



Ion Silver AB

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*MSM-DIMETHYL SULFONE*

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## MATERIAL SAFETY DATA SHEET, 16-SECTION

According to Regulation (EC) No. 1907/2006  
Release Date: Ver. 6.0, 30 March, 2016, Updated: 14 February 2018 (UA)

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND MANUFACTURE

#### 1.1 Product Name Product Name:

Product name : Dimethyl sulfone (MSM)

Product Number : M81705

Brand :

REACH No.: A registration number is not available for this substance as the substance or its uses are exempted from registration. The annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

CAS-No.: 67-71-0

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

Identified uses : Laboratory chemicals, Manufacture of substances

#### 1.3 Details of the supplier of the safety data sheet:

Company name: Ion Silver AB Address: Produktvaegen 12B Zip and City: 24643 Loeddekoeping  
Country: Sweden Telephone: +46 46 712360 Email: [info@ion-silver.com](mailto:info@ion-silver.com) URL <http://www.ion-silver.com> Reg No: 5568878044 Contact: CEO Mr. Anders Sultan

#### 1.4 Emergency telephone Emergency Phone:

+46 70 7284167 or Emergency Response Center in your country

### SECTION 2: HAZARD CLASSIFICATION

#### 2.1 Classification of the substance or mixture

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



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## **2.2 Labeling Data Hazard symbol:**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.  
Does not require labeling. Risk phrases: None. Safety phrases: Ingestion: Safe to ingest. Eye: Safe to use. Skin: Safe to use on skin. Inhalation: No hazard.

## **2.3 Other hazards Description of risk:**

None. No fire or explosion hazard. Health Effects: No known negative health effects. Environmental: The product is classified as not dangerous for the environment.

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

### **3.1 Substances**

Formula : C<sub>2</sub>H<sub>6</sub>O<sub>2</sub>S  
Molecular weight : 94.13 g/mol  
CAS-No.: 67-71-0  
EC-No.: 200-665-9  
No components need to be disclosed according to the applicable regulations

## **SECTION 4: FIRST AID MEASURES**

### **4.1 Description of first aid measures General:**

#### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

#### **In case of skin contact**

Wash off with soap and plenty of water.

#### **In case of eye contact**

Flush eyes with water as a precaution.

#### **If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water.

### **4.2 Other information: Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.



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## SECTION 5: FIRE FIGHTING 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

Carbon oxides, Sulphur oxides

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary

### 5.4 Further information

No data available

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures:

Avoid dust formation. Avoid breathing vapours, mist or gas.  
For personal protection see section 8.

#### 6.1.1 For non-emergency personnel:

Protective gloves for prolonged handling. For emergency responders when cleaning up spillages:  
Gloves for prolonged handling.

### 6.2. Environmental precautions:

For larger spills or discharges, keep away from drains, surface water, groundwater or soil. Contain spillages with sand, earth or any suitable adsorbent material. Inform the local authorities of large spills.

### 6.3 Methods and materials for containment and cleaning up:

Methods for cleaning up: Sweep up and shovel. Keep in suitable, closed containers for disposal.  
Large quantities are collected and provided to the authorities under proper waste disposal rules.



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#### **6.4 Reference to other section:**

Other notes: Individual protection measures, such as personal: Protective equipment: See Section 8.  
Waste treatment: See section 13.

### **SECTION 7: HANDLING AND STORAGE**

#### **7.1 Precautions for safe handling:**

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.  
For precautions see section 2.2.

#### **7.2 Conditions for safe storage, including any incompatibilities:**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.  
Storage class (TRGS 510): Combustible Solids  
Storage stability: Keeps in the original package for at least 48 months.

#### **7.3 Specific end uses:**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

### **SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION**

#### **8.1 Control Parameters:**

#### **8.2 Exposure Safety Signs:**

**Appropriate engineering controls**  
General industrial hygiene practice

#### **Personal protective equipment:**

##### **Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and



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the standard EN 374 derived from it.

**Full contact**

Material: Nitrile rubber  
Minimum layer thickness: 0.11 mm  
Break through time: 480 min  
Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

**Splash contact**

Material: Nitrile rubber  
Minimum layer thickness: 0.11 mm  
Break through time: 480 min  
Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)  
data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail [sales@kcl.de](mailto:sales@kcl.de),  
test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industria situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

**Body Protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

Respiratory protection is not required. Where protection from nuisance le (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

Do not let product enter drains.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties:

- a) Appearance Form: crystalline. Colour: colourless
- b) Odour No data available
- c) Odour Threshold No data available
- d) pH No data available
- e) Melting point/freezing point. Melting point/range: 107 - 109°C
- f) Initial boiling point and boiling range 238°C
- g) Flash point 143°C - closed cup
- h) Evaporation rate No data available
- i) Flammability (solid, gas) No data available
- j) Upper/lower flammability or explosive limits No data available
- k) Vapour pressure No data available



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- l) Vapour density No data available
- m) Relative density No data available
- n) Water solubility No data available
- o) Partition coefficient: noctanol/water No data available
- p) Auto-ignition temperature No data available
- q) Decomposition temperature No data available
- r) Viscosity No data available
- s) Explosive properties No data available
- t) Oxidizing properties No data available

## 9.2 Other safety information

No data available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity:

None known. Reactivity hazards associated with this product: Hazardous decomposition products:  
None

### 10.2 Chemical stability

Stable under recommended storage conditions

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sulphur oxides

Other decomposition products - No data available

In the event of fire: see section 5

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects:

#### Acute toxicity

LD50 Oral - Rat - > 5,000 mg/kg (Dimethyl sulphone)

LD50 Dermal - Rabbit - > 5,000 mg/kg (Dimethyl sulphone)

#### Skin corrosion/irritation

No data available(Dimethyl sulphone)

#### Serious eye damage/eye irritation

No data available (Dimethyl sulphone)



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**Respiratory or skin sensitisation**

No data available (Dimethyl sulphone)

**Germ cell mutagenicity**

No data available (Dimethyl sulphone)

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity**

No data available (Dimethyl sulphone)

**Specific target organ toxicity - single exposure**

No data available (Dimethyl sulphone)

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available (Dimethyl sulphone)

**Additional Information**

RTECS: PB2785000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated (Dimethyl sulphone)

Toxicological information: Other toxicological data: Not available for preparation.

## SECTION 12: ECOLOGICAL INFORMATION

**12.1 Toxicity**

No data available

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available (Dimethyl sulphone)

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**12.6 Other adverse effects**

No data available

## SECTION 13: WASTE TREATMENT

**13.1 Waste treatment methods**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.



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**Contaminated packaging**

Dispose of as unused product.

**SECTION 14: TRANSPORT INFORMATION**

**14.1 UN number**

ADR/RID: - IMDG: - IATA: -

**14.2 UN proper shipping name**

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

**14.3 Transport hazard class(es)**

ADR/RID: - IMDG: - IATA: -

**14.4 Packaging group**

ADR/RID: - IMDG: - IATA: -

**14.5 Environmental hazards**

ADR/RID: no IMDG Marine pollutant: no IATA: no

**14.6 Special precautions for user**

No data available

**SECTION 15: REGULATORY**

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**15.2 Chemical safety assessment**

For this product a chemical safety assessment was not carried out

**SECTION 16: OTHER INFORMATION**

**Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

**List of relevant R/S phrases (Section 2 and 3):**

S2 - Keep away from children S25 - Avoid prolonged contact with eyes