

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. In case of eye contact

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.

Note to physicians Treat symptomatically.

## 5. Fire-fighting measures

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**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.

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

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** 

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.

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

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#### 9. Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance Frozen liquid
Physical state Liquid

ColorNo information availableOdorNo information availableOdor ThresholdNo information available

PropertyValuesRemarks • MethodMelting point / freezing pointNo information availableBoiling point/boiling range (°C)No information availableFlammability (solid, gas)No information available

Upper/lower flammability or explosive limits

Upper flammability limit: Lower flammability limit:

Flash point ASTM D 56

Evaporation RateNo information availableAutoignition temperatureNo information availableDecomposition temperatureNo information availablepHNo information available

**Viscosity** 

Kinematic viscosity
Dynamic Viscosity
No information available
Partition Coefficient
No information available

(n-octanol/water)

Vapor pressureNo information availableVapor densityNo information availableRelative densityNo information available

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

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

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

0.83108 % of the mixture consists of ingredient(s) of unknown acute oral toxicity 0.83108 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

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0.83108 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

0.83108 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

0.83108 % 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.

**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

0.83108 % of the mixture consists of component(s) of unknown hazards to the aquatic

environment.

Persistence and degradability No information available.

**Bioaccumulation** No information available.

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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

<u>IATA</u> 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

#### **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

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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

TWA Time weighted average Ceiling Maximum limit value

\* Skin designation + Sensitizers

#### 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

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**End of Safety Data Sheet**