



SAFETY DATA SHEET

Version number:	36
Issued:	2025-09-29
Replaces SDS:	2023-03-25

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) No. 2020/878 - Sweden

FIBERFIX Styren

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name

FIBERFIX Styren

Name of the chemical

Styrene, stabilized

UFI code

8GF8-AJ72-K998-V9AG

CAS number

100-42-5

EC number

202-851-5

REACH registration number

01-2119457861-32

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

For the preparation of paints and as a solvent.

SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites.

SU12 - Manufacture of plastics products, including compounding and conversion.

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen).

PC32 - Polymer preparations and compounds.

PROC3 - Use in closed batch process (synthesis or formulation).

PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises.

PROC5 - Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact).

PROC7 - Industrial spraying.

PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities.

PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities.

PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing).

PROC10 - Roller application or brushing.

PROC11 - Non industrial spraying.

PROC15 - Use as laboratory reagent.

Identified use(s):

Consumer

Professional

Industry



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1.3. Details of the supplier of the safety data sheet

Supplier

Färg-In AB

Address

Bodalsvägen 6
681 43 Kristinehamn
Sweden

Telephone

+46 55010045

Email

info@fargin.se

Web site

www.fargin.se

Contact person

Johan Thynell

1.4. Emergency telephone number

See National Telephone Number (112) Poison control center

Available outside office hours

Yes

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classification

Flammable liquids, hazard category 3
Reproductive toxicity, hazard category 2
Acute toxicity, inhalation, hazard category 4
Specific Target Organ Toxicity — Repeated exposure, hazard category 1
Skin irritation, hazard category 2
Eye irritation, hazard category 2
Specific Target Organ Toxicity — Single exposure, hazard category 3
Hazardous to the aquatic environment — Chronic hazard category 3

Hazard statements

H226, H304, H315, H319, H332, H335, H361d, H372, H412

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2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H361d Suspected of damaging the unborn child

H372 Causes damage to organs through prolonged or repeated exposure auditory organs.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P411 Store at temperatures not exceeding 25 °C/ °F.

P501 Dispose of contents/container to approved waste receiver.

More information

Contains: styrene

2.3. Other hazards

The substance/mixture does not contain any components considered to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in concentrations of 0.1% or higher



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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Specific concentra- tion limits ATE	Note
styrene	100-42-5 202-851-5 01-2119457861-32 601-026-00-0	60 - 100%	Flam. Liq. 3, Skin Irrit. 2, Eye Irrit. 2, Acute Tox. 4 - inhalation, Repr. 2, STOT RE 1	H226, H315, H319, H332, H361d, H372 - -		D

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention.

Skin contact

Promptly flush contaminated skin with soap or mild detergent and water. Promptly remove clothing if penetrated and flush the skin with water.

If skin irritation or rash occurs: Get medical advice/attention.

Eye contact

Immediately flush with plenty of water for at least 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Continue flushing during transport to hospital. Bring along these instructions.

Ingestion

Rinse mouth with water. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs.

Get immediate medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

May be fatal if swallowed and enters airways.

Contains solvents, which may have an effect on the nervous system.

The liquid may irritate the skin, the eyes and the respiratory tract.

Harmful if swallowed, in contact with skin or if inhaled.

May cause allergic contact eczema.



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4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam, carbon dioxide or dry powder. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

The product is flammable, and heating may generate vapours which may form explosive vapour/air mixtures.

In case of fire, toxic gases may be formed. Vapours are heavier than air and may travel along the floor and in the bottom of containers. Vapours may be ignited by a spark, a hot surface or an ember.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Collect spillage. Avoid release to the environment.

For personal protection, see section 8.

Provide adequate ventilation.

Do not smoke or use open fire, or other sources of ignition.

Avoid inhalation of vapours and aerosols and contact with skin and eyes.

Evacuate area.

Avoid release to the environment.

Stop leak if safe to do so.

6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground.

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Remove sources of ignition. Beware of the explosion danger.

Absorb in vermiculite, dry sand or earth and place into containers.



