

## SAFETY DATA SHEET

## FIBERFIX Repair Kit part B (Härdare) \_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 09.05.2016

Revision date 13.12.2022

**1.1. Product identifier**

Product name FIBERFIX Repair Kit part B (Härdare) \_EN

UFI VH60-CHSU-NE9R-SEWV

Synonyms Repair Kit part B (Hardener)

Article no. 9008xx, 9012

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

Use of the substance / mixture Hardener for polyester resin  
Use together with Part A (polyester).

Uses advised against -

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](mailto:info@fargin.se)

Website [www.fargin.se](http://www.fargin.se)

Enterprise No. SE-556187-9387

Contact person Johan Thynell

## 1.4. Emergency telephone number

Emergency telephone Telephone number: See National Telephone 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]

Org. Perox. D; H242  
Acute Tox. 4; H302  
Acute Tox. 4; H332  
Skin Corr. 1B; H314  
Eye Dam. 1; H318

In compliance with ATP nr. CLP14- 2020/217

### 2.2. Label elements

#### Hazard pictograms (CLP)



Composition on the label Methyl ethyl ketone peroxides (MEKP), Butanone

Signal word Danger

Hazard statements  
H242 Heating may cause a fire.  
H302 + H332 Harmful if swallowed or if inhaled.  
H314 Causes severe skin burns and eye damage.

Precautionary statements  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P234 Keep only in original packaging.  
P280 Wear protective gloves / protective clothing / eye protection / face protection.  
P308+P313 IF exposed or concerned: Get medical advice / attention.  
P370+P378 In case of fire: Use foam, powder or carbon dioxide to extinguish.  
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 in levels of 0.1% or higher.

## SECTION 3: Composition / information on ingredients

## 3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Methyl ethyl ketone peroxides (MEKP)	CAS No.: 1338-23-4	Org. Perox. A; H240	30 - 37 %	
	EC No.: 215-661-2	Acute Tox. 4; H302		
	REACH Reg. No.: 01-2119514691-43	Acute Tox. 4; H332		
		Skin Corr. 1B; H314		
		Eye Dam. 1; H318		
Butanone	CAS No.: 78-93-3	Flam. Liq. 2; H225	1 - -3 %	
	EC No.: 201-159-0	Eye Irrit. 2; H319		
	Index No.: 606-002-00-3	STOT SE 3; H336		
Substance comments	Metyletylketonperoxid = 2-butanon-peroxid Butanon = Metyl ethyl ketone			

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General	Get medical attention immediately! Remove affected person from source of contamination. Show this safety data sheet to the doctor on duty.
Inhalation	Move the exposed person to fresh air at once. 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. Continue to rinse for at least 15 minutes and seek medical attention.
Eye contact	Rinse the eye with water immediately. Immediately transport to hospital or eye specialist. Continue flushing during transport to hospital. Remove contact lenses, if present and easy to do. Continue rinsing. May cause permanent damage if eye is not immediately irrigated.
Ingestion	Immediately rinse mouth and drink plenty of water. Call an ambulance. Bring along these instructions. Do not give victim anything to drink if he is unconscious. Do NOT induce vomiting.

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

Acute symptoms and effects	Harmful if swallowed or inhaled. Causes serious eye damage. Strongly corrosive.
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### 4.3. Indication of any immediate medical attention and special treatment needed

Medical treatment	Treat symptomatically.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	Fire can be extinguished using: Foam, carbon dioxide or dry powder.
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## 5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	When heated and in case of fire, toxic vapours/gases may be formed.
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## 5.3. Advice for firefighters

Fire fighting procedures	Avoid breathing fire vapours. Self contained breathing apparatus and full protective clothing must be worn in case of fire. Containers close to fire should be removed or cooled with water.
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## SECTION 6: Accidental release measures

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

Personal protection measures	For personal protection, see section 8. Avoid inhalation of vapours and aerosols and contact with skin and eyes. Do not smoke or use open fire, or other sources of ignition.
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### 6.2. Environmental precautions

Environmental precautionary measures	Prevent spillage entering a watercourse or sewer, contaminating soil or vegetation. If this is not possible notify police and appropriate authorities immediately.
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### 6.3. Methods and material for containment and cleaning up

Cleaning method	Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb in vermiculite, dry sand or earth and place into containers.
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### 6.4. Reference to other sections

Other instructions	See also section 7, 8 & 13.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Handling	Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Avoid spilling, skin and eye contact. Do not smoke or use open fire, or other sources of ignition. Use explosion proof electric equipment. Use spark-proof tools and explosion-proof equipment. Container must be kept tightly closed.
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### 7.2. Conditions for safe storage, including any incompatibilities

