SAFETY DATA SHEET

FIBERFIX Polyesterplast _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 Polyesterplast _EN

UFI S73T-MFN7-A99U-NFTK

Synonyms Polyester resin

Article no. 100101

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

Use of the substance / mixture Polyester resin.

Industrial use Yes Professional use

Consumer use Yes

1.3. Details of the supplier of the safety data sheet

Yes

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 SE 3; H335

Repr. 2; H361d

STOT RE 1; H372

Aquatic Chronic 3; H412

Flam. Liq. 3; H226

In compliance with ATP nr. CLP14- 2020/217

CLP classification, comments Blandning

2.2. Label elements

Hazard pictograms (CLP)







Composition on the label

Styren, Phthalic anhydride, Maleic anhydride, 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.

H335 May cause respiratory irritation.

H361d Suspected of damaging the unborn child.

H372 Causes damage to organs of hearing 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, hot surfaces, sparks, open flames and other ignition

sources. 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.

 ${\sf P309+P311}$ 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

Composition type	Mixture			
Substance	Identification	Classification	Contents N	Vote
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	40 - 50 %	
Hydrocarbons, C4-, 1, 3-butadiene-free, polymerized, triisobutylene fraction, hydrogenated	CAS No.: 93685-81-5 EC No.: 297-629-8	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Aquatic Chronic 4; H413	0,5 - 1,5 %	
Phthalic anhydride	CAS No.: 85-44-9 EC No.: 201-607-5 Index No.: 607-009-00-4	Acute tox. 4; H302; STOT SE 3; H335; Skin Irrit. 2; H315; Eye Dam. 1; H318; Resp. Sens. 1; H334; Skin Sens. 1; H317;	≤ 0,3 %	
Silica, amorphous, fumed, crystalline-free	CAS No.: 112945-52-5 EC No.: 231-545-4 REACH Reg. No.: 01-2119379499-16	CLP classification, notes: Not classified	> 0,1 %	
Ethanediol	CAS No.: 107-21-1 EC No.: 203-473-3 Index No.: 603-027-00-1	Acute tox. 4; H302;	≤ 0,1 %	
Maleic anhydride	CAS No.: 108-31-6 EC No.: 203-571-6 Index No.: 607-096-00-9	Acute Tox. 4; H302 STOT RE 1; H372 Skin Corr. 1B; H314 Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1A; H317	≤ 0,1 %	
(2-methoxymethylethoxy) propanol	CAS No.: 34590-94-8 EC No.: 252-104-2	CLP classification, notes: Not classified	≤ 0,1 %	
1-Methoxy-2-propanol	CAS No.: 107-98-2 EC No.: 203-539-1 Index No.: 603-064-00-3	Flam. Liq. 3; H226; STOT SE 3; H336;	≤ 0,1 %	
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;	0,01 < 0,1 %	

M-factor M=1 Aquatic Chronic 3; H412

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.

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. Rinse cautiously with water for several minutes.

Get medical attention promptly if symptoms occur after washing.

Eye contact Immediately flush with plenty of water or eyewash solution for up to 10 minutes.

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

Get medical attention immediately. Continue to rinse.

Ingestion IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

If breathing is difficult, remove victim to fresh air and keep at rest in a position

comfortable for breathing.

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 Causes serious eye irritation.

Harmful if inhaled. Harmful if swallowed.

May cause an allergic skin reaction.

Delayed symptoms and effects Suspected of damaging the unborn child.

Causes damage to organs of hearing through prolonged or repeated exposure.

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 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.

Hazardous combustion products Carbon dioxide (CO2). Carbon monoxide (CO).

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

For personal protection, see section 8.

Avoid breathing dust / fume / gas / mist / vapours / spray. Do not smoke or use open fire, or other sources of ignition.

Provide adequate ventilation.

Evacuate area.

6.2. Environmental precautions

Environmental precautionary

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

measures

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

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

Keep combustibles away from spilled material.

Other information Remove sources of ignition. Beware of the explosion danger.

6.4. Reference to other sections

Other instructions Se also section 7, 8 & 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling Ground container and transfer equipment to eliminate static electric sparks.

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.

Do not use in confined spaces without adequate ventilation and/or respirator.

Avoid eating, drinking and smoking when using the product.

Protective safety measures

Advice on general occupational

Private clothes and working clothes should be kept separately.

hygiene

7.2. Conditions for safe storage, including any incompatibilities

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

Store in a well-ventilated place.

