

According to Regulation (EC) No 1907/2006

FIBERFIX Repair Kit part B (Härdare)**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Trade name**

FIBERFIX Repair Kit part B (Härdare)

Article No.

9008xx, 9012

UFI code

VH60-CHSU-NE9R-SEWV

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

Hardener for polyester resin.

Use together with Part A (polyester).

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

According to Regulation (EC) No 1907/2006

FIBERFIX Repair Kit part B (Härdare)**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**Classification according to Regulation (EC) No 1272/2008**Classification**

Organic peroxides, Type D

Acute toxicity, oral, hazard category 4

Skin corrosion, hazard category 1B

Serious eye damage, hazard category 1

Acute toxicity, inhalation, hazard category 4

Hazard statements

H242, H302, H314, H318, H332

2.2. Label elementsLabelling according to Regulation (EC) No 1272/2008**Hazard pictograms****Signal word**

Danger

Hazard statements

H242 Heating may cause a fire.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H332 Harmful if inhaled.

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, carbon dioxide or dry powder. to extinguish.

P501 Dispose of contents/container to approved waste receiver.

More information

Contains: Methyl ethyl ketone peroxides (MEKP) , Butanone

2.3. Other hazards

This product does not contain any PBT or vPvB substances.

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FIBERFIX Repair Kit part B (Härdare)**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
Methyl ethyl ketone peroxides (MEKP)	1338-23-4 215-661-2 01-2119514691-43 -	30 - 37%	Org. Perox. A, Acute Tox. 4 - oral, Skin Corr. 1B, Eye Dam. 1, Acute Tox. 4 - inhalation	H240, H302, H314, H318, H332 - -	-
Butanone	78-93-3 201-159-0 - 606-002-00-3	1 - 3%	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3 - narcosis	H225, H319, H336 - -	-

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

Get medical attention immediately!
Remove affected person from source of contamination.
Show this safety data sheet to the doctor in attendance.

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. May cause chemical burns in mouth and throat.

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FIBERFIX Repair Kit part B (Härdare)**4.2. Most important symptoms and effects, both acute and delayed**

Harmful if swallowed or if inhaled.

Causes serious eye damage.

Highly Corrosive.

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**

Fire can be extinguished using: Foam, carbon dioxide or dry powder.

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**

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

Other**Measures in case of fire**

Avoid breathing fire vapours.

Containers close to fire should be removed or cooled with water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

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.

6.2. Environmental precautions

Prevent spillage entering a watercourse or sewer, contaminating soil or vegetation. If this is not possible notify police and appropriate authorities immediately.

6.3. Methods and material for containment and cleaning up

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.

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

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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FIBERFIX Repair Kit part B (Härdare)**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Preventive handling precautions**

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.

7.2. Conditions for safe storage, including any incompatibilities

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.

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****Exposure limits**

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

National occupational exposure limits

Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m ³	Short-term exposure limit ppm / mg/m ³	Source	Remark	Year
Methyl ethyl ketone peroxides (MEKP)	1338-23-4 215-661-2	- -	0.2 1.5	EH40/2005	-	-
Butanone	78-93-3 201-159-0	200 600	300 899	EH40/2005	Sk, BMGV	-

DNEL/DMEL

Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
Methyl ethyl ketone peroxides (MEKP) (1338-23-4/215-661-2)	DNEL	Chronic (long term) Dermal	0.54 mg/kg	Consumers	Systemic

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FIBERFIX Repair Kit part B (Härdare)

Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
Methyl ethyl ketone peroxides (MEKP) (1338-23-4/215-661-2)	DNEL	Chronic (long term) Inhalation	0.41 mg/m ³	Consumers	Systemic
Methyl ethyl ketone peroxides (MEKP) (1338-23-4/215-661-2)	DNEL	Chronic (long term) Oral	0.27 mg/kg	Consumers	Systemic
Butanone (78-93-3/201-159-0)	DNEL	Chronic (long term) Dermal	412 mg/kg	Consumers	Systemic
Butanone (78-93-3/201-159-0)	DNEL	Chronic (long term) Inhalation	106 mg/m ³	Consumers	Systemic
Butanone (78-93-3/201-159-0)	DNEL	Chronic (long term) Oral	31 mg/kg	Consumers	Systemic