Storage	Protect from freezing and direct sunlight. Store in closed original container at temperatures between 5°C and 25°C. Store away from reducing substances (eg amines), acids, alkalis and compounds with heavy metals (eg accelerators, drying agents, metallic soap). Keep flammable liquids away from flammable gas and highly flammable goods.
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### 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
Methyl ethyl ketone peroxides (MEKP)	CAS No.: 1338-23-4	<b>Limit value (short term)</b> Value: 1,5 mg/m <sup>3</sup>	
Butanone	CAS No.: 78-93-3	Limit value (8 h) : 200 ppm Limit value (8 h) : 600 mg/m <sup>3</sup> <b>Limit value (short term)</b> Value: 300 ppm <b>Limit value (short term)</b> Value: 899 mg/m <sup>3</sup> <b>Exposure limit letter</b> Letter code: Sk; BEI	
Dimethyl phthalate	CAS No.: 131-11-3	Limit value (8 h) : 5 mg/m <sup>3</sup> <b>Limit value (short term)</b> Value: 10 mg/m <sup>3</sup>	

#### Other Information about threshold limit values

The content of dimethyl phthalate is lower than the level of reporting requirements in section 3, according to data from the manufacturer.

### DNEL / PNEC

#### DNEL

Group: Consumer  
Route of exposure: Long-term dermal (systemic)  
Value: 0,54 mg/kg  
Reference: Methyl ethyl ketone peroxide

Group: Consumer  
Route of exposure: Long-term inhalation (systemic)  
Value: 0,41 mg/m<sup>3</sup>  
Reference: Methyl ethyl ketone peroxide

Group: Consumer  
Route of exposure: Long-term oral (systemic)  
Value: 0,27 mg/kg  
Reference: Methyl ethyl ketone peroxide

Group: Consumer  
Route of exposure: Long-term dermal (systemic)  
Value: 412 mg/kg  
Reference: Butanon

Group: Consumer  
Route of exposure: Long-term inhalation (systemic)  
Value: 106 mg/m<sup>3</sup>  
Reference: Butanon

Group: Consumer  
Route of exposure: Long-term oral (systemic)

PNEC	Value: 31 mg/kg Reference: Butanon
	Route of exposure: Freshwater Value: 0,0056 mg/l Reference: Methyl ethyl ketone peroxide
	Route of exposure: Saltwater Value: 0,00056 mg/l Reference: Methyl ethyl ketone peroxide
	Route of exposure: Sewage treatment plant STP Value: 1,2 mg/l Reference: Methyl ethyl ketone peroxide
	Route of exposure: Freshwater Value: 55,8 mg/l Reference: Butanon
	Route of exposure: Saltwater Value: 55,8 mg/l Reference: Butanon
	Route of exposure: Sewage treatment plant STP Value: 709 mg/l Reference: Butanon

## 8.2. Exposure controls

### Safety signs



### Eye / face protection

Eye protection	Wear tight-fitting goggles or face shield.
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### Hand protection

Hand protection	Chemical resistant gloves required for prolonged or repeated contact. Butyl rubber gloves are recommended. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.
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### Skin protection

Skin protection (except hands)	Wear appropriate clothing to prevent reasonably probable skin contact.
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### 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.
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## Other information

### Other information

Eating, smoking and water fountains prohibited in immediate work area.  
Wash at the end of each work shift and before eating, smoking and using the toilet.  
Promptly remove any clothing that becomes contaminated.

## SECTION 9: Physical and chemical properties

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

Form	Liquid
Physical state	Clear liquid.
Colour	Colourless.
Odour	Slight odour.
Odour limit	Comments: Not determined.
pH	Comments: Not determined.
Melting point / melting range	Comments: Not determined.
Boiling point / boiling range	Comments: Decomposes below boiling point.
Flash point	Comments: Over SADT No flash point was obtained but the product may release flammable vapors.
Evaporation rate	Comments: Not determined.
Lower explosion limit with unit of measurement	Reason for waiving data: No data.
Upper explosion limit with units of measurement	Reason for waiving data: No data.
Explosion limit	Comments: Organic peroxide, liquid
Vapour pressure	Value: 1 hPa Temperature: 84 °C
Vapour density	Reason for waiving data: No data.
Relative density	Value: 1,18 Temperature: 20 °C
Bulk density	Reason for waiving data: Not applicable
Solubility	Medium: Water Comments: Partially miscible Temperature: 20 °C  Medium: Other Comments: Miscible with: phthalates. Temperature: 20 °C
Partition coefficient: n-octanol/water	Reason for waiving data: No data.
Auto-ignition temperature	Comments: Not relevant.
Decomposition temperature	Value: $\geq 60$ °C Method: UN test H.4

Viscosity

Test reference: SADT-Self Accelerating Decomposition temperature. Lowest temperature at which the tested package size will undergo a self-accelerating decomposition reaction.

Value: 24 mPa.s  
Temperature: 20 °C  
Type: Dynamic

## 9.2. Other information

### Physical hazards

Organic peroxides

Comments: 30 - 37 %

### Other physical and chemical properties

Physical and chemical properties

Active oxygen content: 8.8 - 9.0%

#### 9.2.2. Other safety characteristics

Comments

No information.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity

The product is chemically stable under normal storage, use and temperature conditions.

