

# SAFETY DATA SHEET

Version number:	35
Issued:	2023-03-25
Replaces SDS:	2022-12-13

According to Regulation (EC) No 1907/2006

## 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

**Article No.**

9092

**UFI code**

7WV2-GTCH-5C9T-GXHF

Voluntary registration carried out in ECHA's Poison Centres.

**CAS number**

100-42-5

**EC number**

202-851-5

**REACH registration number**

01-2119457861-32

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### 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

### 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

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### 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

Skin irritation, hazard category 2

Eye irritation, hazard category 2

Acute toxicity, inhalation, hazard category 4

Reproductive toxicity, hazard category 2

Specific Target Organ Toxicity — Repeated exposure, hazard category 1

#### Hazard statements

H226, H315, H319, H332, H361d, H372

### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

#### Hazard pictograms



#### Signal word

Danger

#### Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H361d Suspected of damaging the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure .

#### Precautionary statements

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

P240 Ground and bond container and receiving equipment.

P260 Do not breathe dust / fume / gas / mist / vapours / spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P309 + P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

P501 Dispose of contents/container to approved waste receiver.

#### More information

Contains: styrene

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### 2.3. Other hazards

This product does not contain any PBT or vPvB substances.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
styrene	100-42-5 202-851-5 01-2119457861-32 601-026-00-0	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

#### Substance additional information

Organic ; Mono-constituent substance .

## 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

The liquid may irritate the skin, the eyes and the respiratory tract. Harmful if swallowed, in contact with skin or if inhaled.

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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 earthing of containers, equipment, pumps and ventilation facilities.

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 in closed original container at temperatures between 5°C and 30°C.

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.

### 7.3. Specific end use(s)

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

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### National occupational exposure limits

Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m <sup>3</sup>	Short-term exposure limit ppm / mg/m <sup>3</sup>	Source	Remark	Year
styrene	100-42-5	100	250	EH40/2005	-	-
	202-851-5	430	1080			

DNEL/DMEL

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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/m <sup>3</sup>	Workers	Systemic
styrene (100-42-5/202-851-5)	DNEL	Acute (short term) Inhalation	306 mg/m <sup>3</sup>	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/m <sup>3</sup>	Workers	Systemic
styrene (100-42-5/202-851-5)	DNEL	Acute (short term) Inhalation	174.25 mg/m <sup>3</sup>	Consumers	Systemic
styrene (100-42-5/202-851-5)	DNEL	Acute (short term) Inhalation	182.75 mg/m <sup>3</sup>	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/m <sup>3</sup>	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 (100-42-5/202-851-5)	PNEC	Freshwater	0.028 mg/l
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.

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### Personal Protective Equipment Symbols



### Eye / face protection

Wear tight-fitting goggles or face shield.

### Hand protection

Viton rubber (fluor rubber).

Fluoroelastomer (FKM)

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 AX.

## 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.

#### Odour threshold

0,1 ppm

#### 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

1.1 - 6.1 %



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### **Flash point**

32 °C

### **Auto-ignition temperature**

490 °C

### **Decomposition temperature**

No data available

### **pH**

No data available

### **Kinematic viscosity**

0.773 mm<sup>2</sup>/s

### **Viscosity, dynamic**

0.7 mPa · s

### **Solubility**

Soluble in ethanol and in acetone.

### **Water solubility**

Insoluble in water.

### **Partition coefficient n-octanol/water**

2,95; 25 °C

### **Vapour pressure**

670 Pa

### **Density and/or relative density**

0.906 g/cm<sup>3</sup>

### **Relative vapour density**

No data available

### **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

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Heating may cause a fire or explosion.  
Take precautionary measures against static discharges.

#### 10.2. Chemical stability

Stable under normal temperature conditions.

#### 10.3. Possibility of hazardous reactions

None under normal conditions.

#### 10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition.  
Avoid exposure to high temperatures or direct sunlight.

#### 10.5. Incompatible materials

Avoid contact with oxidising agents.

#### 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
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

##### Skin corrosion/irritation

Causes skin irritation.

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### **Serious eye damage/irritation**

Causes serious eye irritation.

### **Respiratory or skin sensitisation**

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

### **Germ cell mutagenicity**

Inconclusive data.

### **Carcinogenicity**

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

### **Reproductive toxicity**

May damage the unborn child. Suspected of damaging fertility.

### **STOT-single exposure**

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

### **STOT-repeated exposure**

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

### **Aspiration hazard**

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

### **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**

Non Corrosive to skin.

## 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
styrene	LC50	3,24 - 4,99 mg/l	96 hours	Pimephales pro-	flow-through

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Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
100-42-5 / 202-851-5				melas (Fat-head Minnow)	
styrene 100-42-5 / 202-851-5	LC50	58,75-95,32 mg/l	96 hours	Poecilia reticulata (Guppy)	static.

**Acute algae toxicity**

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species
styrene 100-42-5 / 202-851-5	EC50	0,46 - 4,3 mg/l	72 hours	Pseudokirchneriella subcapita

**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

**12.2. Persistence and degradability**

The product is readily biodegradable.

**12.3. Bioaccumulative potential****Bioaccumulative potential**

Bioaccumulation: Is not expected to be bioaccumulable. (BCF <500)

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

**12.4. Mobility in soil****Mobility**

The product contains organic solvents which will evaporate easily from all surfaces.

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Product / Substance name CAS / EC no.	Mobility	Remark
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****Other adverse effects**

Not entered.

**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.

**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

**IMDG proper shipping name**

STYRENE MONOMER, STABILIZED

**IATA proper shipping name**

Styrene monomer, stabilized

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### 14.3. Transport hazard class(es)

#### Label

ADR/RID/ADN



3

IMDG



3

IATA



3

#### ADR / RID Class

3

#### ADR / RID Classification code

F1

#### ADR / RID hazard identification number

39

#### IMDG Class

3

#### IATA Class

3

#### ADN Class

3

#### ADN Class Code

F1

### 14.4. Packing group

ADR / RID / ADN: III

IMDG: III

IATA: III

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### 14.5. Environmental hazards

#### IMDG Marine Pollutant

No.

### 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

No.

#### Other

#### Additional information IMDG

Limited quantity : 5 L

Reduced quantity : E1

Special provisions: TP1

#### Additional information IATA (ICAO)

Packaging instruction 355; 356

Limited quantity : 10 L

Special provisions: A209

ERG-kod: 3 L

#### Other ADN information

Annan relevant information ADN: 386

Särbestämmelser: VE01

Begränsad mängd: 5 L

Reducerad mängd: E1

## SECTION 15: Regulatory information

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

#### EU regulations

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, with amendments.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

Volatile Organic Compound (VOC): 91 %

Restriction of chemicals according to Annex XVII (REACH): None.

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### National regulations

No data available

### 15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

## SECTION 16: Other information

### Changes to previous revision

UFI, for voluntary registration in ECHA's Poison Centres, according to recommendations from the Swedish Poisons Information Centre (GIC).

### Phrase meaning

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

Skin Irrit. 2 - Skin irritation, hazard category 2

Eye Irrit. 2 - Eye irritation, hazard category 2

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

Repr. 2 - Reproductive toxicity, hazard category 2

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

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H361d Suspected of damaging the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure .

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