

SAFETY DATA SHEET

according to the Global Harmonized System

Styrene-d8

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

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

2. Hazards identification



WARNING!

Acute toxicity, inhal., Vapours, Cat. 4
Skin corrosion/irritation, Cat. 2
Serious eye damage/eye irritation, Cat. 2
Flammable liquids, Cat. 3

3. Composition/information on ingredients

Components		Health hazards	CAS	REACH No.
Styrene-d8	> 90%	TAInV4 CEy2 CSk2 Fliq3	19361-62-7	

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	Do not induce vomiting. 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

Environmental precautions	No special environmental precautions required.
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). After cleaning, flush away traces with water.

7. Handling and storage

Handling	No special technical protective measures required.
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 Nitrile.
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	Aromatic.
Physical and chemical properties	Flash point: 32 °C. Water solubility: 0.32 g/l. Boiling point/range: = 50 °C (15 mmHg). Melting point/range: -30 °C. Density: 0.98 g/ml (20 °C). Vapour pressure: 730 Pa (20 °C). Explosion limits (lower): 1.1 %. Explosion limits (upper): 8 %.

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	Styrene-D8 LD50/oral/rat = 2650 mg/kg.
Local effects	Irritating to eyes and skin. May cause irritation of the mucous membranes. Harmful by inhalation. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
Long term toxicity	Negligible.
Sensitization	None.

12. Ecological information

Persistence / degradability	Readily biodegradable.
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 STYRENE MONOMER, STABILIZED UN No 2055. Class 3. Packing group III. ADR/RID-Labels 3. Classification code F1. Risk No. 39. Limited quantity LQ7. Tunnel code D/E
IMO	Proper shipping name Styrene monomer, stabilized UN No 2055. Class 3. Packing group III. ADR/RID-Labels 3. Limited quantity 5 L. EmS F-E, S-D.

ICAO

Proper shipping name Styrene monomer, stabilized
UN No 2055.
Class 3.
Packing group III.
Packing instruction (passenger aircraft): 309 (60 L).
Packing instruction (LQ): Y309 (10 L).
Packing instruction (cargo aircraft): 310 (220 L).

15. Regulatory information**GHS-Classification****Signal Word****Hazard Statements**

WARNING!

Flammable liquid and vapour.

Causes skin irritation.

Causes serious eye irritation.

Harmful if inhaled.

Precautionary Statements

Avoid breathing dust/fume/gas/mist/vapours/spray.

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Call a POISON CENTER or doctor/physician if you feel unwell.

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.

Store in a well-ventilated place. Keep cool.

Dispose of contents/container to an approved waste disposal plant.

Keep container tightly closed.

GHS product identifier

Styrene-d8, CAS-No. 19361-62-7

EC-Symbol(s)

Xn - Harmful.

R-phrase(s)

R10: Flammable.

R20: Harmful by inhalation.

R36/38: Irritating to eyes and skin.

S-phrase(s)

S23: Do not breathe vapour

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

TAlnV4: Acute toxicity, inhal., Vapours, Cat. 4
CSk2: Skin corrosion/irritation, Cat. 2
CEy2: Serious eye damage/eye irritation, Cat. 2
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.