SAFETY DATA SHEET

FIBERFIX Formgelcoat Svart _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	13.12.2022

1.1. Product identifier

Product name	FIBERFIX Formgelcoat Svart _EN
UFI	S5QN-KME8-EA92-5H5T
Synonyms	Mold cast gelcoat black
Article no.	59501

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

Use of the substance / mixture	Gelcoat
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 Skin Sens. 1; H317 Eye Irrit. 2; H319 Acute Tox. 4; H332 STOT RE 1; H372 Repr. 2; H361d Aquatic Chronic 3; H412 Flam. Liq. 3; H226
In compliance with ATP nr.	CLP14- 2020/217

2.2. Label elements

Hazard pictograms (CLP)

Composition on the label	Styren, Reaction products of 2,2"-[(1-methylethylid ene)bis(4,1-phenylen eoxymethylene)]bisoxi rane with maleic anhydride and methacrylic acid, Cobolt bis(2-ethylhexanoate)
Signal word	Danger
Hazard statements	H315 Causes skin irritation. H317 May cause an allergic skin reaction. 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 H412 Harmful to aquatic life with long lasting effects. H226 Flammable liquid and vapour.
Precautionary statements	P210 Keep away from heat / sparks / open flames / hot surfaces. – No smoking. P243 Take action to prevent static discharge. 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.
Other hazards	No information.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Composition type	Mixture

Substance	Identification	Classification	Contents	Notes
Styren	CAS No.: 100-42-5 EC No.: 202-851-5 Index No.: 601-026-00-0 REACH Reg. No.: 01-2119457861-32	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H332 Repr. 2; H361d STOT RE 1; H372	30 - 35 %	
Reaction products of 2, 2"-[(1-methylethylid ene) bis(4,1-phenylen eoxymethylene)] bisoxi rane with maleic anhydride and methacrylic acid	EC No.: 701-427-1 REACH Reg. No.: 01-2119925011-56- 0000	Skin Sens. 1B; H317	< 11 %	
Silica, amorphous, fumed, crystalline-free	CAS No.: 112945-52-5 EC No.: 231-545-4	CLP classification, notes: Not classified	< 4 %	

	REACH Reg. No.: 01-2119379499-16		
Bariumsulfat	CAS No.: 7727-43-7 EC No.: 231-784-4 REACH Reg. No.: 01-2119491274-35	CLP classification, notes: Inte klassificerad	< 1 %
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	CAS No.: 64742-82-1 EC No.: 919-446-0 REACH Reg. No.: 01-2119458049-33	Flam. Liq. 3; H226 Asp. Tox. 1; H304 STOT SE 3; H336 STOT RE 1; H372 Aquatic Chronic 2; H411 EUH 066	< 0,5 %
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate	CAS No.: 6846-50-0 EC No.: 229-934-9 REACH Reg. No.: 01-2119451093-47	Repr. 1B; H361d Aquatic Chronic 3; H412	< 0,5 %
Cobolt bis(2-ethylhexanoate)	CAS No.: 136-52-7 EC No.: 205-250-6 REACH Reg. No.: 01-2119524678-29	Skin Sens. 1A; H317 Eye Irrit. 2; H319 Repr. 1B; H360Fd Aquatic Acute 1; H400; M-factor M=1 Aquatic Chronic 3; H412	0,1 < 0,3 %
Triphenylphosphine	CAS No.: 603-35-0 EC No.: 210-036-0 REACH Reg. No.: 01-2119475464-32	Acute Tox. 4; H302 Skin Sens. 1B; H317 STOT RE 2; H373	0,1 < 1
Cyclohexanone	CAS No.: 108-94-1 EC No.: 203-631-1 Index No.: 606-010-00-7	Flam. Liq. 3; H226 Acute Tox. 4; H332	< 0,25 %

Substance comments The full text for all hazard statements is displayed in section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Provide rest, warmth and fresh air. If respiratory problems, artificial respiration/oxygen. Get medical attention.
Skin contact	Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. If skin irritation or rash occurs: Get medical advice/ attention.
Eye contact	Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention if any discomfort continues.
Ingestion	Do NOT induce vomiting. Never give liquid to an unconscious person. Get immediate medical advice/attention.
Recommended personal protective equipment for first aid responders	Use personal protective equipment as required.