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6.4. Reference to other sections

For personal protection, see section 8.
See section 12.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

Flammable/combustible - Keep away from oxidisers, heat and flames.
Keep away from heat, sparks and open flame.
Avoid spilling, skin and eye contact.
Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.
Risk of vapour concentration on the floor and in low-lying areas.
Ground container and transfer equipment to eliminate static electric sparks.
Even an empty container can contain vapours, with the associated risk of explosion.

7.2. Conditions for safe storage, including any incompatibilities

Flammable/combustible - Keep away from oxidisers, heat and flames.
Store in a well-ventilated place.
Store at temperatures not exceeding 25°C / 77°F.
Protect from heat and direct sunlight.
Ground container and transfer equipment to eliminate static electric sparks.
Use non sparking handtools and explosion-proof electric equipment.
Take precautionary measures against static discharges.
Keep/Store only in original container.
Do not store without adding an inhibitor.

7.3. Specific end use(s)

May not be stored without the addition of an inhibitor.



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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure limits

Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m³	Short-term exposure limit ppm / mg/m³	Source	Remark	Year
styrene	100-42-5 202-851-5	100 / 430 /	250 / 1080 /	EH40/2005		-

DNEL/DMEL

Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
styrene (100-42-5/202-851-5)	DNEL	Acute (short term) Inhalation	289 mg/m³	Workers	Systemic
styrene (100-42-5/202-851-5)	DNEL	Acute (short term) Inhalation	306 mg/m³	Workers	Local
styrene (100-42-5/202-851-5)	DNEL	Chronic (long term) Dermal	406 mg/kg bw/day	Workers	Systemic
styrene (100-42-5/202-851-5)	DNEL	Chronic (long term) Inhalation	85 mg/m³	Workers	Systemic
styrene (100-42-5/202-851-5)	DNEL	Acute (short term) Inhalation	174.25 mg/m³	Consumers	Systemic
styrene (100-42-5/202-851-5)	DNEL	Acute (short term) Inhalation	182.75 mg/m³	Consumers	Local
styrene (100-42-5/202-851-5)	DNEL	Chronic (long term) Dermal	343 mg/kg bw/day	Consumers	Systemic
styrene (100-42-5/202-851-5)	DNEL	Chronic (long term) Inhalation	10.2 mg/m³	Consumers	Systemic
styrene (100-42-5/202-851-5)	DNEL	Chronic (long term) Oral	2.1 mg/kg bw/day	Consumers	Systemic

PNEC/PEC

Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
styrene	PNEC	Freshwater	0.028 mg/l

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Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
(100-42-5/202-851-5)			
styrene (100-42-5/202-851-5)	PNEC	Marine water	0.0028 mg/l
styrene (100-42-5/202-851-5)	PNEC	Sediment (freshwater)	0.614 mg/kg
styrene (100-42-5/202-851-5)	PNEC	Sediment (marine water)	0.0614 mg/kg
styrene (100-42-5/202-851-5)	PNEC	Soil	0.2 mg/kg
styrene (100-42-5/202-851-5)	PNEC	Sewage Treatment Plant	5 mg/l

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

All handling to take place in well-ventilated area.

Personal Protective Equipment Symbols



Eye / face protection

Use eye protection according to EN 166.

Hand protection

The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Other skin protection

Wear appropriate clothing to prevent repeated or prolonged skin contact.

When using do not eat, drink or smoke.

Respiratory protection

At work in confined or poorly ventilated spaces, respiratory protection with air supply must be used.

Use respiratory equipment with gas filter, type A2.



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Viscous liquid.

Colour

Colourless to pale yellow.

Odour

Pungent.

Melting point / freezing point

-31 °C

Boiling point or initial boiling point and boiling range

145 °C

Flammability

No data available

Lower and upper explosion limit

0.9 - 6.8 %

Flash point

31 °C

Auto-ignition temperature

490 °C

Decomposition temperature

No data available

pH

No data available

Kinematic viscosity

0.73 mPa · s

Viscosity, dynamic

0.7 mPa · s

Solubility

~ 0.32 g/l

Method

Solubility in water



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Partition coefficient n-octanol/water

~ 2.95

Method

log Pow

Vapour pressure

6.67 hPa

Density and/or relative density

0.906 g/cm³

Relative vapour density

~ 3.6

Evaporation Rate

0,49; (BuAc=1)

VOC %

910 g/l

Particle characteristics

No data available

9.2. Other information

Vapour density: 3,6; (Luft=1)

Bulk density : 0,91

SECTION 10: Stability and reactivity

10.1. Reactivity

Avoid contact with strong oxidisers.

