SAFETY DATA SHEET

FIBERFIX Styren _EN

The safety data sheet is in accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued	06.05.2016
Revision date	25.03.2023

1.1. Product identifier

Product name	FIBERFIX Styren _EN
REACH Reg. No.	01-2119457861-32
CAS No.	100-42-5
EC No.	202-851-5
Article no.	9092
Product definition	Styrene, stabilized
Product identity comments	UFI: 7WV2-GTCH-5C9T-GXHF

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

Use of the substance / mixture	For the preparation of paints and as a solvent.
Relevant identified uses	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: publicly accessible (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 mixture (charging and discharging) at nondedicated facilities PROC8b Transfer of substance or mixture (charging and discharging) 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
Uses advised against	No information is available.
Industrial use	Yes
Professional use	Yes
Consumer use	Yes

1.3. Details of the supplier of the safety data sheet

Distributor

Company name	Färg-In AB
Postal address	Bodalsvägen 6
Postcode	SE-681 43
City	Kristinehamn
Country	SWEDEN
Telephone number	+46 55010045
Fax	+46 55081001
Email	info@fargin.se
Website	www.fargin.se
Enterprise No.	SE-556187-9387
Contact person	Johan Thynell

1.4. Emergency telephone number

Emergency telephone	Telephone number: See National Thelephone Number (112) Description: Poison control center

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H332 Repr. 2; H361d STOT RE 1; H372 Flam. Liq. 3; H226
In compliance with ATP nr.	CLP14- 2020/217

2.2. Label elements

Hazard pictograms (CLP)

Composition on the label	Styren
Signal word	Danger
Hazard statements	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 of hearing through prolonged or repeated exposure H226 Flammable liquid and vapour.
Precautionary statements	P210 Keep away from heat / sparks / open flames / hot surfaces. – 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 receivers.

2.3. Other hazards

PBT / vPvB	The product does not contain any PBT or vPvB substances.

SECTION 3: Composition / information on ingredients

3.1. Substances

Substance type	Organic
Composition type	Mono-constituent substance

Substance	Identification	Classification	Contents	Notes
Styren	CAS No.: 100-42-5 EC No.: 202-851-5 Index No.: 601-026-00-0	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H332 Repr. 2; H361d STOT RE 1; H372	100 %	

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	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 up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Continue flushing during transport to hospital. Bring 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

Acute symptoms and effects	Irritating to eyes, respiratory system and skin. Harmful by inhalation, in contact with skin and if swallowed.

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

Medical treatment	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.
Improper 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

Fire and explosion hazards	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

Fire fighting procedures	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

General measures	Collect spillage. Avoid release to the environment.
Personal protection measures	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.
Emergency procedures	Evacuate area.
For emergency responders	Avoid release to the environment.

Stop leak if safe to do so.

6.2. Environmental precautions

Environmental precautionary measures	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

Cleaning method	Remove sources of ignition. Beware of the explosion danger. Absorb in vermiculite, dry sand or earth and place into containers.

6.4. Reference to other sections

Other instructions	See also section 8 and 12.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	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.

7.2. Conditions for safe storage, including any incompatibilities

Storage	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.

Conditions for safe storage

Technical measures and storage conditions	Use non sparking handtools and explosion-proof electric equipment.
Storage stability	Take precautionary measures against static discharge.

7.3. Specific end use(s)

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

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
Styren	CAS No.: 100-42-5	Limit value (8 h) : 100 ppm Limit value (8 h) : 430 mg/	TWA Year: 2011

	m³ **Limit value (short term)** Value: 250 ppm **Limit value (short term)** Value: 1080 mg/m³

