

SAFETY DATA SHEET

according to the Global Harmonized System

Nitromethane-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



WARNING!

Acute toxicity, oral, Cat. 4
Flammable liquids, Cat. 3

3. Composition/information on ingredients

Components		Health hazards	CAS	REACH No.
Nitromethane-d3	> 90%	TAOr4 Fliq3	13031-32-8	

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	Flush eyes with water as a precaution. If eye irritation persists, consult a specialist.
Ingestion	If conscious, drink plenty of water. Do not induce vomiting. 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

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. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

7. Handling and storage

Handling	Use only in area provided with appropriate exhaust ventilation.
Storage	Store at room temperature in the original container.

8. Exposure controls / personal protection

Exposure limit(s)	MAK (Maximale Arbeitsplatzkonzentration): 100 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 Nitril.
Eye protection	Safety glasses.
Skin and body protection	Wear as appropriate: Solvent-resistant apron and boots.

9. Physical and chemical properties

Form	Liquid.
Colour	Colourless.
Odour	Ester-like.
Physical and chemical properties	Flash point: 36 °C. Water solubility: 117 g/l (20 °C). Melting point/range: -26 °C. Boiling point/range: 100 °C. Density: 1.19 g/ml (20 °C). Vapour pressure: 3600 Pa (20 °C). Explosion limits (lower): 7.1 %. Explosion limits (upper): 63 %.

10. Stability and reactivity

Stability	No decomposition if used as directed.
Conditions to avoid	Heating in air.
Materials to avoid	Incompatible with strong bases and oxidizing agents.
Hazardous decomposition products	None under normal use.

11. Toxicological information

Acute toxicity	trideuterio-nitromethane; Methane-d3 LD50/dermal/rabbit = > 2000 mg/kg. LD50/oral/rat = 940 mg/kg.
Local effects	Harmful if swallowed. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
Long term toxicity	Negligible.
Sensitization	None.
Human experience	No data is available on the product itself.

12. Ecological information

Ecotoxicity	No data available.
Bioaccumulative potential	Does not bioaccumulate.

13. Disposal considerations

Waste from residues / unused products	Can be used without re-conditioning. Dispose of as hazardous waste in compliance with local and national regulations.
Contaminated packaging	Offer rinsed packaging material to local recycling facilities.

14. Transport information

ADR/RID	Proper shipping name NITROMETHANE UN No 1261. Class 3. Packing group II. ADR/RID-Labels 3. Classification code F1. Risk No. 33. Limited quantity LQ4. Tunnel code E
IMO	Proper shipping name Nitromethane UN No 1261. Class 3. Packing group II. ADR/RID-Labels 3. Limited quantity 1 L. EmS F-E, S-D.

ICAO	Proper shipping name Nitromethane UN No 1261. Class 3. Packing group II. Packing instruction (passenger aircraft): Forbidden. Packing instruction (LQ): –. Packing instruction (cargo aircraft): 307 (60 L).
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15. Regulatory information

GHS-Classification	
Signal Word	WARNING!
Hazard Statements	Flammable liquid and vapour. Harmful if swallowed.
Precautionary Statements	Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed. Take precautionary measures against static discharge. Wash skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Rinse mouth. Store in a well-ventilated place. Keep cool. Dispose of contents/container to an approved waste disposal plant.
GHS product identifier	Nitromethane-d3, CAS-No. 13031-32-8, EC-No. 235-892-2
EC-Symbol(s)	Xn - Harmful.
R-phrase(s)	R5: Heating may cause an explosion. R10: Flammable. R22: Harmful if swallowed.
S-phrase(s)	S41: In case of fire and/or explosion do not breathe fumes.
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	TAO4: Acute toxicity, oral, Cat. 4 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.