

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 10/20/2022 Revision date: 5/23/2023 Supersedes version of: 11/2/2022 Version: 1.2

Binder

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

## **1.1. Product identifier**

Product form	: Mixture
Trade name	: Fortafix QS/B4
Product code	: FF131/C
Type of product	: adhesives
Product group	: Blend

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

#### 1.2.1. Relevant identified uses

Main use category	: 11	Industrial use, Professional use, Consumer use	
Industrial/Professional use spec	: 1	ndustrial	
Use of the substance/mixture	: A	Adhesives, Sealants	
	A	Adhesives, binding agents	
Function or use category	: A	Adhesives, binding agents, Adhesives, Sealants	

1.2.2. Uses advised against

No additional information available

# 1.3. Details of the supplier of the safety data sheet

Minkon Ltd Tofts Farm Industrial Estate Brenda Road TS25 2BS Hartlepool – Durham United Kingdom T 01429 273252 sales@minkon.co.uk - www.minkon.co.uk

1.4. Emergency telephone number

Emergency number

: ++44 (0)1429 273252

# **SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

Causes eye irritation. Causes skin irritation. May be harmful if swallowed.

## 2.2. Label elements

Labelling according to Regulation (EC) I	NO. 1272/2008 [CLP]
Precautionary statements (CLP)	: P102 - Keep out of reach of children.
	P103 - Read carefully and follow all instructions.
	P264 - Wash hands, forearms and face thoroughly after handling.
	P302+P352 - IF ON SKIN: Wash with plenty of water.
	P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes.
	Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a
	POISON CENTER or doctor.

#### 2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

: alkaline medium.

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# **SECTION 3: Composition/information on ingredients**

# 3.1. Substances

# Not applicable

# Sodium silicate CAS-No.: 1344-09-8 < 40</th> Skin Corr. 1, H314 EC-No.: 215-687-4 REACH-no: 01 211944872531 < 40</td> Skin Corr. 1, H318

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures general First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact	<ul> <li>If you feel unwell, seek medical advice.</li> <li>Remove person to fresh air and keep comfortable for breathing.</li> <li>Wash skin with plenty of water.</li> <li>Rinse eyes with water as a precaution. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> </ul>	
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.	
4.2. Most important symptoms and effect	s, both acute and delayed	
Symptoms/effects Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion	<ul> <li>Causes eye irritation.</li> <li>None under normal use.</li> <li>Repeated exposure may cause skin dryness or cracking.</li> <li>Causes serious eye irritation.</li> <li>May be harmful if swallowed.</li> </ul>	
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	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Special hazards arising from the subst	tance or mixture
Fire hazard Explosion hazard Reactivity in case of fire Hazardous decomposition products in case of fire	<ul> <li>Not flammable. No fire hazard.</li> <li>No direct explosion hazard.</li> <li>Product is not explosive.</li> <li>Toxic fumes may be released.</li> </ul>
5.3. Advice for firefighters	
Firefighting instructions Protection during firefighting	<ul> <li>Use water spray or fog for cooling exposed containers.</li> <li>Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.</li> </ul>

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SECTION 6: Accidental release measures				
6.1. Personal precautions, protective equ	6.1. Personal precautions, protective equipment and emergency procedures			
General measures	: Clean up any spills as soon as possible, using an absorbent material to collect it.			
6.1.1. For non-emergency personnel				
Emergency procedures	: Ventilate spillage area. Avoid contact with skin, eyes and clothing.			
6.1.2. For emergency responders				
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".			
6.2. Environmental precautions				
Avoid release to the environment.				
6.3. Methods and material for containment and cleaning up				
For containment	: For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal.			
Methods for cleaning up	: Take up liquid spill into absorbent material.			
Other information	: Dispose of materials or solid residues at an authorized site.			

