

SAFETY DATA SHEET

according to the Global Harmonized System

Hexafluoro-2-propanol-d2

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

Synonyms	1,1,1,3,3,3-Hexafluoro-2-propanol-d2; Hexafluoro-isopropanol-d2
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	21.05.2010
Version	GHS 1

2. Hazards identification



DANGER!

Acute toxicity, inhal., Vapours, Cat. 4
Acute toxicity, oral, Cat. 4
Acute toxicity, dermal, Cat. 4
Skin corrosion/irritation, Cat. 1B

3. Composition/information on ingredients

Components		Health hazards	CAS	REACH No.
Hexafluoro-2-propanol-d2	> 90%	TAInV4 TADe4 TAOOr4 CSk1B	38701-74-5	

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	If conscious, drink plenty of water. Prevent vomiting if possible. Consult a physician for severe cases.

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	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	No special environmental precautions required.
Methods for cleaning up	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	Plan first aid action before beginning work with this product. Wear personal protective equipment. Use only in well-ventilated areas.
Storage	Store at room temperature in the original container.

8. Exposure controls / personal protection

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 Chloroprene.
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	Alcoholic.
Physical and chemical properties	Flash point: does not flash. Water solubility: completely soluble Boiling point/range: 58 °C. Melting point/range: -4 °C. Density: 1.62 g/ml. Vapour pressure: 430 Pa (20 °C).

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	Corrodes base metals.
Hazardous decomposition products	None under normal use.

11. Toxicological information

Local effects	Harmful by inhalation, in contact with skin and if swallowed. Extremely corrosive and destructive to tissue.
Long term toxicity	Negligible.
Sensitization	None.

12. Ecological information

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.

14. Transport information

ADR/RID Proper shipping name CORROSIVE LIQUID, TOXIC, N.O.S.
UN No 2922.
Class 8.
Packing group II.
ADR/RID-Labels 8+6.1.
Classification code CT1.
Risk No. 86.
Limited quantity LQ22.
Tunnel code E

IMO Proper shipping name Corrosive liquid, toxic, n.o.s.
UN No 2922.
Class 8.
Packing group II.
ADR/RID-Labels 8+6.1.
Limited quantity 1 L.
EmS F-A, S-B.

ICAO Proper shipping name Corrosive liquid, toxic, n.o.s.
UN No 2922.
Class 8.
Packing group II.
Packing instruction (passenger aircraft): 808 (1 L).
Packing instruction (LQ): Y808 (0.5 L).
Packing instruction (cargo aircraft): 812 (30 L).

15. Regulatory information

GHS-Classification	
Signal Word	DANGER!
Hazard Statements	Harmful if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage. Harmful if inhaled.
Precautionary Statements	Do not breathe dust/fume/gas/mist/vapours/spray. Wash skin thoroughly after handling. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. 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. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Dispose of contents/container to an approved waste disposal plant. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. Store locked up.
GHS product identifier	Hexafluoro-2-propanol-d2, CAS-No. 38701-74-5
EC-Symbol(s)	C - Corrosive. Xi - Irritant.
R-phrase(s)	R20/21/22: Harmful by inhalation, in contact with skin and if swallowed. R34: Causes burns.
S-phrase(s)	S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28: After contact with skin, wash immediately with plenty of soap and water. S36/37/39: Wear suitable protective clothing, gloves and eye / face protection. 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 Chemical intermediate. Laboratory chemicals.
GHS-Classification	TAOr4: Acute toxicity, oral, Cat. 4 TADe4: Acute toxicity, dermal, Cat. 4 TAInV4: Acute toxicity, inhal., Vapours, Cat. 4 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.