PNEC/PEC

Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
Methyl ethyl ketone peroxides (MEKP) (1338-23-4/215-661-2)	PNEC	Freshwater	0.0056 mg/l
Methyl ethyl ketone peroxides (MEKP) (1338-23-4/215-661-2)	PNEC	Marine water	0.00056 mg/l
Methyl ethyl ketone peroxides (MEKP) (1338-23-4/215-661-2)	PNEC	Sewage Treatment Plant	1.2 mg/l
Butanone (78-93-3/201-159-0)	PNEC	Freshwater	55.8 mg/l
Butanone (78-93-3/201-159-0)	PNEC	Marine water	55.8 mg/l
Butanone (78-93-3/201-159-0)	PNEC	Sewage Treatment Plant	709 mg/l

8.2. Exposure controls**Personal Protective Equipment Symbols****Eye / face protection**

Wear tight-fitting goggles or face shield.

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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FIBERFIX Repair Kit part B (Härdare)**Other skin protection**

Wear appropriate clothing to prevent reasonably probable skin contact.

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.

Other

When using do not eat, drink or smoke.

Wash hands 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****Physical state**

Clear liquid.

Colour

Colourless.

Odour

Slight odour.

Melting point / freezing point

No data available

Boiling point or initial boiling point and boiling range

No data available

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

≥ 60 °C

Method

UN test H.4

pH

No data available

According to Regulation (EC) No 1907/2006

FIBERFIX Repair Kit part B (Härdare)**Kinematic viscosity**

No data available

Viscosity, dynamic

24 mPa · s

Solubility

Miscible with: phthalates.

Water solubility

Partially soluble in water.

Partition coefficient n-octanol/water

No data available

Vapour pressure

1 hPa; 84 °C

Density and/or relative density

No data available

Relative density

1.18

Relative vapour density

No data available

Explosive properties

Not considered to be explosive.

Oxidising properties

Does not meet the criteria for oxidising.

Particle characteristics

No data available

9.2. Other information

No data available

Other

Flash point: Over SADT. No flash point was obtained but the product may release flammable vapors.

Organic peroxides : 30 - 37 %

Active oxygen content: 8,8 - 9,0 %

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

A dangerous self-accelerating decomposition reaction, and under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the SADT. Contact with incompatible substances may cause disintegration during SADT.

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FIBERFIX Repair Kit part B (Härdare)**SECTION 10: Stability and reactivity****10.1. Reactivity**

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

10.2. Chemical stability

Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

None under normal conditions.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition.

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

10.5. Incompatible materials

Conditions/materials to avoid:

Accelerators

Heavy metals

Heavy metal salts

Strong acids.

Strong alkalis.

Strong reducing agents.

Rust

Ash

Pollutions

10.6. Hazardous decomposition products

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

Irritating gases/vapours/fumes of; carbon oxides, formic acid, acetic acid, propionic acid, methyl ethyl ketone (MEK).

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

Harmful if inhaled. Harmful if swallowed.

Product / Sub- stance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Remarks
Methyl ethyl ketone peroxides (MEKP) 1338-23-4 / 215- 661-2	LD50	1017 mg/kg	Oral	-	Rat	Data apply to the component methyl ethyl ketone peroxide, 40% in dimethyl phthalate.

