

SAFETY DATA SHEET

according to the Global Harmonized System

Chloroform-d

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
Specific target organ toxicity (repeated exposure, oral), Cat. 2
Skin corrosion/irritation, Cat. 2
Specific target organ toxicity (repeated exposure, inhalation), Cat. 2

3. Composition/information on ingredients

Components		Health hazards	CAS	REACH No.
Chloroform-d	> 90%	TAOr4 CSk2 SREIn2 SREOr2	865-49-6	

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	Any.
Specific hazards	The product is not flammable.
Special protective equipment for firefighters	Standard procedure for chemical fires.

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

7. Handling and storage

Handling	Provide sufficient air exchange and/or exhaust in work rooms.
Storage	Store at room temperature in the original container.

8. Exposure controls / personal protection

Exposure limit(s)	MAK (Maximale Arbeitsplatzkonzentration): 0.5 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 VITON.
Eye protection	Safety glasses.

9. Physical and chemical properties

Form	Liquid.
Colour	Colourless.
Odour	Sweet.
Physical and chemical properties	Water solubility: 8.2 g/l. Fat solubility: completely soluble Melting point/range: -64 °C. Boiling point/range: 60 °C. Density: 1.5 g/ml. Vapour pressure: 21100 Pa (20 °C).

10. Stability and reactivity

Stability	No decomposition if used as directed.
Conditions to avoid	Do not freeze. Heating in air.
Hazardous decomposition products	None under normal use.

11. Toxicological information

Acute toxicity	LC50/inhalation/1h/rat = 20 mg/l. LD50/oral/rat = 908 mg/kg.
Local effects	Irritating to skin. Harmful if swallowed. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Long term toxicity	Chronic exposure may cause permanent damage of health.
Sensitization	None.

12. Ecological information

Ecotoxicity	EC50/48h/daphnia > 1000 mg/l . LC50/96h/fish = 162 mg/l.
Bioaccumulative potential	Does not bioaccumulate.

13. Disposal considerations

Waste from residues / unused products	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 CHLOROFORM UN No 1888. Class 6.1. Packing group III. ADR/RID-Labels 6.1. Classification code T1. Risk No. 60. Limited quantity LQ7. Tunnel code E
IMO	Proper shipping name Chloroform UN No 1888. Class 6.1. Packing group III. ADR/RID-Labels 6.1. Limited quantity 5 L. EmS F-A, S-A.
ICAO	Proper shipping name Chloroform UN No 1888. Class 6.1. Packing group III. Packing instruction (passenger aircraft): 610 (60 L). Packing instruction (LQ): Y610 (2 L). Packing instruction (cargo aircraft): 612 (220 L).

15. Regulatory information

GHS-Classification	
Signal Word	WARNING!
Hazard Statements	Harmful if swallowed. Causes skin irritation. May cause damage to organs through prolonged or repeated exposure if inhaled. May cause damage to organs through prolonged or repeated exposure if swallowed.

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: Call a POISON CENTER or doctor/physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Dispose of contents/container to an approved waste disposal plant. Chloroform-d, CAS-No. 865-49-6, EC-No. 212-742-4
GHS product identifier	
EC-Symbol(s)	Xn - Harmful.
R-phrase(s)	R22: Harmful if swallowed. R38: Irritating to skin. R40: Limited evidence of a carcinogenic effect. R48/20/22: Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
S-phrase(s)	S36/37: Wear suitable protective clothing and gloves.
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

GHS-Classification	TAOr4: Acute toxicity, oral, Cat. 4 CSk2: Skin corrosion/irritation, Cat. 2 SREIn2: Specific target organ toxicity (repeated exposure, inhalation), Cat. 2 SREOr2: Specific target organ toxicity (repeated exposure, oral), Cat. 2
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.