

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Version: 1.1

Creation Date: 2020/05/15

Revision Date: 2024/05/20

## 1. Identification

### Product identifier

Product name Dimethyl Sulfoxide (DMSO)  
 Product number CC01-02  
 Recommended use Biochemical reagent for research use only

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

Manufacture / Supplier Energenesis Biomedical Co., Ltd.  
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## 2. Hazard(s) identification

**Classification of the substance or mixture** Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008 [CLP]

**Label elements** Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008 [CLP]

**Other hazards** This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 3. Composition/information on ingredients

| Substance/mixture              |                            | Substance                            |         |
|--------------------------------|----------------------------|--------------------------------------|---------|
| CAS No.<br>EC No.<br>Index No. | Component Name<br>Synonyms | 1272/2008 (CLP)                      | Percent |
| 67-68-5<br>200-664-3<br>—      | Dimethyl sulfoxide         | Not a hazardous substance or mixture | 98-101  |

**Additional information** For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. First aid measures

### Description of first aid measures

Eye Contact Flush eyes with water as a precaution  
 Inhalation If breathed in, move person into fresh air. If not breathing, give artificial respiration.

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|   |  |
|---|--|
| Skin Contact<br>Ingestion   | Wash off with soap and plenty of water.<br>Never give anything by mouth to an unconscious person. Rinse mouth with water |
| <b>Most important symptoms and effects, both acute and delayed</b>                | The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.       |
| <b>Indication of any immediate medical attention and special treatment needed</b> | No data available  |

## 5. Firefighting measures

### Extinguishing media

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

### Special hazards arising from the substance or mixture

No data available

### Advice for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### Methods and material for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

### Reference to other sections

For disposal see section 13.

## 7. Handling and storage

### Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see section 2.

### Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Protect from light. Recommended storage temperature: Room temperature

### Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

## 8. Exposure controls/personal protection

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|----------------------------------|---|
| <b>Control parameters</b>        | Good general ventilation should be sufficient to control worker exposure to airborne contaminants.  |
| <b>Exposure controls</b>         |   |
| Appropriate engineering controls | Handle in accordance with good industrial hygiene and safety practice.  |
| Personal protective equipment    |   |
| Eye protection                   | Wear chemical safety goggles. An eye wash station must be available where this product is used.   |
| Skin and body protection         | Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.  |
| Respiratory protection           | A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.   |
| Hand protection                  | Wear chemically resistant gloves, Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Have a safety shower available. |

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

|   |                           |
|---|---------------------------|
| Appearance  | Form: liquid Color: clear |
| Odour   | No data available         |
| Odour Threshold                                   | No data available         |
| pH  | No data available         |
| Melting point/freezing point                      | 16-19°C / 60-66°F         |
| Initial boiling point and boiling range           | No data available         |
| Flash point                                       | 87°C / 188°F              |
| Evaporation rate                                  | No data available         |
| Flammability (solid, gas)                         | No data available         |
| Lower and upper explosive (flammable) limits      | No data available         |
| Vapor pressure                                    | No data available         |
| Vapor density                                     | No data available         |
| Relative density                                  | No data available         |
| Solubility  | No data available         |
| Solubility in water                               | No data available         |
| Partition coefficient: n-octanol/ water (log Kow) | No data available         |
| Auto-ignition temperature                         | No data available         |
| Decomposition temperature                         | No data available         |
| Viscosity   | No data available         |

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | No data available   |
| <b>Chemical stability</b>                 | Stable under recommended storage conditions.                                    |
| <b>Possibility of hazardous reactions</b> | Under normal conditions of storage and use, hazardous reactions will not occur. |

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|   |  |
|---|--|
| <b>Conditions to avoid</b>              | Heat, sunlight, high temperature   |
| <b>Incompatible materials</b>           | Strong acids/alkalis, strong oxidising/reducing agents.  |
| <b>Hazardous decomposition products</b> | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

## 11. Toxicological information

|  |   |
|--|---|
| <b>Information on toxicological effects</b>        | No data available   |
| Acute toxicity                                     | No data available   |
| Skin corrosion/irritation                          | No data available   |
| Serious eye damage/eye irritation                  | No data available   |
| Respiratory or skin sensitisation                  | No data available   |
| Germ cell mutagenicity                             | No data available   |
| Carcinogenicity                                    | 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   |
| Specific target organ toxicity - single exposure   | No data available   |
| Specific target organ toxicity - repeated exposure | No data available   |
| Aspiration hazard                                  | No data available   |
| Additional Information                             | No data available   |

## 12. Ecological information

|   |  |
|---|--|
| <b>Toxicity</b>                           | No data available  |
| <b>Persistence and degradability</b>      | No data available  |
| <b>Bioaccumulative potential</b>          | No data available  |
| <b>Mobility in soil</b>                   | No data available  |
| <b>Results of PBT and vPvB assessment</b> | This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. |
| <b>Other adverse effects</b>              | No data available  |

## 13. Disposal considerations

|                                |  |
|--------------------------------|--|
| <b>Waste treatment methods</b> |  |
| Product                        | Offer surplus and non-recyclable solutions to a licensed disposal company. |
| Contaminated packaging         | Dispose of as unused product.  |

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## 14. Transport information

|  |  |
|--|--|
| <b>IATA / ADR / RID / IMDG</b>   | Classified as dangerous in the meaning of transport regulations. |
| <b>UN number</b>   | —  |
| <b>UN proper shipping name</b>   | Not dangerous goods  |
| <b>Transport hazard class(es)</b>  | —  |
| <b>Packaging group</b>   | —  |
| <b>Environmental hazards</b>   | no   |
| <b>Special precautions for user</b>  | No data available  |
| <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | No data available  |

## 15. Regulatory information

|   |  |
|---|--|
| <b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b> | This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. |
| <b>Chemical safety assessment</b>   | No data available  |

## 16. Other information

|                            |   |
|----------------------------|---|
| <b>Abbreviations</b>       |   |
| ADR                        | European Agreement Concerning the International Carriage of Dangerous Goods by Road   |
| IMDG                       | International Maritime Dangerous Goods  |
| IATA                       | International Air Transport Association-Dangerous Goods Regulations   |
| IARC                       | International Agency for Research on Cancer   |
| OSHA                       | Occupational Health and Safety Administration   |
| RID                        | Regulations Concerning the International Carriage of Dangerous Goods by Rail  |
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