DNEL / PNEC

Substance	Styren
DNEL	**Group:** Industrial **Route of exposure:** Acute inhalation (systemic) **Value:** 289 **Group:** Industrial **Route of exposure:** Acute inhalation (local) **Value:** 306 mg/m³ **Group:** Industrial **Route of exposure:** Long-term dermal (systemic) **Value:** 406 **Group:** Industrial **Route of exposure:** Long-term inhalation (systemic) **Value:** 85 mg/m³ **Group:** Consumer **Route of exposure:** Acute inhalation (systemic) **Value:** 174,25 mg/m³ **Group:** Consumer **Route of exposure:** Acute inhalation (local) **Value:** 182,75 mg/m³ **Group:** Consumer **Route of exposure:** Long-term dermal (systemic) **Value:** 343 **Group:** Consumer **Route of exposure:** Long-term inhalation (systemic) **Value:** 10,2 mg/m³ **Group:** Consumer **Route of exposure:** Long-term oral (systemic) **Value:** 2,1
PNEC	**Route of exposure:** Freshwater **Value:** 0,028 mg/l **Route of exposure:** Saltwater **Value:** 0,0028 mg/l **Route of exposure:** Freshwater sediments **Value:** 0,614 mg/kg **Route of exposure:** Saltwater sediments **Value:** 0,0614 mg/kg

Route of exposure: Soil
Value: 0,2 mg/kg

Route of exposure: Sewage treatment plant STP
Value: 5 mg/l

8.2. Exposure controls

Limitation of exposure on workplace	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.

Safety signs

Eye / face protection

Eye protection	Wear tight-fitting goggles or face shield.

Hand protection

Hand protection	Fluoroelastomer (FKM) Viton rubber (fluor rubber). The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Skin protection

Suitable protective clothing	Wear appropriate clothing to prevent repeated or prolonged skin contact.
Skin protection remark	When using do not eat, drink or smoke.

Respiratory protection

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	Solvent. Pungent.
Odour limit	Value: 0,1 ppm
Melting point / melting range	Value: -31 °C
Boiling point / boiling range	Value: 145 °C
Flash point	Value: 32 °C

Evaporation rate	Value: 0,49 Comments: (BuAc=1)
Lower explosion limit with unit of measurement	Value: 1,1 %
Upper explosion limit with units of measurement	Value: 6,1 %
Vapour pressure	Value: 670 Pa Temperature: 20 °C
Vapour density	Value: 3,6 Comments: (Luft=1)
Particle characteristics	Reason for waiving data: Not applicable
Density	Value: 0,906 g/cm³ Temperature: 20 °C
Bulk density	Value: 0,91
Solubility	Comments: Olöslig i vatten / Insoluble in water. Löslig i etanol och i aceton / Soluble in ethanol and in acetone.
Partition coefficient: n-octanol/ water	Value: 2,95 Temperature: 25 °C
Auto-ignition temperature	Value: 490 °C
Viscosity	Value: 0,773 mm2/s Type: Kinematic Value: 0,7 mPa.s Type: Dynamic
Explosive properties	N/A
Oxidising properties	Not relevant.

9.2. Other information

Physical hazards

Content of VOC	Value: 910 g/l

9.2.2. Other safety characteristics

Evaporation rate	0,49 (BuAc = 1)

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stability	Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Under normal storage and use hazardous reactions will not occur.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Materials to avoid	Avoid contact with oxidising agents.

10.6. Hazardous decomposition products

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

Acute toxicity	Type of toxicity: Acute Effect tested: LD50 Route of exposure: Oral Value: 5000 mg/kg Species: (rat) Type of toxicity: Acute Effect tested: LD50 Route of exposure: Dermal Value: > 2000 mg/kg Species: (rat) Type of toxicity: Acute Effect tested: LC50 Route of exposure: Inhalation. Duration: 4 h Value: 11,8 mg/l Species: (rat)

Other information regarding health hazards

General	Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.
Inhalation	Harmful if inhaled. 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.
Skin contact	Irritating to skin.
Eye contact	Causes serious eye irritation.

Assessment of skin corrosion / irritation, classification	Non Corrosive to skin.
Ingestion	Harmful if swallowed.
Sensitisation	Based on available data, the classification criteria are not met.
Mutagenicity	Inconclusive data.
Carcinogenicity, other information	Based on available data, the classification criteria are not met.
Teratogenic properties	May damage the unborn child. Suspected of damaging fertility
Assessment of specific target organ toxicity - repeated exposure, classification	Causes damage to organs of hearing through prolonged orrepeated exposure .