### 10.2. Chemical stability

Stability

Stable under the prescribed storage 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 enclosed spaces.

### 10.5. Incompatible materials

Materials to avoid

Acceleratorer  
Tungmetaller  
Tungmetallsalter  
Strong acids.  
Strong alkalis.  
Strong reducing agents.  
Rust  
Ash  
Pollutions



## 10.6. Hazardous decomposition products

Hazardous decomposition products

When heated, toxic and corrosive vapours/gases may be formed.

## 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: 1017 mg/kg  
Species: råtta  
Comments: Experimentella toxikologiska data finns ej för beredningen som sådan. Ovanstående data gäller för komponenten metyletylketonperoxid, 40 % i dimetylfталat.

Type of toxicity: Acute  
Effect tested: LD50  
Route of exposure: Dermal  
Value: 4000 mg/kg  
Species: råtta  
Comments: Experimentella toxikologiska data finns ej för beredningen som sådan. Ovanstående data gäller för komponenten metyletylketonperoxid, 40 % i dimetylfталat.

Type of toxicity: Acute  
Effect tested: LC50  
Route of exposure: Inhalation.  
Duration: 4 timmar  
Value: 17 mg/l  
Species: råtta  
Comments: Experimentella toxikologiska data finns ej för beredningen som sådan. Ovanstående data gäller för komponenten metyletylketonperoxid, 40 % i dimetylfталat.

Other toxicological data

ATE (Oral): > 2000 mg/kg

### Other information regarding health hazards

Assessment of acute toxicity, classification	Harmful if inhaled.
Inhalation	Harmful by inhalation.
Skin contact	Strongly corrosive.
Eye contact	Causes serious eye irritation.
Ingestion	Harmful if swallowed.
Sensitisation	Not Sensitising.
Germ cell mutagenicity, human experience	Not determined.
Carcinogenicity, other information	Not determined.
Reproductive toxicity	Not determined.

Specific target organ toxicity - single exposure, human experience	Not determined.
Specific target organ toxicity - repeated exposure, human experience	Not determined.
Assessment of aspiration hazard, classification	Not determined.

## 11.2 Other information

Endocrine disruption	No information available.
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## SECTION 12: Ecological information

### 12.1. Toxicity

Aquatic toxicity, fish	Value: 44,2 mg/l Species: <i>Poecilia reticulata</i> Method: 96h-LC50
Acute aquatic, fish LCLo	Value: 5,6 mg/l Method: <i>Pseudokirchneriella subcapita</i> Test reference: 72h-EC50 Evaluation: (statiskt) (OECD 201)
Aquatic toxicity, crustacean	Value: 39 mg/l Species: <i>Magna</i> Method: 48h-EC50 Test reference: (statiskt) (OECD 202)
Ecotoxicity	The product may have adverse effects on organisms in soil and water.

### 12.2. Persistence and degradability

Persistence and degradability description/evaluation	The product is easily biodegradable.
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### 12.3. Bioaccumulative potential

Bioaccumulation, evaluation	The product does not contain any substances expected to be bioaccumulating.
Bioaccumulation, comments	On basis of test data.

### 12.4. Mobility in soil

Mobility	No information.
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### 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	Not Classified as PBT/vPvB by current EU criteria.
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### 12.6. Endocrine disrupting properties

Endocrine disrupting properties	No information available.
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## 12.7. Other adverse effects

Additional ecological information 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.

EWC waste code 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 3105

IMDG 3105

ICAO/IATA 3105

### 14.2. UN proper shipping name

ADR/RID/ADN ORGANIC PEROXIDE TYPE D, LIQUID

IMDG ORGANIC PEROXIDE TYPE D, LIQUID

ICAO/IATA ORGANIC PEROXIDE TYPE D, LIQUID

### 14.3. Transport hazard class(es)

ADR/RID/ADN 5.2

Classification code ADN P1

IMDG 5.2

ICAO/IATA 5.2

### 14.4. Packing group

### 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

Special safety precautions for user	Not relevant.
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## 14.7. Maritime transport in bulk according to IMO instruments

Transport in bulk (yes/no)	No
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## ADR/RID Other information

Tunnel restriction code	D
Other applicable information ADR/ RID	RID: Hazard number 539

## IMDG Other information

EmS	F-J, S-R
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## ICAO/IATA Other information

Other transport, general	Packing Instruction 570.
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## SECTION 15: Regulatory information

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

EEC-directive	Seveso-direktivet; P6b, 50 ton/ 200 ton.
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
Chemical safety assessment	Methyl ethyl ketone peroxide

## SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)	H225 Highly flammable liquid and vapour. H240 Heating may cause an explosion. H242 Heating may cause a fire. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H336 May cause drowsiness or dizziness.
Information added, deleted or revised	2022-12-13: * changed % for substances 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

4