

# SAFETY DATA SHEET

Version number:	14
Issued:	2024-06-05
Replaces SDS:	2022-12-13

According to Regulation (EC) No 1907/2006

## FIBERFIX Epoxihärdare 43 Medium

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

#### 1.1. Product identifier

**Trade name**

FIBERFIX Epoxihärdare 43 Medium

**Article No.**

2101

**UFI code**

2EP1-R6W2-X99T-421X

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

**Relevant identified uses**

Hardener for epoxy resin.

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

**Available outside office hours**

Yes

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### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

##### Classification

Acute toxicity, oral, hazard category 4  
Skin corrosion, hazard category 1A  
Skin sensitisation, hazard category 1, sub-category 1A  
Hazardous to the aquatic environment — Chronic hazard category 3  
Reproductive toxicity, hazard category 2

##### Hazard statements

H302, H314, H317, H361d, H412

#### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

##### Hazard pictograms



##### Signal word

Danger

##### Hazard statements

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H361d Suspected of damaging the unborn child.  
H412 Harmful to aquatic life with long lasting effects.

##### Supplemental hazard statements

EUH208 Contains epoxy constituents. May produce an allergic reaction.. May produce an allergic reaction.

##### Precautionary statements

P260 Do not breathe dust / fume / gas / mist / vapours / spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 IF exposed or concerned: Get medical advice/attention.  
P501 Dispose of contents/container to approved waste receiver.

##### More information

Contains: Reaction products of di-, tri-, and tetra-propoxylated propane-1,2-diol with ammonia , m-phenylenebis(methylamine) , 1,6-Hexanediamine, 2,2,4(or 2,4,4)-trimethyl-, Triethanolamine , 2-Piperazin-1-ylethylamine , ethylenediamine

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2.3. Other hazards

This product does not contain any PBT or vPvB substances.  
Contains no substances which cause hormonal disorders (endocrine disorders), according to criteria in (EU) 2017/2100 and (EU) 2018/605.

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	Note
Reaction products of di-, tri-, and tetra-propoxylated propane-1,2-diol with ammonia	9046-10-0 695-873-3 - -	30 - 50%	Acute Tox. 4 - oral, Acute Tox. 4 - dermal, Skin Corr. 1B, Eye Dam. 1, Aquatic Chronic 3	H302, H312, H314, H318, H412 - -	-
Phenol, styrenated	61788-44-1 262-975-0 - -	10 - 20%	Aquatic Chronic 2	H411 - -	-
m-phenylenebis(methylamine)	1477-55-0 - - -	5 - 15%	Acute Tox. 4 - oral, Skin Corr. 1B, Skin Sens. 1, Acute Tox. 3 - inhalation, Aquatic Chronic 3	H302, H314, H317, H331, H412 - -	-
1,6-Hexanediamine, 2,2,4(or 2, 4,4) -trimethyl-	25513-64-8 247-063-2 - -	5 - 15%	Acute Tox. 4 - oral, Skin Corr. 1A, Skin Sens. 1A, Aquatic Chronic 3	H302, H314, H317, H412 - -	-
Phenol, methylstyrenated	68512-30-1 270-966-8 - -	5 - 15%	Skin Irrit. 2, Skin Sens. 1B, Aquatic Chronic 3	H315, H317, H412 - -	-
Salicylic acid	69-72-7 200-712-3 - 607-732-00-5	≤5%	Acute Tox. 4 - oral, Eye Dam. 1, Repr. 2	H302, H318, H361d - -	-
Triethanolamine	102-71-6 - - -	≤2%	-	- - -	H, V
2-piperazin-1-ylethylamine	140-31-8	≤1%	Acute Tox. 4 -	H302, H312,	-

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Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
	205-411-0 01-2119471486-30 612-105-00-4		oral, Acute Tox. 4 - dermal, Skin Corr. 1B, Skin Sens. 1, Aquatic Chronic 3	H314, H317, H412 - -	
ethylenediamine; 1,2-diaminoethane	107-15-3 203-468-6 01-2119480383-37 612-006-00-6	≤1%	Flam. Liq. 3, Acute Tox. 4 - oral, Acute Tox. 4 - dermal, Skin Corr. 1B, Skin Sens. 1, Resp. Sens. 1	H226, H302, H312, H314, H317, H334 - -	-

**Substance additional information**

Ethylenediamine is a candidate substance (SVHC list).