11.2 Other information

Endocrine disruption	No information available.

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity, fish	Value: 3,24 - 4,99 mg/L Test duration: 96 h Species: Pimephales promelas Method: LC50 Test reference: flow-through Comments: LC50 = 58,75-95,32 mg/L, Poecilia reticulata, 96 h, static.
Aquatic toxicity, algae	Value: 0,46 - 4,3 mg/L Test duration: 72 h Species: Pseudokirchneriella subcapitata Method: EC50
Aquatic toxicity, crustacean	Value: 3,3 - 7,4 mg/L Test duration: 48 h Species: Daphnia magna Method: EC50
Ecotoxicity	The product is harmful to aquatic organisms. The product may cause long-term adverse effects in the aquatic environment.

12.2. Persistence and degradability

Persistence and degradability description/evaluation	The product is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential	Bioaccumulation: Is not expected to be bioaccumulable. (BCF <500)
Bioconcentration factor (BCF)	Value: 35,5 Species: Fisk Comments: Log Pow 2,96

12.4. Mobility in soil

Mobility	The product contains organic solvents which will evaporate easily from all surfaces.
Surface tension	Value: 0,032 N/m Temperature: 19 °C

12.5. Results of PBT and vPvB assessment

PBT assessment results	Not Classified as PBT/vPvB by current EU criteria.

12.6. Endocrine disrupting properties

Endocrine disrupting properties	No information available.

12.7. Other adverse effects

Other adverse effects, comments	Not entered.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal	Dispose of waste and residues in accordance with local authority requirements.
Product classified as hazardous waste	Yes
Other information	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

ADR/RID/ADN	2055
IMDG	2055
ICAO/IATA	2055

14.2. UN proper shipping name

ADR/RID/ADN	STYRENE MONOMER, STABILIZED
IMDG	STYRENE MONOMER, STABILIZED
ICAO/IATA	STYRENE MONOMER, STABILIZED

14.3. Transport hazard class(es)

ADR/RID/ADN	3
IMDG	3
ICAO/IATA	3

14.4. Packing group

ADR/RID/ADN	III
IMDG	III
ICAO/IATA	III

14.5. Environmental hazards

IMDG Marine pollutant	Nej

14.6. Special precautions for user

14.7. Maritime transport in bulk according to IMO instruments

Transport in bulk (yes/no)	No

Additional information

Additional information	Classification code F1

ADR/RID Other information

Tunnel restriction code	D/E
Hazard No.	39

ADN Other information

Additional information ADN	386
Special provisions	VE01
Limited quantity	5 L
Excepted quantity	E1

IMDG Other information

EmS	F-E, S-D
Limited quantity	5 L
Excepted quantity	E1
Special provisions	TP1

ICAO/IATA Other information

ICAO / IATA Other Information	Packaging instructions 355; 356
Limited quantity	10 L
Special provisions	A209
Other transport, general	ERG-kod: 3 L

SECTION 15: Regulatory information

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

Assessed restrictions	None.
Restriction of chemicals according to Annex XVII (REACH)	None.
VOC	VOC percent by weight: 91
References (laws/regulations)	(EG) nr 1907/2006 (REACH). (EG) nr 1272/2008 (CLP). EH40/2005 (with changes)

15.2. Chemical safety assessment

Chemical safety assessment performed	Yes

SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)	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
Information added, deleted or revised	2023-03-25: * UFI, for voluntary registration in ECHA's Poison Centres, according to recommendations from the Swedish Poisons Information Centre (GIC). . 2022-12-13: * no changes in 3.2, * updated according to EU 2020/878.
Checking quality of information	This information is based on the information we knew at the time of preparation and they have been given in good faith and provided that the product is used under normal conditions and in accordance with the specified conditions of use. Any other use of the date indicated, eventually together with other products or processes, is at your own risk.
Version	17
Prepared by	Johan Thynell