

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 11/3/2021 Revision date: 2/25/2025 Supersedes version of: 10/20/2022 Version: 1.7

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

## 1.1. Product identifier

Product form	: Mixture
Trade name	: Fortafix Flame Bond G4
Product code	: FFM101
Type of product	: adhesives
Product group	: End product

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

### 1.2.1. Relevant identified uses

Intended for general public	
Main use category	: Industrial use, Professional use, Consumer use
Industrial/Professional use spec	: Industrial
	Use resulting in inclusion into or onto a matrix
Use of the substance/mixture	: Adhesives, Sealants
Function or use category	: Adhesives, Sealants

#### 1.2.2. Uses advised against

No additional information available

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

## Manufacturer

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

### **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]

Serious eye damage/eye irritation, Category 1 Full text of H- and EUH-statements: see section 16

#### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

H318

2.2. Label elements

According to EC directives or the corresponding national regulations there is no labelling obligation for this product. No labelling applicable

### 2.3. Other hazards

PBT: not relevant – no registration required Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Other information

: alkaline medium.

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

## 3.1. Substances

Not applicable

# 3.2. Mixtures

### Comments

: Additives

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
sodium silicate	CAS-No.: 1344-09-8 EC-No.: 215-687-4 REACH-no: 01- 211944872531	< 40	Skin Corr. 1, H314 Eye Dam. 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 after inhalation	: Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: If skin irritation occurs: Get medical advice/attention. Gently wash with plenty of soap and water. Wash skin with plenty of water.
First-aid measures after eye contact First-aid measures after ingestion	<ul> <li>IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice / attention. Direct contact with the eyes is likely to be irritating. Obtain medical attention if pain, blinking or redness persists. Rinse eyes with water as a precaution.</li> <li>If swallowed, seek medical advice immediately and show this container or label. Call a poison center or a doctor if you feel unwell.</li> </ul>
4.2. Most important symptoms and effects	s, both acute and delayed
Symptoms/effects Symptoms/effects after skin contact	<ul> <li>Causes serious eye irritation. May cause an allergic skin reaction.</li> <li>Contact during a long period may cause light irritation. Irritation. Repeated exposure may cause skin dryness or cracking.</li> </ul>
Symptoms/effects after eye contact Symptoms/effects after ingestion	<ul> <li>Direct contact with the eyes is likely to be irritating. Eye irritation.</li> <li>May cause irritation to the digestive tract.</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 substance or mixture		
Fire hazard	: No fire hazard. Not flammable.	
Explosion hazard	: No direct explosion hazard.	
Reactivity in case of fire	: Product is not explosive.	
Hazardous decomposition products in case of fire	: Toxic fumes may be released.	

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## **5.3. Advice for firefighters**

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		
General measures	: Avoid contact with skin and eyes.	
6.1.1. For non-emergency personnel Protective equipment	: Wear recommended personal protective equipment.	
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes.	
6.1.2. For emergency responders		
Protective equipment	: Do not attempt to take action without suitable protective equipment. Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	

## 6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter drains or water courses.

6.3. Methods and material for containment and cleaning up		
For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.	
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	
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. Do not get in eyes, on skin, or on clothing. Avoid contact with skin, eyes and clothing. Use personal protective equipment as required.</li> <li>Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wear personal protective equipment. 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 a	any incompatibilities
Technical measures Storage conditions Maximum storage period Storage temperature Special rules on packaging Packaging materials	<ul> <li>Does not require any specific or particular technical measures.</li> <li>Keep container tightly closed. Store in a well-ventilated place. Keep cool.</li> <li>&lt; 12 months</li> <li>5 - 30 °C</li> <li>Store in a closed container.</li> <li>Store always product in container of same material as original container.</li> </ul>

## 7.3. Specific end use(s)

Adhesives, Sealants. An adhesive is a product capable of joining materials by surface bonding (adhesion), where the bond possesses adequate internal strength (cohesion). A sealant is an adhesive product applied to joints in order to fill gaps, mechanically block or protect from, for example, air and water.

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## SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

## 8.1.1 National occupational exposure and biological limit values

## Exposure limit values for the other components

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gulatory reference Pravil Pravil izlože biološ 1/202	'n	
Pravil izlože biološ 1/202	/m³ R (respirabilna prašina)	
	ilnik o izmjenama i dopunama ilnika o graničnim vrijednostima enosti opasnim tvarima pri radu i o škim graničnim vrijednostima (NN 21)	
nmark - Occupational Exposure Limits		
al name Kaolin	'n	
L TWA [1] 2 mg/	/m³ respirabel	
gulatory reference BEK	nr 1426 af 28. juni 2021	
land - Occupational Exposure Limits		
al name Kaolii	ini	
P (OEL TWA) [1] 2 mg/	/m³ alveolijae	
	-ARVOT 2020 (Sosiaali- ja ysministeriö)	
Ireland - Occupational Exposure Limits		
al name Kaolin	in, respirable dust	
L TWA [1] 2 mg/	/m³	
gulatory reference Chem	nical Agents Code of Practice 2021	
Poland - Occupational Exposure Limits		
al name Kaolin		