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

**SECTION 4: First aid measures****4.1. Description of first aid measures**

Contact physician if discomfort continues.

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS!

**Inhalation**

Remove victim immediately from source of exposure.

Get medical attention.

Be aware that symptoms of lung oedema (shortness of breath) may develop up to 24 hours after exposure. Immediately call an ambulance.

**Skin contact**

Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water.

Get medical attention.

**Eye contact**

Promptly wash eyes with plenty of water while lifting the eye lids. Important! Immediately rinse with water for 15-30 minutes.

Immediately call a POISON CENTER/doctor. Continue flushing during transport to hospital.

**Ingestion**

DO NOT induce vomiting. Get medical attention immediately.

Immediately call a POISON CENTER/doctor.

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

Harmful if swallowed or if inhaled.  
Causes serious eye damage.  
Highly Corrosive. May cause an allergic skin reaction.

### 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.

#### 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

When heated and in case of fire, toxic vapours/gases may be formed.

### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighters

Use air-supplied respirator, gloves and protective goggles.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid breathing dust/fume/gas/mist/vapours/spray.  
Avoid contact with skin and eyes.  
Wear protective clothing as described in Section 8 of this safety data sheet.

### 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

Absorb in vermiculite, dry sand or earth and place into containers.  
For waste disposal, see section 13.

### 6.4. Reference to other sections

See section 7.  
For personal protection, see section 8.  
For waste disposal, see section 13.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Preventive handling precautions

Avoid inhalation of vapours/spray and contact with skin and eyes.  
Immediately change contaminated clothes.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store in closed original container in a dry place.  
Store at room temperature.  
Protect from heat and direct sunlight.  
Protect from moisture.  
Store locked up.

#### 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

No data available

#### 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.

##### Personal Protective Equipment Symbols



##### Eye / face protection

Wear tight-fitting goggles or face shield.

##### 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.

##### Other skin protection

Wear suitable protective clothing as protection against splashing or contamination.

##### Respiratory protection

Chemical respirator with organic vapour cartridge.  
In case of inadequate ventilation use suitable respirator.  
Respiratory protection must be used if air contamination exceeds acceptable level.

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### Thermal hazards

Not entered.

### Environmental exposure controls

See section 6.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Physical state

Liquid

#### Colour

Brown.

#### Odour

Amine.

#### Melting point / freezing point

No data available

#### Boiling point or initial boiling point and boiling range

232 °C

#### Flammability

No data available

#### Lower and upper explosion limit

No data available

#### Flash point

No data available

#### Auto-ignition temperature

No data available

#### Decomposition temperature

No data available

#### pH

11

#### Kinematic viscosity

No data available

#### Solubility

No data available

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### Partition coefficient n-octanol/water

No data available

### Vapour pressure

4 hPa

### Density and/or relative density

No data available

### Relative density

1 g/cm<sup>3</sup>

### Relative vapour density

No data available

### Particle characteristics

No data available

## 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

### 10.3. Possibility of hazardous reactions

No information available.

### 10.4. Conditions to avoid

Keep cool. Protect from sunlight. Avoid heat, flames and other sources of ignition.

Avoid frost.

### 10.5. Incompatible materials

Strong oxidising substances, strong acids and strong bases.

### 10.6. Hazardous decomposition products

None at ambient temperatures.

During fire, toxic gases (CO, CO<sub>2</sub>) are formed.



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### SECTION 11: Toxicological information

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

##### **Acute toxicity**

Harmful if swallowed.

##### **Skin corrosion/irritation**

Causes severe skin burns.

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

Causes serious eye damage.

