

ARMAR AG Müligasse 7 PO Box CH-5312 Döttingen phone fax e-mail +41 (0)56 245 2600 +41 (0)56 245 4520 admin@armar.ch www.armar.ch

SAFETY DATA SHEET

according to the Global Harmonized System

Acetic acid-d4

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

24.03.2010

Version

GHS 1

2. Hazards identification





DANGER!

Skin corrosion/irritation, Cat. 1A Flammable liquids, Cat. 3

3. Composition/information on ingredients

Components		Health hazards	CAS	REACH No.
Acetic acid-d4	> 90%	CSk1A Fliq3	1186-52-3	

4. First aid measures

Inhalation Move to fresh air. Consult a physician after significant exposure.

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. Do not

induce vomiting. Consult a physician for severe cases.

5. Fire-fighting measures

Suitable extinguishing media Use dry chemical, CO2, water spray or alcohol foam.

Extinguishing media which must not be used for safety reasons

High volume water jet.

Specific hazards Solvents may produce excessive pressure under fire-conditions.

Sealed containers may rupture and ignite. Cool containers / tanks

with water spray. Burning produces irritant fumes.

Special protective equipment for

firefighters

Standard procedure for chemical fires.

Specific methods Do not use a solid water stream as it may scatter and spread fire.

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

6. Accidental release measures

Environmental precautionsNo special environmental precautions required.

Methods for cleaning up Clean up promptly by sweeping or vacuum. Soak up with inert

absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). After cleaning, flush away traces with water.

7. Handling and storage

Handling Provide sufficient air exchange and/or exhaust in work rooms. 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) MAK (Maximale Arbeitsplatzkonzentration): 10 ppm.

Occupational exposure controls Avoid contact with skin, eyes and clothing.

Personal protection equipment

Respiratory protection In the case of mist, spray or aerosol exposure wear suitable

personal respiratory protection and protective suit.

Hand protection Gloves made of latex.

Eye protection Safety glasses with side-shields conforming to EN 166.

Skin and body protectionWear as appropriate: Solvent-resistant apron and boots.

Impervious clothing.

9. Physical and chemical properties

Form Liquid.

Colourless.

Odour Of vinegar.

Physical and chemical properties Flash point: 40 °C.

Water solubility: completely soluble Fat solubility: partly miscible. Melting point/range: 16 °C. Boiling point/range: 116 °C.

Density: 1.12 g/ml.

Vapour pressure: 1540 Pa (20 °C). Explosion limits (lower): 4 %. Explosion limits (upper): 17 %.

10. Stability and reactivity

Stability No decomposition if used as directed.

Conditions to avoid Heating in air. Burning produces obnoxious and toxic fumes.

Materials to avoid Incompatible with strong bases and oxidizing agents. Corrodes

base metals.

Hazardous decomposition

products

None under normal use.

11. Toxicological information

Acute toxicity Deuterated acetic acid

LD50/dermal/rabbit = 1060 mg/kg. LD50/oral/rat = 3310 mg/kg.

Local effects Inhalation of high vapour concentrations may cause symptoms like

headache, dizziness, tiredness, nausea and vomiting. Causes severe burns. Extremly corrosive and destructive to tissue.

Long term toxicity Negligible.

Sensitization None.

12. Ecological information

Ecotoxicity EC50/24h/daphnia = 95 mg/l. LC50/48h/golden orfe = 410 mg/l.

May change pH of waters.

Persistence / degradability

Neutralization is normally necessary before waste water is

discharged into water treatment plants. Readily biodegradable.

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 ACETIC ACID SOLUTION

UN No 2789. Class 8.

Packing group II. ADR/RID-Labels 8+3. Classification code CF1.

Risk No. 83.

Limited quantity LQ22. Tunnel code D/E

IMO Proper shipping name Acetic acid, glacial

UN No 2789. Class 8.

Packing group II. ADR/RID-Labels 8+3. Limited quantity 1 L. EmS F-E, S-C.

Acetic acid-d4
Version GHS 1

ICAO Proper shipping name Acetic acid, glacial

UN No 2789. Class 8. Packing group II.

Packing instruction (passenger aircraft): 809 (1 L).

Packing instruction (LQ): Y809 (0.5 L). Packing instruction (cargo aircraft): 813 (30 L).

15. Regulatory information

GHS-Classification

Signal Word DANGER!

Hazard Statements Flammable liquid and vapour.

Causes severe skin burns and eye damage.

Precautionary Statements Keep away from heat/sparks/open flames/hot surfaces. – No

smoking.

Keep container tightly closed.

Take precautionary measures against static discharge. 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 in a well-ventilated place. Keep cool.

Dispose of contents/container to an approved waste disposal plant.

GHS product identifier Acetic acid-d4, CAS-No. 1186-52-3, EC-No. 214-693-4

EC-Symbol(s) C - Corrosive.

R-phrase(s) R10: Flammable.

R35: Causes severe burns.

S-phrase(s) S23: Do not breathe vapour

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 Solvent for NMR spectroscopy

GHS-Classification CSk1A: Skin corrosion/irritation, Cat. 1A

Fliq3: Flammable liquids, Cat. 3

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.