Polymerises generating heat.

10.2. Chemical stability

Stable under normal temperature conditions.

Maintain dissolved oxygen and inhibitor at proper levels to prevent runny polymerization

10.3. Possibility of hazardous reactions

May polymerise.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition.

Do not store without adding an inhibitor.

10.5. Incompatible materials

Avoid contact with oxidising agents. Strong acids. Strong alkalis. copper



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10.6. Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

Acute toxicity

Harmful if inhaled. Harmful if swallowed.

Product / Sub- stance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Remarks
styrene 100-42-5 / 202-851-5	LC50	11800 ppm	Inhalation.	4 hours	Rat	Vapour
styrene 100-42-5 / 202-851-5	NOAEL	615 mg/kg	Dermal	-	Rat	-
styrene 100-42-5 / 202-851-5	NOAEL	20 ppm	Inhalation.	-	Rat	Gas.
styrene 100-42-5 / 202-851-5	LD50	5000 mg/kg	-	-	Rat	-
styrene 100-42-5 / 202-851-5	LD50	> 2000 mg/kg	-	-	Rat	-
styrene 100-42-5 / 202-851-5	LD50	5000 mg/kg	Oral	-	Rat	-
styrene 100-42-5 / 202-851-5	LD50	> 2000 mg/kg	Dermal	-	Rat	-
styrene 100-42-5 / 202-851-5	LC50	11,8 mg/l	Inhalation.	4 hours	Rat	-
styrene 100-42-5 / 202-851-5	LD50	2650 mg/kg	Oral	-	Rat	-



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Product / Sub- stance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Remarks
styrene 100-42-5 / 202-851-5	LC50	2770 ppm	Inhalation.	4 hours	Rat	Vapour

Skin corrosion/irritation

Causes skin irritation.

Product / Substance name CAS / EC no.	Result	Value / Dose	Species
styrene 100-42-5 / 202-851-5	Slightly irritating.	500 mg	Rabbit
styrene 100-42-5 / 202-851-5	Moderately Irritating.	100%	Rabbit

Serious eye damage/irritation

Causes serious eye irritation.

Product / Substance name CAS / EC no.	Result	Value / Dose	Duration of exposure	Species
styrene 100-42-5 / 202-851-5	Slightly irritating.	50 ppm	-	Human
styrene 100-42-5 / 202-851-5	Moderately Irritating.	100 mg	24 hours	Rabbit
styrene 100-42-5 / 202-851-5	Strongly irritating.	100 mg	-	Rabbit

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.
IARC Group 2B Possibly carcinogenic to humans.



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Reproductive toxicity

Suspected of damaging the unborn child. Fertility - NOAEC 500 ppm, Inhalation, Rat OCED 416
Developmental toxicity: - NOAEC: 150 ppm, Inhalation, Rat

STOT-single exposure

May cause respiratory irritation. NOAEC 216 ppm, Inhalation, Human 1 hour

STOT-repeated exposure

Causes damage to organs (hearing organs) through prolonged or repeated exposure.

Aspiration hazard

May be fatal if swallowed and enters airways.

Toxicity in case of inhalation

In high concentrations, vapours may irritate throat and respiratory system and cause coughing.
In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea.

Toxicity in case of skin contact

Irritating to skin.
Prolonged skin contact may cause redness and irritation.

11.2. Information on other hazards

Endocrine disrupting properties

No information available.

SECTION 12: Ecological information

12.1. Toxicity

Toxicity

Harmful to aquatic life with long lasting effects.

