

SAFETY DATA SHEET

according to the Global Harmonized System

Phosphoric acid-d3

1. Identification of the substance/preparation and of the company/undertaking

Use of the Substance/Preparation	Solvent for NMR spectroscopy Chemical intermediate
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	24.03.2010
Version	GHS 1

2. Hazards identification



DANGER!

Skin corrosion/irritation, Cat. 1B
Serious eye damage/eye irritation, Cat. 1

3. Composition/information on ingredients

Components		Health hazards	CAS	REACH No.
Deuterium oxide			7789-20-0	
Phosphorsäure-d3 wasserfrei	20% - 25%	CSk1B	14335-33-2	

4. First aid measures

Inhalation	Move to fresh air.
Skin contact	Wash off immediately with plenty of water. Consult a physician for severe cases.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Protect unharmed eye.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Prevent vomiting if possible. Consult a physician for severe cases.

5. Fire-fighting measures

Specific hazards	The product is not flammable.
Special protective equipment for firefighters	Standard procedure for chemical fires.
Specific methods	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

6. Accidental release measures

Environmental precautions	Do not flush into surface water or sanitary sewer system.
Methods for cleaning up	Clean up promptly by sweeping or vacuum. After cleaning, flush away traces with water.

7. Handling and storage

Handling	Plan first aid action before beginning work with this product. Wear personal protective equipment.
Storage	Store at room temperature in the original container.

8. Exposure controls / personal protection

Exposure limit(s)	Exposure limit(s): 1 mg/m ³ . Short term exposure limit: 2 mg/m ³ .
Occupational exposure controls	Avoid contact with skin, eyes and clothing.
Personal protection equipment	
Respiratory protection	No special protective equipment required.
Hand protection	Gloves made of latex.
Eye protection	Safety glasses with side-shields conforming to EN 166.
Skin and body protection	Wear as appropriate: Impervious clothing.

9. Physical and chemical properties

Form	Liquid.
Colour	Colourless.
Odour	None.
Physical and chemical properties	pH: 1.5 (1 % solution). Water solubility: completely soluble Melting point/range: < 0 °C. Boiling point/range: > 100 °C.

10. Stability and reactivity

Stability	No decomposition if used as directed.
Materials to avoid	Corrodes base metals. Incompatible with bases.
Hazardous decomposition products	None under normal use.

11. Toxicological information

Acute toxicity	LD50/dermal/rabbit = 2740 mg/kg. LD50/oral/rat = 1530 mg/kg. Deuterium oxide None.
Local effects	Causes burns. Extremely corrosive and destructive to tissue.
Long term toxicity	Negligible.
Sensitization	None.

12. Ecological information

Ecotoxicity	May change pH of waters. Deuterium oxide
Persistence / degradability	None. Can be eliminated from water by precipitation.
Bioaccumulative potential	Does not bioaccumulate.

13. Disposal considerations

Waste from residues / unused products	Can be used without re-conditioning.
Contaminated packaging	Offer rinsed packaging material to local recycling facilities.

14. Transport information

ADR/RID	Proper shipping name PHOSPHORIC ACID SOLUTION UN No 1805. Class 8. Packing group III. ADR/RID-Labels 8. Classification code C1. Risk No. 80. Limited quantity LQ7. Tunnel code E
IMO	Proper shipping name Phosphoric acid, solution UN No 1805. Class 8. Packing group III. ADR/RID-Labels 8. Limited quantity 5 L. EmS F-A, S-B.
ICAO	Proper shipping name Phosphoric acid, liquid UN No 1805. Class 8. Packing group III. Packing instruction (passenger aircraft): 819 (5 L). Packing instruction (LQ): Y819 (1 L). Packing instruction (cargo aircraft): 821 (60 L).

15. Regulatory information

GHS-Classification	
Signal Word	DANGER!
Hazard Statements	Causes severe skin burns and eye damage.
Precautionary Statements	Do not breathe dust/fume/gas/mist/vapours/spray. Wash skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Store locked up. Dispose of contents/container to an approved waste disposal plant.
GHS product identifier	Deuterium oxide, CAS-No. 7789-20-0, EC-No. 232-148-9 Phosphorsäure-d3 wasserfrei, CAS-No. 14335-33-2, EC-No. 238-285-0
EC-Symbol(s)	C - Corrosive.
R-phrase(s)	R34: Causes burns.
S-phrase(s)	S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Regulatory Information	The product is classified and labelled according to Regulation (EC) No. 1272/2008 (GHS/CLP). The product is classified and labelled in accordance with Directive 1999/45/EC.

16. Other information

Recommended use	For industrial application only. For research use only.
GHS-Classification	CSk1B: Skin corrosion/irritation, Cat. 1B
Further information	Take notice of the directions of use on the label.
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.