

SAFETY DATA SHEET

according to the Global Harmonized System

Dimethylsulfoxide-d6**1. Identification of the substance/preparation and of the company/undertaking**

Use of the Substance/Preparation	Solvent for NMR spectroscopy
Company/Undertaking Identification	ARMAR AG Müligasse 7 CH-5312 Döttingen Schweiz Tel. +41 56 245 2600 admin@armar.ch
Emergency telephone number	Tox-Zentrum Zürich : 145 / +41 44 251 51 51 [24h/7d]
Revision Date	18.03.2010
Version	GHS 1

2. Hazards identification**3. Composition/information on ingredients**

Components		Health hazards	CAS	REACH No.
Dimethylsulfoxide-d6	> 90%		2206-27-1	

4. First aid measures

General advice	The product contains no substances known to be hazardous to health in concentrations which need to be taken into account.
Inhalation	No special measures required.
Skin contact	Wash with water and soap as a precaution.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
Ingestion	Clean mouth with water and drink afterwards plenty of water.

5. Fire-fighting measures

Suitable extinguishing media	Use dry chemical, CO ₂ , water spray or alcohol foam.
Extinguishing media which must not be used for safety reasons	High volume water jet.
Special protective equipment for firefighters	Standard procedure for chemical fires.

6. Accidental release measures

Personal precautions	No special measures required.
Environmental precautions	No special environmental precautions required.
Methods for cleaning up	Clean up promptly by sweeping or vacuum. After cleaning, flush away traces with water.

7. Handling and storage

Handling	No special technical protective measures required.
Storage	Store at room temperature in the original container.

8. Exposure controls / personal protection

Exposure limit(s)	MAK (Maximale Arbeitsplatzkonzentration): 50 ppm.
Occupational exposure controls	General industrial hygiene practice.
Personal protection equipment	
Respiratory protection	No special protective equipment required.
Hand protection	PVC disposable gloves
Eye protection	Avoid contact with eyes.

9. Physical and chemical properties

Form	Liquid.
Colour	Colourless.
Odour	Mild.
Physical and chemical properties	Flash point: 87 °C. Water solubility: completely soluble Fat solubility: completely soluble Melting point/range: 20 °C. Boiling point/range: 190 °C. Density: 1.19 g/ml. Vapour pressure: 250 Pa (20 °C). Explosion limits (lower): 1.8 %. Explosion limits (upper): 63 %.

10. Stability and reactivity

Stability	No decomposition if used as directed.
Conditions to avoid	Vapours in contact with fire or red-hot surfaces may form decomposition products with highly irritating and warning effects.
Hazardous decomposition products	None under normal use.

11. Toxicological information

Acute toxicity	Dimethylsulfoxide-D6 LD50/dermal/rat = 40000 mg/kg. LD50/oral/rat = 14500 mg/kg.
Local effects	Slight skin irritation. DMSO is easily resorbed by skin. Contact with eyes may cause irritation.
Long term toxicity	Negligible.
Sensitization	None.
Human experience	This product has no known adverse effect on human health.

12. Ecological information

Ecotoxicity	EC50/24h/daphnia = 16.25 g/l. LC50/96h/fish = 35 g/l.
Persistence / degradability	Biological degradability 94 %.
Bioaccumulative potential	Bioaccumulation is unlikely.

13. Disposal considerations

Waste from residues / unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Offer rinsed packaging material to local recycling facilities.

14. Transport information

Further Information	Not classified as dangerous in the meaning of transport regulations.
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15. Regulatory information

GHS-Classification	
GHS product identifier	Dimethylsulfoxide-d6, CAS-No. 2206-27-1, EC-No. 218-617-0
S-phrase(s)	S24/25: Avoid contact with skin and eyes.
Regulatory Information	In accordance with Regulation (EC) No. 1272/2008 (GHS/CLP), the product does not need to be classified nor labelled. In accordance with Directive 1999/45/EC, the product does not need to be classified nor labelled.

16. Other information

Further information

Solvent for NMR spectroscopy

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release. It is not to be considered a warranty or quality specification.