SAFETY DATA SHEET

FIBERFIX Flytande 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 Flytande härdare _EN
UFI	VH60-CHSU-NE9R-SEWV
Synonyms	Liquid 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.
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
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]	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 EC No.: 215-661-2 REACH Reg. No.: 01-2119514691-43	Org. Perox. A; H240 Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Corr. 1B; H314 Eye Dam. 1; H318	30 - 37 %
Butanone	CAS No.: 78-93-3 EC No.: 201-159-0 Index No.: 606-002-00-3	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	1 - -3 %
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.

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

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.

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.

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.

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.

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.

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	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

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.

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	**Limit value (short term)** Value: 1,5 mg/m3	
Butanone	CAS No.: 78-93-3	Limit value (8 h) : 200 ppm Limit value (8 h) : 600 mg/m³ **Limit value (short term)** Value: 300 ppm **Limit value (short term)** Value: 899 mg/m³ **Exposure limit letter** Letter code: Sk; BEI	
Dimethyl phthalate	CAS No.: 131-11-3	Limit value (8 h) : 5 mg/m³ **Limit value (short term)** Value: 10 mg/m³	

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/m³
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

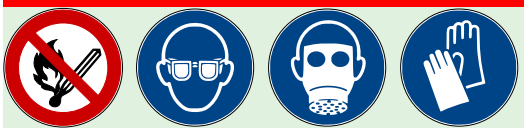
Group: Consumer
Route of exposure: Long-term inhalation (systemic)
Value: 106 mg/m³
Reference: Butanon

Group: Consumer
Route of exposure: Long-term oral (systemic)
Value: 31 mg/kg
Reference: Butanon

PNEC	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.

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.

Skin protection

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

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.

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: ≥ 60 °C Method: UN test H.4 Test reference: SADT-Self Accelerating Decomposition temperature. Lowest temperature at which the tested package size will undergo a self-accelerating decomposition reaction.

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

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity, fish	Value: 44,2 rng/l Species: Poecilia reticulata Method: 96h-LC5O
Acute aquatic, fish LCLo	Value: 5,6 mg/l Method: Pseudokirchneriella subcapita Test reference: 72h-EC50 Evaluation: (statiskt) (OECD 201)
Aquatic toxicity, crustacean	Value: 39 mg/l Species: Magna 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.

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.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	Not Classified as PBT/vPvB by current EU criteria.

12.6. Endocrine disrupting properties

Endocrine disrupting properties	No information available.

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.

14.7. Maritime transport in bulk according to IMO instruments

Transport in bulk (yes/no)	No

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

ICAO/IATA Other information

Other transport, general	Packing Instruction 570.

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	20