Keep away from heat, sparks and open flame.

Conditions to avoid

Avoid contact with oxidising agents. Store isolated from reducing agents.

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/ m³ Limit value (short term) Value: 250 ppm Limit value (short term) Value: 1080 mg/m³	TWA Year: 2011
Phthalic anhydride	CAS No.: 85-44-9	Limit value (8 h): 4 mg/m³ Limit value (short term) Value: 12 mg/m³ Exposure limit letter Letter code: Sen	
Maleic anhydride	CAS No.: 108-31-6	Limit value (8 h): 1 mg/m³ Limit value (short term) Value: 3 mg/m³ Exposure limit letter Letter code: Sen	
(2-methoxymethylethoxy) propanol	CAS No.: 34590-94-8	Limit value (8 h): 50 ppm Exposure limit letter Letter code: Sk	
1-Methoxy-2-propanol	CAS No.: 107-98-2	Limit value (8 h): 100 ppm Limit value (8 h): 375 mg/ m³ Limit value (short term) Value: 150 ppm Limit value (short term) Value: 560 mg/m³ Exposure limit letter Letter code: Sk	
Cobolt bis(2-ethylhexanoate)	CAS No.: 136-52-7	Limit value (8 h): 0,1 mg/ m³ Exposure limit letter	TWA Year: 2005

DNEL / PNEC

DNEL

Group: Professional

Route of exposure: Long-term inhalation (systemic)

Letter description: Carc (cobalt dichloride and sulphate), Sen.

Value: 0,4 mg/m³

Reference: Maleinsyranhydrid

PNEC Route of exposure: Freshwater

Value: 0,04281 mg/l

Reference: Maleinsyraanhydrid

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

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

PNEC

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

Safety signs









Precautionary measures to prevent exposure

Appropriate engineering controls

Provide adequate ventilation. Observe occupational exposure limits and minimize the risk of inhalation of dust.

Explosion-proof general and local exhaust ventilation.

Provide eyewash, quick drench.

Eye / face protection

Suitable eye protection Wear approved, tight fitting safety glasses where splashing is probable.

Eye protection, comments Do not wear contact lenses.

Hand protection

Hand protection Wear protective gloves.

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 Anti-static boots.

Respiratory protection

Respiratory protection At work in confined or poorly ventilated spaces, respiratory protection with air

supply must be used.

Appropriate environmental exposure control

Environmental exposure controls See also section 6.2.

Appropriate environmental exposure control

Safety measures for consumer use of the chemical

If medical advice is needed, have product container or label at hand.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid.

Colour Blue.

Colour intensity Translucent.

Odour Solvent.

Odour limit Value: 0,15 ppm

Test reference: Styren

Flash point Value: 31 °C

Method: closed cup

Vapour pressure Value: 6,7 hPa

Test reference: Styren Temperature: 20 °C

Vapour density Value: 1.08 - 1.12 g/cm³

Relative density Value: 1,10 - 1,20

Solubility Medium: Water

Comments: Insoluble in water.

Partition coefficient: n-octanol/

· Value.

water Test reference: Styren

Auto-ignition temperature Value: 490 °C

Test reference: Styren

Viscosity Value: > 0,4 cm2/s

Temperature: 40 °C

Value: 1100 - 1300 mPa.s Temperature: 23 °C

9.2. Other information

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.

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.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

Keep cool. Protect from sunlight.

Take precautionary measures against static discharge.

10.5. Incompatible materials

Materials to avoid Avoid contact with oxidising agents.

Strong reducing agents. Inorganic peroxides.

Organic peroxides/hydroperoxides.

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: 2650 mg/kg Species: Rat Comments: Styren

Type of toxicity: Acute Effect tested: LD50

Route of exposure: Oral Value: 1530 mg/kg Species: Rat

Comments: Ftalsyraanhydrid

Type of toxicity: Acute Effect tested: LC50

Route of exposure: Inhalation.

Duration: 4 h Value: 2770 ppm Species: Rat

Comments: Styren (vapor)

Type of toxicity: Acute Effect tested: LC50

Route of exposure: Inhalation.

Duration: 4 h Value: 11800 mg/m3 Species: Rat

Comments: Styren (vapor)

Effect tested: LD50 Route of exposure: Oral Method: OECD 425 Value: 3129 mg/kg Species: Rat

Comments: kobaltoktoat, CAS-nr 136-52-7

Other information regarding health hazards

Inhalation of vapor 6939,5 ppm (ATE-value, gas)

29,56 mg/l (ATE-value, vapor))

Inhalation Harmful if inhaled.