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. May cause allergic skin reaction.

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.
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	Forms explosive mixtures with air. 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. Cool containers exposed to flames with water until well after the fire is out.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures	Do not smoke or use open fire, or other sources of ignition. Provide adequate ventilation. For personal protection, see section 8. Wash thoroughly after dealing with a spillage.
For emergency responders	Avoid breathing dust / fume / gas / mist / vapours / spray. Use personal protective equipment as required.

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	Absorb in vermiculite, dry sand or earth and place into containers. Keep combustibles away from spilled material. Remove sources of ignition. Beware of the explosion danger.

6.4. Reference to other sections

Other instructions	Se afsnit 8 og 12.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Static electricity and formation of sparks must be prevented. Risk of vapour concentration on the floor and in low-lying areas. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Flammable/combustible - Keep away from oxidisers, heat and flames. Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Avoid inhalation of vapours and spray mists. When using do not eat, drink or smoke.

Protective safety measures

Advice on general occupational hygiene	Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.

7.2. Conditions for safe storage, including any incompatibilities

Storage	Store in tightly closed original container in a dry, cool and well-ventilated place. Flammable liquid storage. Protect against direct sunlight. Store in closed original container at temperatures between 5°C and 30°C.
Conditions to avoid	Flammable/combustible - Keep away from oxidisers, heat and flames. Store isolated from reducing agents.

7.3. Specific end use(s)

Specific use(s)	The identified uses for this product are detailed in Section 1.2.

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/m³ **Limit value (short term)** Value: 250 ppm **Limit value (short term)** Value: 1080 mg/m³	TWA Year: 2011
Bariumsulfat	CAS No.: 7727-43-7	Country of origin: United Kingdom Limit value type: TWA Limit value (8 h) : 0,5 mg/m³ Comments: Barium compounds, soluble (as Ba)	

		Country of origin: United Kingdom Limit value type: TWA Limit value (8 h) : 4,0 mg/m³ Comments: respirable dust Country of origin: United Kingdom Limit value type: TWA Limit value (8 h) : 10 mg/m³ Comments: Inhalable dust	
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	CAS No.: 64742-82-1	Limit value type: TWA Limit value (8 h) : 500 mg/m³ Comments: Approximately, for White spirit, with 2-25% aromatics	
Cobolt bis(2-ethylhexanoate)	CAS No.: 136-52-7	Limit value (8 h) : 0,1 mg/m³ **Exposure limit letter** Letter description: Carc (cobalt dichloride and sulphate) , Sen.	TWA Year: 2005
Cyclohexanone	CAS No.: 108-94-1	Limit value (8 h) : 10 ppm Limit value (8 h) : 41 mg/m³ **Limit value (short term)** Value: 20 ppm **Limit value (short term)** Value: 82 mg/m³ **Exposure limit letter** Letter code: Sk; BEI	

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
Substance	Cobolt bis(2-ethylhexanoate)
DNEL	**Group:** Consumer **Route of exposure:** Long-term oral (systemic) **Value:** 55,8 µg/kg bw/day **Group:** Industrial **Route of exposure:** Long-term inhalation (local) **Value:** 235 µg/m³ **Group:** Consumer **Route of exposure:** Long-term inhalation (local) **Value:** 37 µg/m³
PNEC	**Route of exposure:** Freshwater **Value:** 0,51 µg/l **Reference:** (information refers to Cobalt) **Route of exposure:** Saltwater **Value:** 2,36 µg/l **Reference:** (information refers to Cobalt) **Route of exposure:** Sediment **Value:** 9,5 mg/kg

Reference: (information refers to Cobalt)

Route of exposure: Soil
Value: 7,9 mg/kg
Reference: (information refers to Cobalt)

Route of exposure: Sewage treatment plant STP
Value: 0,37 mg/l
Reference: (information refers to Cobalt)

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 splash-proof eye goggles to prevent any possibility of eye contact.
Eye protection, comments	Do not wear contact lenses.

