

# SAFETY DATA SHEET

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

Trade Name: **DMSO and Magnesium oil**

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

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### 1.1 Product identifier:

**Substance name:**

**DMSO and Magnesium oil**

### 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

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## SECTION 2: Hazards identification

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### 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	m/m %	Classification and the labelling in accordance with Regulation (EG) Nr. 1272/2008
MgCl <sub>2</sub> * 6H <sub>2</sub> O * (11 % MgCl <sub>2</sub> + 29 % H <sub>2</sub> O)	7791-18-6 232-094-6 /	40 %	None
DMSO - Methyl sulfoxide	67-68-5231- 200-664-3 /	60 %	None.

\*Magnesium oil is a solution of inorganic salts in water

## 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.

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Leave the area and extinguish fire in safe range.  
Avoid release to the environment.

## **Protective equipment:**

Chemical resisted equipment for fire-fighter.

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## **SECTION 6: Accidental release measures**

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### **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.

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## **SECTION 7: Handling and storage**

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### **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.

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## **SECTION 8: Exposure controls**

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### **8.1 Appropriate engineering controls**

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

<b>Appearance</b>	liquid, colorless
<b>Odour</b>	garlic odour
<b>Odour threshold</b>	no data
<b>pH</b>	6,3
<b>Melting point/freezing poin</b>	no data
<b>Initial boiling point and boiling range</b>	119,5°C
<b>Flash point</b>	no data
<b>Evaporation rate</b>	no data
<b>Flammability (solid, gas)</b>	no data
<b>Vapour pressure</b>	no data
<b>Vapour density</b>	no data
<b>Relative density</b>	1,18 g/mL
<b>Solubility(ies)</b>	no data
<b>Partition coefficient: n-octanol/water</b>	no data
<b>Auto-ignition temperature</b>	no data
<b>Decomposition temperature</b>	no data
<b>Viscosity</b>	3,1 mPas
<b>Explosive properties</b>	no data
<b>Oxidising properties</b>	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

No data.

## 10.6 Hazardous decomposition products

None under normal use conditions.

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## SECTION 11: Toxicological information

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### 11.1 Information on toxicological effects

#### 11.1.1 Acute toxicity

##### For Product

Product does not present an acute toxicity hazard based on known or supplied information.

#### 11.1.2 Skin corrosion/irritation

No data.

#### 11.1.3 Serious eye damage/irritation

No data.

#### 11.1.4 Respiratory or skin sensitisation

No data.

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## SECTION 12: Ecological information

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### 12.1 Toxicity

#### for substance 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.

### 12.4 Mobility in soil

No data.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain PBT or vPvB substances.

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## 12.6 Other adverse effects

No data.

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## SECTION 13: Disposal considerations

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### 13.1 Waste treatment methods

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

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## SECTION 14: Transport Information

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Not classified as dangerous in the meaning of transport regulations.

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## SECTION 15: Regulatory information

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### 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.

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## SECTION 16: Other information

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### (i) Indication of changes:

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### (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>  
<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.

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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.