Acute fish toxicity

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline	Remark
styrene 100-42-5 / 202- 851-5	LC50	3,24 - 4,99 mg/l	96 hours	Pimephales pro- melas (Fat-head Minnow)	flow-through	-
styrene 100-42-5 / 202- 851-5	LC50	58,75-95,32 mg/l	96 hours	Poecilia reticu- lata (Guppy)	static.	-
styrene	LC50	4020 µg/l	96 hours	Pimephales pro-	-	Freshwater



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Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline	Remark
100-42-5 / 202-851-5				melas (Fat-head Minnow)		
styrene 100-42-5 / 202-851-5	LC50	3,24-95,32 mg/l	96 hours	Pimephales pro-melas (Fat-head Minnow)	-	-

Acute algae toxicity

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of expos- ure	Species	Remark
styrene 100-42-5 / 202-851-5	EC50	0,46 - 4,3 mg/l	72 hours	Pseudokirchneriella subcapita	-
styrene 100-42-5 / 202-851-5	EC50	33 mg/l	96 hours	Pseudokirchneriella subcapitata	Freshwater

Acute crustacean toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
styrene 100-42-5 / 202-851-5	EC50	3,3 - 7,4 mg/l	48 hours	Daphnia magna

Chronical toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
styrene 100-42-5 / 202-851-5	NOEC	1,01 mg/l	21 days	Daphnia magna

12.2. Persistence and degradability
The product is readily biodegradable.



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12.3. Bioaccumulative potential

Bioaccumulation: Is not expected to be bioaccumulable.

BCF: 74

log Pow: 2,95

Product / Substance name CAS / EC no.	LogKow / LogPow	Bioconcentration factor (BCF)	Result	Species
styrene 100-42-5 / 202-851-5	2,96	35,5	-	Fish
styrene 100-42-5 / 202-851-5	-	13.39	Low	-
styrene 100-42-5 / 202-851-5	2,95	74	-	-

12.4. Mobility in soil

Mobility

The product is insoluble in water.

Jord - Log Koc: 352 @ 20°C

Product / Substance name CAS / EC no.	KOC	Mobility	Remark
styrene 100-42-5 / 202-851-5	-	0,032 N/m	19 °C
styrene 100-42-5 / 202-851-5	2.55	-	-
styrene 100-42-5 / 202-851-5	-	0,032 N/m	19 °C

12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

12.6. Endocrine disrupting properties

No information available.

12.7. Other adverse effects

Not entered.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

Dispose of waste and residues in accordance with local authority requirements.

Waste is classified as hazardous waste.

Send to a licensed waste management company.

Other

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

SECTION 14: Transport information

14.1. UN number

2055

14.2. UN proper shipping name

ADR / RID / ADN proper shipping name

STYRENE MONOMER, STABILIZED

14.3. Transport hazard class(es)

Label

ADR/RID/ADN



3

ADR / RID Class

3

ADR / RID Classification code

F1

ADR / RID hazard identification number

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ADN Class

3



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ADN Class Code

F1

14.4. Packing group

ADR / RID / ADN: III

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Special precautions for user

Tunnel restriction code: D/E

Transport category: 3

IMDG EmS

F-E, S-D

14.7. Maritime transport in bulk according to IMO instruments

Ship type: 3 Pollution category: Cat Y

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

No data available

15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

Other

Exposure scenario sent upon request.

SECTION 16: Other information

Changes to previous revision

section 1 -16



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Phrase meaning

STOT SE 3 - Specific Target Organ Toxicity — Single exposure, hazard category 3

Aquatic Chronic 3 - Hazardous to the aquatic environment — Chronic hazard category 3

Flam. Liq. 3 - Flammable liquids, hazard category 3

Repr. 2 - Reproductive toxicity, hazard category 2

Acute Tox. 4 - inhalation - Acute toxicity, inhalation, hazard category 4

STOT RE 1 - Specific Target Organ Toxicity — Repeated exposure, hazard category 1

Skin Irrit. 2 - Skin irritation, hazard category 2

Eye Irrit. 2 - Eye irritation, hazard category 2

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H361d Suspected of damaging the unborn child

H372 Causes damage to organs through prolonged or repeated exposure auditory organs.

H372 Causes damage to organs through prolonged or repeated exposure .

H412 Harmful to aquatic life with long lasting effects.

Other

Additional information

This information is based on the information known to us at the time of preparation and it has been given in good faith and on the condition that the product is used under normal conditions and in accordance with the specified method of use. Any other use of the product, if any. together with other products or processes, takes place at the user's own risk.