

SAFETY DATA SHEET

according to the Global Harmonized System

Acetonitrile-d3

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!

Serious eye damage/eye irritation, Cat. 2
Acute toxicity, oral, Cat. 4
Acute toxicity, inhal., Vapours, Cat. 4
Acute toxicity, dermal, Cat. 4
Flammable liquids, Cat. 2

3. Composition/information on ingredients

Components	Health hazards	CAS	REACH No.
Acetonitrile-d3	TAInV4 TADe4 TAOOr4 CEy2 Fliq2	2206-26-0	

4. First aid measures

Inhalation	Move to fresh air. Consult a physician after significant exposure.
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	If conscious, drink plenty of water. Consult a physician if necessary.

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.
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.

6. Accidental release measures

Personal precautions	Remove all sources of ignition. Pay attention to flashback.
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	Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Exposure limit(s)	Exposure limit(s): 20 ppm.
Occupational exposure controls	Avoid contact with skin, eyes and clothing.
Personal protection equipment	
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Hand protection	Gloves made of Butyl. The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
Eye protection	Safety glasses with side-shields conforming to EN 166.
Skin and body protection	Wear as appropriate: Solvent-resistant apron and boots.

9. Physical and chemical properties

Form	Liquid.
Colour	Colourless.
Odour	Acetone-like.
Physical and chemical properties	pH: not applicable. Flash point: < 21 °C. Water solubility: completely soluble Fat solubility: completely soluble Boiling point/range: 80 °C. Density: 0.84 g/ml.

10. Stability and reactivity

Stability	No decomposition if used as directed.
Conditions to avoid	Extremes of temperature and direct sunlight. Take precautionary measures against static discharges.
Materials to avoid	Incompatible with strong bases and oxidizing agents.
Hazardous decomposition products	None under normal use.

11. Toxicological information

Acute toxicity	LC50/inhalation/1h/rat = 20 mg/l.
Local effects	Irritating to eyes. May cause skin irritation with susceptible persons. Harmful by inhalation, in contact with skin and if swallowed. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
Sensitization	None.

12. Ecological information

Ecotoxicity	LC50/48h/golden orfe = 5850 mg/l. EC50/48h/daphnia = 1000 mg/l.
Persistence / degradability	Readily biodegradable.
Bioaccumulative potential	Does not bioaccumulate.
Results of PBT assessment	This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

13. Disposal considerations

Waste from residues / unused products	Can be incinerated, when in compliance with local regulations. Where possible recycling is preferred to disposal or incineration.
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14. Transport information

ADR/RID	Proper shipping name ACETONITRILE UN No 1648. Class 3. Packing group II. ADR/RID-Labels 3. Classification code F1. Risk No. 33. Limited quantity LQ4. Tunnel code D/E
IMO	Proper shipping name Acetonitrile UN No 1648. Class 3. Packing group II. ADR/RID-Labels 3. Limited quantity 1 L. EmS F-E, S-D.

ICAO Proper shipping name Acetonitrile
UN No 1648.
Class 3.
Packing group II.
Packing instruction (passenger aircraft): 305 (5 L).
Packing instruction (LQ): Y305 (1 L).
Packing instruction (cargo aircraft): 307 (60 L).

15. Regulatory information

GHS-Classification
Signal Word DANGER!
Hazard Statements Highly flammable liquid and vapour.
Harmful if swallowed.
Harmful in contact with skin.
Causes serious eye irritation.
Harmful if inhaled.

Precautionary Statements Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
Ground/bond container and receiving equipment.
Take precautionary measures against static discharge.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Wear protective gloves/protective clothing/eye protection/face protection.
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
In case of fire: Use carbon dioxide (co2) for extinction.
Store in a well-ventilated place. Keep cool.
Dispose of contents/container to an approved waste disposal plant.
Acetonitrile-d3, CAS-No. 2206-26-0

GHS product identifier

EC-Symbol(s) F - Highly flammable.
Xn - Harmful.

R-phrase(s) R11: Highly flammable.
R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.
R36: Irritating to eyes.

S-phrase(s) S16: Keep away from sources of ignition - No smoking.
S36/37: Wear suitable protective clothing and gloves.

Hazardous components which must be listed on the label Acetonitrile-d3, CAS-No. 2206-26-0

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 TAO_r4: Acute toxicity, oral, Cat. 4
TADe₄: Acute toxicity, dermal, Cat. 4
TAlnV₄: Acute toxicity, inhal., Vapours, Cat. 4
CEy₂: Serious eye damage/eye irritation, Cat. 2
Fliq₂: Flammable liquids, Cat. 2

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.