

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SARTORIUS

NutriFreez D10

Version	Revision Date:	SDS Number:	Date of last issue: 19.05.2021
1.1	03.09.2021	SAG-R0002216	Date of first issue: 19.05.2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name	: NutriFreez D10
Product code	: 05-713-1E
Substance name	: NutriFreez® D10 Cryopreservation Medium - 05-713-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture	: NutriFreez® D10 Cryopreservation Medium is a ready-to-use, animal component-free, serum-free, and protein-free cell freezing solution optimized for multiple cell lines. When culturing cells in a serum-free environment, it is essential to also maintain serum-free conditions during cryopreservation.
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1.3 Details of the supplier of the safety data sheet

Company	: Biological Industries Israel Beit-Haemek Ltd. Kibbutz Beit-Haemek 2511500, Israel
Telephone	: +972.4.9960595
Telefax	: +972.4.9968896
E-mail address of person responsible for the SDS	: CA-FM Department: Environment@sartorius.com
Contact person	: Product Management
Technical Support:	: South America, Asia/Pacific/Europe/Middle East/Africa: support@bioind.com

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1.4 Emergency telephone number

UK/Europe/Global: +44.1865.407.333 (Sartorius 29003)
United States: +1.866.928.0789 (Toll free), (Sartorius 29003)
Canada: +1.800.579.7421 (Toll free), (Sartorius 29003)
United States & Canada (geographic): +1.202.464.2554 (Sartorius 29003)
Asia-Pacific/East & South East Asia (without China): +65.3158.1074 (Sartorius 29003)
Japan: +81.3.4578.9341 (Sartorius 29003)
Indonesia: 007.803.011.0293 (Toll free Indonesia), (Sartorius 29003)
Malaysia: +60.3.6207.4347 (Sartorius 29003)
Thailand: 001.800.120.666.751 (Toll free Thailand), (Sartorius 29003)
India: 000.800.100.7479 (Toll free India) or +65.3158.1198 (Sartorius 29003)
South Korea: +82.2.3479.8401 (Sartorius 29003)
Australia: +61.2.8014.4558 (Sartorius 29003)
New Zealand: +64.9.929.1483 (Sartorius 29003)
Middle East/Africa: +44.1235.239671 (Sartorius 29003)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Labelling REGULATION (EC) No 1272/2008

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Aqueous solution
Reagent

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Dimethyl sulfoxide	67-68-5 200-664-3			<= 15

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SECTION 4: First aid measures

4.1 Description of first aid measures

- | | |
|-------------------------|---|
| If inhaled | : Move to fresh air. If irritation or breathing problems persist, please contact medical personnel. |
| In case of skin contact | : Wash off with plenty of water.
If symptoms persist, call a physician. |
| In case of eye contact | : Rinse thoroughly with plenty of water, also under the eyelids.
If eye irritation persists, consult a specialist. |
| If swallowed | : Thoroughly rinse mouth with water. After rinsing, drink large amounts of water.

If symptoms persist, call a physician. |

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1 Extinguishing media

- | | |
|------------------------------|--|
| Suitable extinguishing media | : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
|------------------------------|--|

5.2 Special hazards arising from the substance or mixture

- | | |
|---------------------------------------|-----------------------------|
| Specific hazards during fire-fighting | : No information available. |
|---------------------------------------|-----------------------------|

5.3 Advice for firefighters

- | | |
|---|--|
| Special protective equipment for firefighters | : In the event of fire, wear self-contained breathing apparatus. |
| Further information | : The product itself does not burn.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid formation of aerosol.

6.2 Environmental precautions

Environmental precautions : Do not let product enter drains.
Should not be released into the environment.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Pick up and transfer to properly labelled containers.

6.4 Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Hygiene measures : Keep container tightly closed. When using do not eat or drink.
When using do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry, cool (2-8 °C), dark and well-ventilated place.

Further information on storage conditions : Store between 2°C (36°F) to 8°C (46°F) to prevent quality issues.

Storage class (TRGS 510) : 10-13, German Storage Class 10 to 13

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Personal protective equipment

Eye protection : Goggles

Hand protection

Remarks : butyl-rubber
Nitrile rubber

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Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Skin and body protection : Lab coat

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: Aqueous solution
Colour	: red
Odour	: not significant
pH	: 7,2
	to $\leq 7,6$
Upper explosion limit	: Upper flammability limit 63 %(V)
Lower explosion limit	: Lower flammability limit 1,8 %(V)
Solubility(ies)	
Water solubility	: completely miscible

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

10.2 Chemical stability

10.3 Possibility of hazardous reactions

Hazardous reactions : None known.

10.4 Conditions to avoid

10.5 Incompatible materials

Materials to avoid : Oxidizing agents
Acids and bases

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10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Components:

Dimethyl sulfoxide:

Acute oral toxicity : LD50 Oral (Rat, male and female): 28.300 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male and female): 5,33 mg/l
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 Dermal (Rat, male and female): ca. 40.000 mg/kg

Skin corrosion/irritation

Components:

Dimethyl sulfoxide:

Species: Rabbit

Exposure time: 4 h

Method: OECD Test Guideline 404

Remarks: slight irritation

Serious eye damage/eye irritation

Components:

Dimethyl sulfoxide:

Species: Rabbit

Exposure time: 24 h

Method: OECD Test Guideline 405

Remarks: slight irritation

Respiratory or skin sensitisation

Components:

Dimethyl sulfoxide:

Species: Mouse

Method: OECD Test Guideline 429

Result: Does not cause skin sensitisation.

Species: Guinea pig

Method: OECD Test Guideline 406

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Result: Does not cause skin sensitisation.

Germ cell mutagenicity

Components:

Dimethyl sulfoxide:

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects

Genotoxicity in vivo : Result: In vivo tests did not show any chromosomal changes.

Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects.

Carcinogenicity

Components:

Dimethyl sulfoxide:

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Components:

Dimethyl sulfoxide:

Effects on fertility :
Remarks: No embryotoxic effects have been observed in animal tests.

Effects on foetal development : Remarks: This information is not available.

Reproductive toxicity - Assessment : Animal testing did not show any effects on foetal development.

Repeated dose toxicity

Components:

Dimethyl sulfoxide:

Species: Monkey, male and female

NOAEL: 2.870 mg/kg

Application Route: Oral

Method: OECD Test Guideline 452

Species: Rat, male and female

2,8 mg/l

Application Route: inhalation (dust/mist/fume)

Method: No information available.

Species: Monkey, male and female

NOAEL: 8.910 mg/kg

Application Route: Dermal

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Method: OECD Test Guideline 452

Further information

Product:

Remarks: The product contains no substances known to be hazardous to health in concentrations which need to be taken into account.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Dimethyl sulfoxide:

Toxicity to fish : (Brachydanio rerio (zebrafish)): 36.200 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
GLP: yes

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Not relevant

12.6 Other adverse effects

Product:

Additional ecological information : Remarks: In large quantities, this product may affect the functioning of waste-water treatment plants.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : In accordance with local and national regulations.

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SECTION 14: Transport information

14.1 UN number

14.2 UN proper shipping name

14.3 Transport hazard class(es)

14.4 Packing group

14.5 Environmental hazards

14.6 Special precautions for user

Remarks : Not dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Water contaminating class : WGK 1 slightly hazardous to water (Germany)

15.2 Chemical safety assessment

SECTION 16: Other information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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