

SAFETY DATA SHEET

Prepared in accordance to article 31 of EU regulation 1907/2006/EC
Generic SDS – No Country Specific Data

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier

Product Name: DMSO (>99.5% for TC)
Product Number(s): GTC25.0550
Brand: GRISP
REACH No. N/A

1.2 Relevant identified uses of the substance/mixture and uses advised against:

Identified uses: Laboratory chemicals, for research only.
Uses advised against: Not intended for human or animal diagnostics, therapeutics or other clinical uses.

1.3 Company/Undertaking Identification

Company: GRISP, Lda.
Edifício Central do UPTEC
Rua Alfredo Allen, 455|461
4200-135 PORTO, Portugal
Tel: +351-220301599
Fax: +351-220301597
E-mail: info@grisp.pt

1.4 Emergency telephone number:

Emergency telephone number: +351-808 250143 (Poison Information Centre, CIAV, Lisbon) or check local emergency contact information

2 Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008

Not a hazardous substance or mixture

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008

None

2.3 Other hazards

None

3 Composition/information on ingredients

3.1 Description: Organic Solvent for Cryopreservation

3.2 Chemical Characterization: Substance

Synonyms: Dimethyl Sulfoxide, Methyl Sulfoxide, DMSO Cell Culture Grade

3.2.1

Substance	Formula	CAS	EC-No	%	REACH	Classification (CLP)
DMSO	C ₂ H ₆ OS	67-68-5	200-664-3	>99.5	N/A	Not hazardous

3.2.2 Components not listed here are either not dangerous or their concentrations do not exceed the limits specified in Regulation (EC) No 1272/2008.

4 First aid measures

4.1 Description of First aid measures:

General information:	Consult a physician. Show this safety data sheet to the doctor in attendance
Inhalation:	If inhaled, move exposed person to fresh air. If not breathing, begin artificial respiration immediately and obtain medical attention.
Eye contact:	In case of contact with eyes, rinse with plenty of water for at least 15 minutes. Remove contact lenses. If pain or irritation occurs obtain medical attention.
Skin contact:	In case of contact with skin, flush with copious amounts of water for at least 15 minutes. If pain or irritation occurs, obtain medical attention.
Ingestion:	If swallowed, immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

Not applicable

4.3 Indication of any immediate medical attention and special treatment needed

No specific medical attention or treatment required

5 Fire-fighting measures

5.1 Extinguishing Media :

CO₂, powder or water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture

Special Fire and Explosion Hazards

None.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Avoid contact with skin, eyes and clothing. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

6.2 Environmental Precautions:

Avoid spill to prevent migration. Do not allow product to enter drains. Dispose of contents/container in accordance to national and local regulations.

6.3 Methods and material for containment and cleaning up:

Absorb with appropriate material (e.g., sawdust, sand, diatomite, acid binders, universal binders, sodium bicarbonate, crushed limestone, etc.) and place in closed adequate container suitable for disposal.

7 Handling and storage

7.1 Handling: Avoid skin and eye contact. Provide appropriate exhaust ventilation at places where dust is formed.

7.2 Storage: According to product specifications.

7.3 Specific end uses:

No further relevant information available

8 Exposure controls/personal protection

8.1 Control Parameters

8.2 Exposure Controls

This product is for research only and has not been intended/approved for any other commercial, drug, medicinal, household or other consumer purposes. Avoid all unnecessary exposure. Wear tightly fitting safety goggles, suitable protective clothing, and gloves. Do not wear contact lenses. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Handle in accordance with good industrial hygiene and safety practice.



Protective gloves



Tightly sealed goggles



Protective work clothing

Appropriate Engineering Controls. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

9 Physical and chemical properties

9.1. Physical State:	Liquid
9.2. Appearance:	Colourless
9.3. Odor:	Odorless
9.4. pH (25°C):	Undetermined
9.5. Flash Point:	87°C- closed cup – ASTM D 93
9.6. Melting point:	16-19°C
9.7. Boiling point:	189°C
9.8. Self-ignition:	>300°C
9.9. Danger of explosion:	Does not present an explosion hazard
9.10 Solubility in water:	Miscible

