

SAFETY DATA SHEET

according to the Global Harmonized System

Tetramethylsilane

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

Use of the Substance/Preparation	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!

Flammable liquids, Cat. 1

3. Composition/information on ingredients

Components		Health hazards	CAS	REACH No.
Tetramethylsilan	> 90%	Fliq1	75-76-3	

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	Do not induce vomiting. Consult a physician if necessary.

5. Fire-fighting measures

Suitable extinguishing media	Dry chemical.
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. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

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

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.

9. Physical and chemical properties

Form	Liquid.
Colour	Colourless.
Odour	Mild.
Physical and chemical properties	Flash point: -27 °C. Water solubility: insoluble Melting point/range: -102 °C. Boiling point/range: 26 °C. Density: 0.65 g/ml (20 °C). Explosion limits (lower): 1 %. Explosion limits (upper): 37.9 %.

10. Stability and reactivity

Stability	No decomposition if used as directed.
Conditions to avoid	Heating in air.
Hazardous decomposition products	None under normal use.

11. Toxicological information

Local effects	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

Persistence / degradability No data is available on the product itself.

13. Disposal considerations

Waste from residues / unused products Can be incinerated, when in compliance with local regulations.

Contaminated packaging Offer rinsed packaging material to local recycling facilities.

14. Transport information

ADR/RID Proper shipping name TETRAMETHYLSILANE
UN No 2749.
Class 3.
Packing group I.
ADR/RID-Labels 3.
Classification code F1.
Risk No. 33.
Limited quantity LQ3.
Tunnel code D/E

IMO Proper shipping name Tetramethylsilane
UN No 2749.
Class 3.
Packing group I.
ADR/RID-Labels 3.
Limited quantity Keine.
EmS F-E, S-D.

ICAO Proper shipping name Tetramethylsilane
UN No 2749.
Class 3.
Packing group I.
Packing instruction (passenger aircraft): Forbidden.
Packing instruction (LQ): –.
Packing instruction (cargo aircraft): 304 (30 L).

15. Regulatory information

GHS-Classification	
Signal Word	DANGER!
Hazard Statements	Extremely flammable liquid and vapour.
Precautionary Statements	Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. In case of fire: Use dry chemical for extinction. Store in a well-ventilated place. Keep cool. Dispose of contents/container to an approved waste disposal plant.
GHS product identifier	Tetramethylsilan, CAS-No. 75-76-3, EC-No. 200-899-1
EC-Symbol(s)	F+ - Extremely flammable.
R-phrase(s)	R12: Extremely flammable.
S-phrase(s)	S9: Keep container in a well-ventilated place. S16: Keep away from sources of ignition - No smoking. S29: Do not empty into drains. S43: In case of fire, use dry chemical.
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	NMR spectroscopy
GHS-Classification	Fliq1: Flammable liquids, Cat. 1
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.