According to Regulation (EC) No 1907/2006

FIBERFIX Repair Kit part B (Härdare)

Product / Sub- stance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Remarks
Methyl ethyl ketone peroxides (MEKP) 1338-23-4 / 215- 661-2	LD50	4000 mg/kg	Dermal	-	Rat	Data apply to the component methyl ethyl ketone peroxide, 40% in dimethyl phthalate.
Methyl ethyl ketone peroxides (MEKP) 1338-23-4 / 215- 661-2	LC50	17 mg/l	Inhalation.	4 hours	Rat	Data apply to the component methyl ethyl ketone peroxide, 40% in dimethyl phthalate.
- -	ATE	> 2000 mg/kg	Oral	-	-	-

Skin corrosion/irritation

Causes severe skin burns.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Not sensitising.

Germ cell mutagenicity

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

Carcinogenicity

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

Repeated dose toxicity

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 skin contact

Highly Corrosive.

According to Regulation (EC) No 1907/2006

FIBERFIX Repair Kit part B (Härdare)**11.2. Information on other hazards****Endocrine disrupting properties**

No information available.

SECTION 12: Ecological information**12.1. Toxicity****Toxicity**

The product may have adverse effects on organisms in soil and water.

Acute fish toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
- -	EC50	5.6 mg/l	72 hours	Pseudokirchneriella subcapitata	OECD 201
- -	LC50	44.2 mg/l	96 hours	Poecilia reticulata (Guppy)	-

Acute crustacean toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
- -	EC50	39 mg/l	48 hours	Daphnia magna	OECD 202

12.2. Persistence and degradability

The product is easily biodegradable.

12.3. Bioaccumulative potential**Bioaccumulative potential**

The product does not contain any substances expected to be bioaccumulating.

On basis of test data.

12.4. Mobility in soil**Mobility**

No information available.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Endocrine disrupting properties

No information available.

According to Regulation (EC) No 1907/2006

FIBERFIX Repair Kit part B (Härdare)**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.

Other

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**

3105

14.2. UN proper shipping name**ADR / RID / ADN proper shipping name**

ORGANIC PEROXIDE TYPE D, LIQUID

IMDG proper shipping name

ORGANIC PEROXIDE TYPE D, LIQUID

IATA proper shipping name

Organic peroxide type D, liquid

According to Regulation (EC) No 1907/2006

FIBERFIX Repair Kit part B (Härdare)**14.3. Transport hazard class(es)****Label**

ADR/RID/ADN



5.2

IMDG



5.2

IATA



5.2

ADR / RID Class

5.2

ADR / RID Classification code

P1

ADR / RID hazard identification number

539

IMDG Class

5.2

IATA Class

5.2

ADN Class

5.2

ADN Class Code

P1

14.4. Packing group

Not applicable

14.5. Environmental hazards**Environmental hazards**

No.

According to Regulation (EC) No 1907/2006

FIBERFIX Repair Kit part B (Härdare)**IMDG Marine Pollutant**

No.

14.6. Special precautions for user**Special precautions for user**

Tunnel restriction code: D

Transport category: 2

IMDG EmS

F-J, S-R

14.7. Maritime transport in bulk according to IMO instruments

No.

Other**Additional information ADR-RID**

RID: farlighetsnummer 539

Additional information IATA (ICAO)

Packaging instruction 570.

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.
SEVESO-category: P6b , 50 t / 200 t

National regulations

No data available

15.2. Chemical safety assessment

Methyl ethyl ketone peroxides (MEKP) : A chemical safety assessment has been carried out.

According to Regulation (EC) No 1907/2006

FIBERFIX Repair Kit part B (Härdare)**SECTION 16: Other information****Changes to previous revision**

changed substances in 3.2

new UFI

updated according to EU 2020/878

Phrase meaning

Org. Perox. D - Organic peroxides, Type D

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

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

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

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

Org. Perox. A - Organic peroxides, Type A

Flam. Liq. 2 - Flammable liquids, hazard category 2

Eye Irrit. 2 - Eye irritation, hazard category 2

STOT SE 3 - narcosis - Specific Target Organ Toxicity — Single exposure, hazard category 3 - narcosis

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.