10 Stability and reactivity

10.1 Reactivity	Forms explosive mixtures with air on intense heating (A range of approximately 15°C below Flash Point is rated as critical)
10.2 Chemical Stability	Stable at ambient conditions
10.3 Conditions to avoid	Strong heating Exposure to moisture
10.4 Materials to avoid	Risk of explosion if in contact with: acetylidene, organic halides, perchlorates, Acid chlorides, non-metallic halides, Iron (III) compounds, nitrates, fluorides, chlorates, hydrides, perchloric acid, oxides of phosphorus, nitric acid, silver compounds, silicon compounds, acid halides. Risk of Exothermic reaction if in contact with: boron compounds, potassium, sodium, strong oxidizing agents, phosphorus halides, strong reducing agents, acid chlorides, strong acids, silver salt, nitrogen dioxide Risk of Ignition or formation of inflammable gases or vapours if in contact with: potassium permanganate.
10.5 Conditions to avoid	No information available
10.6 Hazardous decomposition products	Not expected to occur.
10.7 Hazardous products of thermal decomposition:	No information available

11 Toxicological information

11.1 Information on toxicological effects

Acute Toxicity:	LD50 Oral – Rat – Male and Female: 28.300 mg/kg (OECD Test Guideline 401) LC0 Inhalation – Rat- Male and Female – 4 hours > 5,33 mg/l – dust/mist (OECD Test Guideline 403) LD50 Dermal – Rat – Male and Female – 40.000mg/kg Remarks: (ECHA)
Irritation:	Skin – Rabbit – 4h: slight irritation ((OECD Test Guideline 404) Eyes – Rabbit – 24h: slight irritation (OECD Test Guideline 405)
Corrosivity:	No additional data available
Sensitisation:	Maximisation Test- Guinea pig – Result: negative (OECD Test Guideline 406) Local lymph node assay (LLNA) – Mouse – Result: negative (OECD Test Guideline 429)
Germ cell mutagenicity:	Ames Test: Negative Sister chromatid exchange assay: Negative Mutagenicity (mammal cell test): chromosome aberration: Negative Mutagenicity (in vivo mammalian bone-marrow cytogenetic test): Negative
Carcinogenicity:	No component of this product present is identified as probable possible or confirmed human carcinogen by IARC
Reproductive toxicity:	No data available
Specific target organ toxicity (single exposure):	No data available
Specific target organ toxicity (repeated exposure):	No data available
Aspiration hazard:	No data available

12 Ecological Information

Toxicity

12.1 Aquatic toxicity

static test LC50 – Danio rerio (zebrafish) > 25.000mg/L – 96h (OECD Test Guideline 203)
static test LC50 – Daphnia magna (Water flea) > 24.600mg/L – 48h (OECD Test Guideline 202)
static test ErC50 – Pseudokirchneriella subcapitata (green algae) > 17.000mg/L – 72h (OECD Test Guideline 201)
EC50 – activated sludge (bacteria) 10-100mg/l – 30min (ISO 8192)

12.2 Persistence and degradability:

No further relevant information available

12.3 Bioaccumulative potential

No further relevant information available

12.4 Mobility in Soil:

No further relevant information available

12.5 Other adverse effects:

No further relevant information available

Results of PBT and vPvB assessment

This product does not contain any substances that are assessed to be a PBT or a vPvB

13 Disposal Considerations

Dispose in accordance to all National and local environmental regulations.

14 Transport Information

IATA/ADR/DOT-US/IMDG

Not regulated in the meaning of transport regulations

14.1 UN number

No dangerous good in sense of transport regulation

14.2 UN proper shipping name

Not applicable

14.3 Additional information

No supplementary information available

Land transport ADR/RID (cross-border)

Not dangerous goods

Maritime transport IMDG

Not dangerous goods

Air transport ICAO-TI and IATA-DGR

Not dangerous goods

15 Regulatory Information

15.1 US Federal Regulations

No additional information available

15.2 International Regulations

EU Regulations

No additional information available

Classification according to Regulation (EC) No 1272/2008 [CLP]

No additional information available

15.3 National Regulations

No additional information available

15.4 US State Regulations

No additional information available

15.5 Other Regulations

No additional information available

16 Other information

The information mentioned above is based on our present knowledge and is believed to be correct. However, it shall only be used as a guide and shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. GRISP, Lda. shall not be held liable for any damage resulting from the handling or from contact with the above product. This SDS has been prepared in accordance with EU Regulation 1907/2006/EC and other EU legislation in force.