

SAFETY DATA SHEET

According to 1907/2006/EC (REACH), 453/2010/EU, 2015/830/EU

Trade Name: **DMSO**

Date of data sheet: **01.02.2018**

Changes: /

Version: **1.0**

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

1.1 Product identifier:

Substance name:

DMSO

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

Consumer uses

Relevant identified uses:

Laboratory chemicals, Manufacture of substances

Uses advised against:

no data available

Reason why uses advised against

no data available

1.3 Details of the Supplier of the safety data sheet

Company: Heiltropfen Lab.. LLP
Address: 27 Old Gloucester street, WC1N 3AX London, United Kingdom
Telephone: +44 746 202 4286
E-Mail, web: info@heiltropfen.de www.heiltropfen.de

1.4. Emergency telephone number

Emergency Number: 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

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

2.2 Label elements

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

Hazard pictograms:

No pictogram

Signal word: No signal word

Hazard statements:

None.

Precautionary statements:

None.

Supplemental Hazard information (EU)

Not applicable. no data available

Supplemental information about hazardous substances, which must appear on the label.

Not applicable. no data available

2.3. Other hazards

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Not applicable. no data available

SECTION 3: Composition/information on ingredients

3.1 SUBSTANCES

Chemical Name	CAS Number EC Number Index Number	Formula	Classification and the labelling in accordance with Regulation (EG) Nr. 1272/2008)
DMSO - Methyl sulfoxide	67-68-5231- 200-664-3 /	C ₂ H ₆ OS	None.

SECTION 4: First aid measures

4.1 Description of first aid measures

Following eye contact:

Remove contact lenses. Rinse copiously with water for at least 10-15 minutes. If eye irritation persists, get medical advice and (if needed) medical attention.

Following skin contact:

If skin irritation occurs : Get medical advice/attention.

Following ingestion

If large quantities are swallowed, rarely irritation, nausea and gastrointestinal upset may occur.

Following inhalation:

Respiratory tract irritation.

4.2 Indication of any immediate medical attention and special treatment needed

No data

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

No data.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Irritation or toxic gases may be occurred in fire-emergency.

5.3 Advice for firefighters

Protective actions (to be taken during firefighting)

Rescuers need to note the personal protective equipment.

Leave the area and extinguish fire in safe range.

Avoid release to the environment.

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Protective equipment:

Chemical resisted equipment for fire-fighter.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes and skin. Use personal protection (see section 8).

6.2 Environmental precautions

Do not let products flow in waterway, drain basement, and sealed room.

6.3 Methods and material for containment and cleaning up

Absorb spilt product with sand or other inert material and flush remnant away with water.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with eyes and skin.

Ensure suitable personal protection equipment (see section 8).

Do not eat, drink or smoke when handling the product.

Wash hands after finishing working with the product.

7.2 Conditions for safe storage, including any incompatibilities

Protect from humidity and water.

Protect from heat and direct sunlight.

Do not eat, drink or smoke when using this product.

Keep container tightly closed in well-ventilated area.

7.3 Specific end use(s)

No specific end uses.

SECTION 8: Exposure controls

8.1 Control parameters

Occupational exposure limits:

Dimethyl sulfoxide, CAS: 67-68-5, Limit value: 160 mg/m³

Keep air level under exposure standard with the engineering management such as process isolation and local ventilation.

Keep air pollution under exposure standard when occur fume or mist in handle.

8.2 Personal protective technical measures (equipment)

Eye and face protection:

Eye protection - Chemical resisted eye protection. Glasses with frame and lateral protection EN : DIN EN 166.

Skin protection:

Skin and body protection - Chemical resisted protective clothing.

Hand protection:

Hand protection - Chemical resisted hand protection. The material of the the gloves has to be impermeable and resistant to the product / substance.

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Respiratory protection:

Chemical resisted respiratory protection. Respiratory protection required when : aerosol or mist.