Skin contact Irritating to skin.

May cause an allergic skin reaction.

Eye contact Causes serious eye irritation.

Ingestion Harmful if swallowed.

Irritation Styren

Skin - slightly irritating (rabbit), 500 mg. Skin - moderately irritating (rabbit), 100%.

Eye irritation Styrene:

Eyes - slightly irritant (human) 50 ppm.

Eyes - moderately irritating (rabbit), 24 h, 100 mg.

Eyes - Severe irritant (rabbit), 100 mg.

Respiratory sensitisation, human

experience

May cause allergic contact eczema.

Sensitisation Phthalic anhydride: allergenic (guinea pig)

Chronic effects Styrene:

Chronic dermal NOAEL (rat) 615 mg / kg.

Chronic NOAEL Inhalation Gas (rat) 20 ppm.

Pphthalic anhydride:

Chronic Oral NOAEL (rat) of 500 mg / kg.

Mutagenicity Phthalic anhydride: negative, OECD 479 Genetic Toxicology (mammals).

Assessment of germ cell mutagenicity, classification

Inconclusive data.

Carcinogenicity, other information Not entered.

Assessment of carcinogenicity,

classification

Inconclusive data.

Reproductive toxicity Suspected of damaging fertility. Suspected of damaging the unborn child

Assessment of reproductive toxicity, classification

Known or suspected teratogen.

Irritation to respiratory tract Human experience: May cause irritation to the respiratory system.

Assessment of specific target organ toxicity - repeated exposure, classification

prolonged orrepeated exposure .

Causes damage to organs on the central nervous system and the ears through

Symptoms of exposure

In case of ingestion However, ingestion may cause nausea, stomach pain and vomiting.

In case of skin contact

Skin irritation.

Allergic rash.

In case of inhalation General respiratory distress, unproductive cough.

In case of eye contact Irritation of eyes and mucous membranes.

11.2 Other information

Endocrine disruption No information available.

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity, fish Value: 4020 μg/l

Test duration: 96 h

Species: Pimephales promelas

Method: LC50

Test reference: Styren (sötvatten)

Aquatic toxicity, algae Value: 33 mg/l

Test duration: 96 h

Species: Pseudokirchneriella subcapitata

Method: EC50

Test reference: Styren (sötvatten)

Acute aquatic, algae LCLo Value: > 100 mg/l

Test duration: 72 h Species: Alger Method: Akut NOEC Test reference: Ftalsyraanhydrid

Aquatic toxicity, crustacean Value: 1,01 mg/l

> Test duration: 21 days Species: Daphnia Method: Kronisk NOEC Test reference: Styren

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 components of the product are easily degradable

12.3. Bioaccumulative potential

Bioaccumulative potential Low: Styrene (BCF: 13.39).

Low: Phthalic anhydride (BCF: 3.4).

12.4. Mobility in soil

Mobility LogKoc: 2,55 (Styren)

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

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

None known.

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. Make sure containers are empty before discarding (explosion risk).

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

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

IMDG 3

ICAO/IATA 3

14.4. Packing group

ADR/RID/ADN III

IMDG III

ICAO/IATA III

14.5. Environmental hazards

ADR/RID/ADN No

ADN No

IMDG No

IMDG Marine pollutant No

ICAO/IATA No

14.6. Special precautions for user

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

Special provisions 640E

Hazard No. 30

ADN Other information

Special provisions 640E

IMDG Other information

Additional information IMDG F-E, _S-E_

Special provisions

223, 955

ICAO/IATA Other information

Limited quantity Passenger and cargo aircraft: 60 L.

А3

Packaging instructions: 355. Cargo aircraft only: 220 L. Packaging instructions: 366.

Limited quantities - Passenger aircraft: 10 L.

Packaging instructions: Y344.

Special provisions

SECTION 15: Regulatory information

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

EEC-directive Seveso II Directive: cateogry P5c

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

This product contains substances for which chemical safety assessment has not yet been made.

SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways. H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation. 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

H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects. H413 May cause long lasting harmful effects to aquatic life.

2022-12-13:

revised

Information added, deleted or

*changed substances in 3.2,

* changed H-phrases and P-phrases,

* updated according to EU 2020/878.

Checking quality of 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, possibly together with other products or processes, is at the user's own risk.

Version

18