Hand protection

Hand protection	Neopren , Nitriler , Viton (R) eller polyvinyl alcohol. 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 fire / flame resistant / retardant clothing. Anti-static boots.

Respiratory protection

Respiratory protection	At work in confined or poorly ventilated spaces, respiratory protection with air supply must be used. Wear respiratory protection with combination filter (dust and gas filter).

Hygiene / environmental

Specific hygiene measures	When using do not eat, drink or smoke.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Coloured liquid.
Colour	Black.

Odour	Solvent. Pungent.
Odour limit	Value: 0,15 ppm Test reference: (styren)
pH	Comments: No data recorded.
Melting point / melting range	Value: -30 °C Method: (styren)
Boiling point / boiling range	Value: 145 °C Test reference: (styren)
Flash point	Value: 31 °C Method: closed cup Test reference: styren
Evaporation rate	Value: 0,49 Test reference: (BuAc = 1) (Styren)
Lower explosion limit with unit of measurement	Value: 1,1 % Test reference: (styren)
Upper explosion limit with units of measurement	Value: 6,1 % Test reference: (styren)
Vapour pressure	Value: 6,7 hPa Test reference: (styren) Temperature: 20 °C
Vapour density	Value: 3,6 hPa Test reference: (styren) Reference gas: (Luft = 1)
Relative density	Value: 1,09 - 1,13 Method: 23 °C
Solubility description	Insoluble in water.
Partition coefficient: n-octanol/ water	Comments: No information.
Auto-ignition temperature	Value: 490 °C Method: (styren)
Decomposition temperature	Comments: No information.
Viscosity	Value: 18000 - 20000 mPas Temperature: 23 °C Type: Dynamic Value: 16514 -18349 mm2/s Temperature: 23 °C Type: Kinematic

9.2. Other information

9.2.2. Other safety characteristics

Comments	No information.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Heating may cause a fire.

10.2. Chemical stability

Stability	Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	In use, flammable/explosive vapor-air mixtures may form. Polymerization can occur, generating heat.

10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition. Take precautionary measures against static discharge.

10.5. Incompatible materials

Materials to avoid	Avoid contact with oxidising agents (e.g. nitric acid, peroxides and chromates). Strong reducing 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

Other information regarding health hazards

Oral	LD50 = 5000 mg/kg (Rat) (avser styren) 9664 mg/kg (ATEmix value)
Dermal	LD50 > 2000 mg/kg (Rat) (avser styren) 3868 mg/kg (ATEmix value)
Inhalation of vapor	LC50 = 11.8 mg/l (4h) (Rat) (avser styren) 22.8 mg/l (ATEmix value)
Skin contact	Irritating. May cause sensitisation by skin contact. Acts as a defatting agent on skin. May cause cracking of skin, and eczema.
Eye contact	Irritating.
Ingestion	Ingestion may cause irritation of the gastrointestinal tract, vomiting and diarrhoea. Harmful: possible risk of irreversible effects if swallowed.
Acute toxicity, mixture estimate	Dose: ATEmix calculated Route of exposure: Oral Value: 3918 mg/kg Dose: ATEmix calculated

	Route of exposure: Dermal Value: 2214 mg/kg Dose: ATEmix calculated Route of exposure: Inhalation (vapour) Value: 17,5 mg/l
Assessment of skin corrosion / irritation, classification	Not relevant.
Irritation	Causes skin irritation.
Eye damage or irritation, human experience	Irritating.
Respiratory sensitisation other information	Vapours irritate the respiratory system, and may cause coughing and difficulties in breathing.
Inhalation	Dangerous by inhalation.
Ingestion	Harmful if swallowed.
Sensitisation	May cause an allergic skin reaction.
Mutagenicity	Inconclusive data.
Assessment of germ cell mutagenicity, classification	Inconclusive data.
Assessment of carcinogenicity, classification	Inconclusive data.
Teratogenic properties	Suspected of damaging the unborn child
Assessment of reproductive toxicity, classification	Inconclusive data.
Assessment of specific target organ toxicity - single exposure, classification	May irritate the respiratory system
Assessment of specific target organ toxicity - repeated exposure, classification	Causes organ damage through prolonged or repeated exposure; on central nervous system and ears.
Assessment of aspiration hazard, classification	The product has no risk of aspiration, depending on its viscosity

11.2 Other information

Endocrine disruption	No information available.
Other information	No information.