# 6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage	9		
7.1. Precautions for safe handling			
Precautions for safe handling Hygiene measures	<ul> <li>Ensure good ventilation of the work station. Wear personal protective equipment.</li> <li>Do not eat, drink or smoke when using this product. Always wash hands after handling the product.</li> </ul>		
7.2. Conditions for safe storage, including any incompatibilities			
Technical measures Storage conditions Maximum storage period Storage temperature Packaging materials	<ul> <li>Store in tightly closed, leak-proof containers.</li> <li>Store in a well-ventilated place. Keep cool.</li> <li>12 months</li> <li>5 - 30 °C</li> <li>Store always product in container of same material as original container.</li> </ul>		
7.3. Specific end use(s)			

No additional information available

# SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

# 8.1.1 National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

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## 8.1.5. Control banding

No additional information available

# 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

## Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

**Eye protection:** Safety glasses

## 8.2.2.2. Skin protection

Skin and body protection: Wear suitable protective clothing

#### Hand protection: Protective gloves

8.2.2.3. Respiratory protection

#### Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

# Environmental exposure controls:

Avoid release to the environment.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Colour	: Colourless.
Odour	: No data available
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available

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Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

# 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

# 10.2. Chemical stability

Stable under normal conditions.

**10.3. Possibility of hazardous reactions** 

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

**10.6. Hazardous decomposition products** 

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information	
11.1 Information on toxicological effects	
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	<ul> <li>May be harmful if swallowed (Not applicable)</li> <li>Not classified</li> <li>Not classified</li> </ul>
sodium silicate (1344-09-8)	
LD50 dermal rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 2.06 mg/l air Animal: rat, Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity)
Skin corrosion/irritation	: Slightly irritant but not relevant for classification (Not applicable)
sodium silicate (1344-09-8)	
рН	> 13.5 Concentration: ]42 vol%,46 vol%[
Serious eye damage/irritation	: Slightly irritant but not relevant for classification (Not applicable)
sodium silicate (1344-09-8)	
рН	> 13.5 Concentration: ]42 vol%,46 vol%[
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

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Aspiration hazard

: Not classified

12.1. Toxicity	
Hazardous to the aquatic environment, short-term (acute)	<ul> <li>The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.</li> <li>Not classified</li> <li>Not classified</li> </ul>
sodium silicate (1344-09-8)	
LC50 - Fish [1]	3185 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	1700 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	207 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	> 345.4 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessment	
No additional information available	
12.6. Other adverse effects	
No additional information available	

# 13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

# **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID				
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

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ADR	IMDG	ΙΑΤΑ	ADN	RID
14.3. Transport hazard c	lass(es)	·		
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group		· · · ·		
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental haz	ards	· ·		
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

## 14.6. Special precautions for user

#### **Overland transport**

Not applicable

Transport by sea Not applicable

Air transport Not applicable

# Inland waterway transport

Not applicable

## **Rail transport**

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

## Not applicable

# SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

#### **REACH Annex XVII (Restriction List)**

Contains no REACH substances with Annex XVII restrictions

#### **REACH Annex XIV (Authorisation List)**

Contains no REACH Annex XIV substances

## **REACH Candidate List (SVHC)**

Contains no substance on the REACH candidate list

## **PIC Regulation (Prior Informed Consent)**

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

## **POP Regulation (Persistent Organic Pollutants)**

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### Ozone Regulation (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

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# **Explosives Precursors Regulation (2019/1148)**

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

## Drug Precursors Regulation (273/2004)

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

# 15.1.2. National regulations

#### Germany

Employment restrictions Water hazard class (WGK) Hazardous Incident Ordinance (12. BImSchV)	<ul> <li>Observe restrictions according Act on the Protection of Working Mothers (MuSchG).</li> <li>Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).</li> <li>WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).</li> <li>Is not subject of the Hazardous Incident Ordinance (12. BImSchV)</li> </ul>
Netherlands	
SZW-lijst van kankerverwekkende stoffen SZW-lijst van mutagene stoffen SZW-lijst van reprotoxische stoffen – Borstvoeding SZW-lijst van reprotoxische stoffen – Vruchtbaarheid SZW-lijst van reprotoxische stoffen – Ontwikkeling	<ul> <li>None of the components are listed</li> </ul>
Switzerland	
Storage class (LK)	: LK 10/12 - Liquids
15.2. Chemical safety assessment	

No chemical safety assessment has been carried out

# **SECTION 16: Other information**

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	

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Abbreviations and acronyms:		
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
РВТ	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

Full text of H- and EUH-statements:		
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
H314	Causes severe skin burns and eye damage.	
H318	Causes serious eye damage.	
Skin Corr. 1	Skin corrosion/irritation, Category 1	

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.