##### **Respiratory or skin sensitisation**

May cause an allergic skin reaction.

##### **Germ cell mutagenicity**

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

##### **Carcinogenicity**

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

##### **Reproductive toxicity**

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

##### **STOT-single exposure**

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

##### **STOT-repeated exposure**

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

##### **Aspiration hazard**

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

##### **Toxicity in case of inhalation**

Harmful if inhaled. Pulmonary sensitiser.

##### **Toxicity in case of skin contact**

Corrosive. Prolonged contact causes serious tissue damage.

##### **Toxicity in case of eye contact**

Corrosive. Immediate first aid is necessary.

##### **Toxicity in case of ingestion**

May cause chemical burns in mouth, oesophagus and stomach.

#### 11.2. Information on other hazards

##### **Endocrine disrupting properties**

Contains no substances which cause hormonal disorders (endocrine disorders), according to criteria in (EU) 2017/2100 and (EU) 2018/605.

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### SECTION 12: Ecological information

#### 12.1. Toxicity

##### Toxicity

Harmful to aquatic life with long lasting effects.

#### 12.2. Persistence and degradability

No data available

#### 12.3. Bioaccumulative potential

No data available

#### 12.4. Mobility in soil

No data available

#### 12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

#### 12.6. Endocrine disrupting properties

Contains no substances which cause hormonal disorders (endocrine disorders), according to criteria in (EU) 2017/2100 and (EU) 2018/605.

#### 12.7. Other adverse effects

##### Other adverse effects

None.

### 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.

### SECTION 14: Transport information

#### 14.1. UN number

2735

#### 14.2. UN proper shipping name

##### ADR / RID / ADN proper shipping name

AMINES, LIQUID, CORROSIVE, N.O.S.

##### IMDG proper shipping name

AMINES, LIQUID, CORROSIVE, N.O.S.

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### IATA proper shipping name

Amines, liquid, corrosive, n.o.s.

### 14.3. Transport hazard class(es)

#### Label

ADR/RID/ADN



8

IMDG



8

IATA



8

### ADR / RID Class

8

### ADR / RID Classification code

C7

### ADR / RID hazard identification number

80

### IMDG Class

8

### IATA Class

8

### ADN Class

8

### ADN Class Code

C7

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### 14.4. Packing group

ADR / RID / ADN: III

IMDG: III

IATA: III

### 14.5. Environmental hazards

#### Environmental hazards

Harmful to aquatic life with long lasting effects.

### 14.6. Special precautions for user

#### Special precautions for user

Tunnel restriction code: E

Transport category: 3

#### IMDG EmS

F-A, S-B

### 14.7. Maritime transport in bulk according to IMO instruments

No.

### Other

#### Additional information IMDG

MFAG: 320

#### Additional information IATA (ICAO)

Packaging instruction 852 and 856

## 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.

#### National regulations

No data available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

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### SECTION 16: Other information

#### **Changes to previous revision**

2024-06-05 EUG208, H361D

#### **Phrase meaning**

Repr. 2 - Reproductive toxicity, hazard category 2

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

Skin Corr. 1A - Skin corrosion, hazard category 1A

Skin Sens. 1A - Skin sensitisation, hazard category 1, sub-category 1A

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

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

Skin Corr. 1B - Skin corrosion, hazard category 1B

Eye Dam. 1 - Serious eye damage, hazard category 1

Aquatic Chronic 2 - Hazardous to the aquatic environment — Chronic hazard category 2

Skin Sens. 1 - Skin sensitisation, hazard category 1

Acute Tox. 3 - inhalation - Acute toxicity, inhalation, hazard category 3

Skin Irrit. 2 - Skin irritation, hazard category 2

Skin Sens. 1B - Skin sensitisation, hazard category 1, sub-category 1B

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

Resp. Sens. 1 - Respiratory sensitisation, hazard category 1

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H331 Toxic if inhaled.

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

H361d Suspected of damaging the unborn child.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

EUH208 Contains epoxy constituents. May produce an allergic reaction.. May produce an allergic reaction.