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity, fish	Value: 3,24 - 4,99 mg/L Test duration: 96h Species: Pimephales promelas Method: LC50 Test reference: flow-through (styren) Comments: LC50 = 58,75-95,32 mg/L, Poecilia reticulata, 96 h, static (styren).

Aquatic toxicity, algae	Value: 0,46 - 4,3 mg/L Test duration: 72h Species: Pseudokirchneriella subcapitata Method: EC50 Test reference: (styren) Comments: EC50 = 0.639 mg/L (Kobolt bis (2-etylhexanoat)
Aquatic toxicity, crustacean	Value: 3,3 - 7,4 mg/L Test duration: 48h Species: Daphnia magna Method: EC50 Test reference: (styren)
Ecotoxicity	The product is harmful to aquatic organisms. The product may cause long-term adverse effects in the aquatic environment. Do not flush into surface water or sewage system.

12.2. Persistence and degradability

Persistence and degradability description/evaluation	The product is not readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential	Bioaccumulation: Is not expected to be bioaccumulable.
Bioconcentration factor (BCF)	Value: 74 Comments: Log Kow 2,95

12.4. Mobility in soil

Mobility	LogKoc: 2,55 (Styren)

12.5. Results of PBT and vPvB assessment

PBT assessment results	This product does not contain any PBT or vPvB substances.

12.6. Endocrine disrupting properties

Endocrine disrupting properties	No information available.

12.7. Other adverse effects

Other adverse effects, comments	No information.

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

Dangerous goods	Yes

14.1. UN number

ADR/RID/ADN	1866
IMDG	1866
ICAO/IATA	1866
Comments	ADR/RID Exception: This material meets the viscosity criteria specified in ADR/RID 2.2.3.1.5 and may be classed as "not dangerous" when packaged in containers of less than 450 litres. IMDG Exception: This material meets the viscosity criteria specified in IMDG Code 2.3.2.5 and may be exempt from the marking, labelling and package testing requirements if transported in containers of 450 litres or less.

14.2. UN proper shipping name

ADR/RID/ADN	RESIN SOLUTION
IMDG	RESIN SOLUTION
ICAO/IATA	RESIN SOLUTION

14.3. Transport hazard class(es)

ADR/RID/ADN	3
Classificaton code ADR/RID/ADN	F1
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	No

14.6. Special precautions for user

Special safety precautions for user	No data recorded.

14.7. Maritime transport in bulk according to IMO instruments

Transport in bulk (yes/no)	No

ADR/RID Other information

Tunnel restriction code	D/E
Limited quantity	5 L
Hazard No.	30

ADN Other information

Additional information ADN	VE01
Limited quantity	5 L

IMDG Other information

EmS	F-E, S-E
Limited quantity	5 L

ICAO/IATA Other information

Limited quantity	10 L
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

Restriction of chemicals according to Annex XVII (REACH)	Column 1, No. 3, Column 1, No. 40.
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
Exposure scenario comments	Exposure scenario as an appendix to the safety data sheet.

SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)	EUH 066 Repeated exposure may cause skin dryness or cracking. H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H336 May cause drowsiness or dizziness. H360Fd May damage fertility. Suspected of damaging the unborn child. H361d Suspected of damaging the unborn child. H372 Causes damage to organs through prolonged or repeated exposure

	H373 May cause damage to organs through prolonged or repeated exposure H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.
Information added, deleted or revised	2022-12-13: * changed substances in 3.2, * changes P-frases, * 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	12