

# SAFETY DATA SHEET

according to the Global Harmonized System

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## Deuterium oxide

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### 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 <a href="mailto:admin@armar.ch">admin@armar.ch</a>
Emergency telephone number	Tox-Zentrum Zürich : 145 / +41 44 251 51 51 [24h/7d]
Revision Date	24.03.2010
Version	GHS 1

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### 2. Hazards identification

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### 3. Composition/information on ingredients

Components		Health hazards	CAS	REACH No.
Deuterium oxide	> 90%		7789-20-0	

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#### **4. First aid measures**

<b>General advice</b>	The product contains no substances known to be hazardous to health in concentrations which need to be taken into account.
<b>Inhalation</b>	No special measures required.
<b>Skin contact</b>	No special measures required.
<b>Eye contact</b>	No special measures required.
<b>Ingestion</b>	Drink water as a precaution.

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#### **5. Fire-fighting measures**

<b>Suitable extinguishing media</b>	No special measures required.
<b>Specific hazards</b>	None.
<b>Special protective equipment for firefighters</b>	Not required.

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#### **6. Accidental release measures**

<b>Personal precautions</b>	No special measures required.
<b>Environmental precautions</b>	No special environmental precautions required.

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#### **7. Handling and storage**

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

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#### **8. Exposure controls / personal protection**

<b>Occupational exposure controls</b>	General industrial hygiene practice.
<b>Personal protection equipment</b>	
<b>Respiratory protection</b>	No special protective equipment required.
<b>Eye protection</b>	Avoid contact with eyes.

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## **9. Physical and chemical properties**

<b>Form</b>	Liquid.
<b>Colour</b>	Colourless.
<b>Odour</b>	None.
<b>Physical and chemical properties</b>	pH: 7 (undiluted). Flash point: does not flash. Water solubility: completely soluble Fat solubility: immiscible Melting point/range: 4 °C. Boiling point/range: 101 °C. Density: 1.11 g/ml.

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## **10. Stability and reactivity**

<b>Stability</b>	Stable.
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## **11. Toxicological information**

<b>Acute toxicity</b>	None.
<b>Local effects</b>	Contact with eyes may cause irritation.
<b>Long term toxicity</b>	Negligible.
<b>Sensitization</b>	None.
<b>Human experience</b>	This product has no known adverse effect on human health.

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## **12. Ecological information**

<b>Ecotoxicity</b>	None.
<b>Persistence / degradability</b>	Readily biodegradable.
<b>Bioaccumulative potential</b>	Does not bioaccumulate.

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## **13. Disposal considerations**

<b>Waste from residues / unused products</b>	Can be used without re-conditioning.
<b>Contaminated packaging</b>	Clean drums may be recycled.

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## **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** Deuterium oxide, CAS-No. 7789-20-0, EC-No. 232-148-9

**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.

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## **16. Other information**

**Further information** Not relevant.

**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.