Suitable respiratory protective equipment : Filter Half Mask (DIN EN 149)

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	liquid, colorless
Odour	Sulfur odour
Odour threshold	no data
pH	no data
Melting point/freezing poin	no data
Initial boiling point and boiling range	189 °C
Flash point	87 °C
Evaporation rate	no data
Flammability (solid, gas)	no data
Vapour pressure	no data
Vapour density	no data
Relative density	no data
Solubility(ies)	no data
Partition coefficient: n-octanol/water	no data
Auto-ignition temperature	300 – 302 °C
Decomposition temperature	no data
Viscosity	no data
Explosive properties	no data
Oxidising properties	no data

9.1 Other information

No data.

SECTION 10: Stability and Reactivity

10.1 Reactivity

No data.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

None under normal processing.

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10.4 Conditions to avoid

Extremes of temperature and direct sunlight.

10.5 Incompatible materials

acid chlorides, Phosphorus halides, Strong acids, Strong oxidizing agents, Strong reducing agents.

10.6 Hazardous decomposition products

None under normal use conditions.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

11.1.1 Acute toxicity

LD50 Oral - Rat - 14.500 mg / kg

LC50 Inhalation - Rat - 4 h - 40250 ppm

LD50 Skin - Rabbit -> 5,000 mg / kg

11.1.2 Skin corrosion/irritation

Light skin irritation.

11.1.3 Serious eye damage/irritation

No data.

11.1.4 Respiratory or skin sensitisation

No data.

SECTION 12: Ecological information

12.1 Toxicity

DMSO:

CAS: 67-68-5

LD50/LC50:

Draize test, rabbit, eye: 100 mg;

Draize test, rabbit, eye: 500 mg/24H Mild;

Draize test, rabbit, skin: 500 mg/24H Mild;

Oral, mouse: LD50 = 7920 mg/kg;

Oral, rat: LD50 = 14500 mg/kg;

Skin, rat: LD50 = 40 gm/kg;

12.2 Persistence and degradability

No data.

12.3 Bioaccumulative potential

No data.

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12.4 Mobility in soil

No data.

12.5 Results of PBT and vPvB assessment

This mixture does not contain PBT or vPvB substances.

12.6 Other adverse effects

No data.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal should be in accordance with applicable regional, national and local laws and regulations.

SECTION 14: Transport Information

Not classified as dangerous in the meaning of transport regulations.

SECTION 15: Regulatory information

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

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other information

(i) Indication of changes:

/

(ii) Abbreviations and acronyms:

ACGIH - American Conference of Governmental Industrial Hygienists
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
AGS - Committee on Hazardous Substances (Ausschuss für Gefahrstoffe)
CLP - Regulation on Classification, Labelling and Packaging of Substances and Mixtures
DFG - German Research Foundation (Deutsche Forschungsgemeinschaft)
Gestis - Information system on hazardous substances of the German Social Accident Insurance (Gefahrstoffinformationssystem der Deutschen Gesetzlichen Unfallversicherung)
IATA - DGR - International Air Transport Association - Dangerous Goods Regulations
ICAO - TI - International Civil Aviation Organization - Technical Instructions
IMDG - International Maritime Code for Dangerous Goods
LTV - Long Term Value
NIOSH - National Institute for Occupational Safety and Health
OSHA - Occupational Safety & Health Administration
PBT - Persistent, Bioaccumulative and Toxic
RID - Regulation concerning the International Carriage of Dangerous Goods by Rail
STV - Short Term Value
SVHC - Substances of Very High Concern
vPvB - very Persistent, very Bioaccumulativ

(iii) Key literature references and sources for data

<http://esis.jrc.ec.europa.eu>

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<http://echa.europa.eu>

<http://eur-lex.europa.eu>

(iv) Further information:

This material safety data sheet complies with the requirements of Regulation (EC) No. 2015/830.

This technical leaflet has been compiled to the best of our knowledge and experience. In view of the large number of possible applications, we are unable to give a guarantee for every case.

In cases of doubt, our technical department should be contacted for further advice. Technical advice for application technique is given without obligation but to the best of our knowledge and experience. Verbal agreements and assurances warrant written confirmation. We are not responsible for any consequences of wrong use or wrong understanding of given information. This technical leaflet supersedes all preceding ones.