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(1332-58-7)		
NDS (OEL TWA)	10 mg/m³ frakcja wdychalna	
Remark	Frakcja wdychalna – frakcja aerozolu wnikająca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia. Obowiązuje jednoczesne oznaczanie stężeń frakcji respirabilnej krzemionki krystalicznej.	
Regulatory reference	Dz. U. 2018 poz. 1286	
Portugal - Occupational Exposure Limits		
Local name	Caulino	
OEL TWA	2 mg/m³ E (O valor aplica-se a partículas sem amianto e contendo menos de 1 % de sílica cristalina), R (Fração respirável)	
Remark	A4 (Agente não classificável como carcinogénico no Homem)	
Regulatory reference	Norma Portuguesa NP 1796:2014	
United Kingdom - Occupational Exposure Limits		
Local name	Kaolin	
WEL TWA (OEL TWA) [1]	2 mg/m <sup>3</sup> respirable dust	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
Iceland - Occupational Exposure Limits		
Local name	Kaolín, örfínt ryk	
OEL TWA	2 mg/m³	
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)	
Switzerland - Occupational Exposure Limits		
Local name	Kaolin / Kaolin	
MAK (OEL TWA) [1]	3 mg/m³ (a) / (a)	
Critical toxicity	Fibpulm / Lungenfibrose	
Regulatory reference	www.suva.ch, 01.01.2021	

## 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

#### 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.

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### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Gloves. Safety glasses.

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:** No respiratory protection needed under normal use conditions

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

## Environmental exposure controls:

Avoid release to the environment.

## Other information:

Do not eat, drink or smoke during use.

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

## 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Paste.
Colour	: light brown.
Odour	: odourless.
Odour threshold	: No data available
рН	: >7
pH solution	: Alkaline
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: 0 °C
Boiling point	: 100
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.45 – 1.75 g/ml
Solubility	: In water, material is partially soluble.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

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Explosive properties Oxidising properties Explosive limits	<ul><li>No data available</li><li>No data available</li><li>No data available</li></ul>	
9.2. Other information		

Softening point

: 900 °C

## **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** 

Strong acids.

**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) Additional information	<ul> <li>May be harmful if swallowed (Based on available data, the classification criteria are not met)</li> <li>Not classified</li> <li>Not classified</li> <li>No data available</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) pH: > 7
Additional information	: Causes skin irritation.
sodium silicate (1344-09-8)	
рН	> 13.5 Concentration: ]42 vol%,46 vol%[
Serious eye damage/irritation	: Slightly irritant but not relevant for classification (Based on available data, the classification criteria are not met) pH: > 7
Additional information	Causes eye irritation
sodium silicate (1344-09-8)	
рН	> 13.5 Concentration: ]42 vol%,46 vol%[
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified

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Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general Hazardous to the aquatic environment, short-term (acute) Hazardous to the aquatic environment, long-term (chronic) Not rapidly degradable	<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		

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		
Fortafix Flame Bond G4		
PBT: not relevant – no registration required		
12.6. Other adverse effects		

No additional information available

SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Regional legislation (waste)	: Disposal must be done according to official regulations.	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.	
Sewage disposal recommendations	: Disposal must be done according to official regulations.	
Product/Packaging disposal recommendations	: Clean with water. Do not dispose of the packaging without first carrying out the necessary cleaning.	
Additional information	: Clean up even minor leaks or spills if possible without unnecessary risk.	
Ecology - waste materials	: Avoid release to the environment.	

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accordance with ADR / IMD	G / IATA / ADN / RID			
ADR	IMDG	ΙΑΤΑ	ADN	RID
NOT SUBJECT				
I.1. UN number				
Not applicable	Not regulated	Not regulated	Not regulated	Not regulated
4.2. UN proper shipping	g name			
Not applicable	Not regulated	Not regulated	Not regulated	Not regulated
1.3. Transport hazard c	lass(es)			
Not applicable	Not regulated	Not regulated	Not regulated	Not regulated
4.4. Packing group				
Not applicable	Not regulated	Not regulated	Not regulated	Not regulated
4.5. Environmental haz	ards			
Dangerous for the environment: No	Not regulated	Not regulated	Not regulated	Not regulated
o supplementary information	n available	1	1	1
.6. Special precautions	- for			
pecial transport precautions	. Do	not empty into drains		
verland transport				
ansport regulations (ADR)	: No	t subject		
ansport by sea				
t regulated				
ir transport				
ot regulated				
· · · · · · · · · · · · · · · · · · ·				
land waterway transport ot regulated				
-				
ail transport ot regulated				
-	cording to Annex II of M	larpol and the IBC Code		
ot applicable				
ECTION 15: Regulato	w information			
5.1. Safety, health and e	environmental regulation	s/legislation specific for	the substance or mixture	e
.1.1. EU-Regulations				
ACH Annex XVII (Restrict				
ntains no REACH substanc	es with Annex XVII restriction	าร		
EACH Annex XIV (Authoris				
ontains no REACH Annex XI	V substances			

Contains no REACH Annex XIV substances

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

Contains no substance on the REACH candidate list

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### **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.

### **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	<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> </ul>	
Water hazard class (WGK)	: WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).	
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)	
Netherlands		
SZW-lijst van kankerverwekkende stoffen	: None of the components are listed	
SZW-lijst van mutagene stoffen	: None of the components are listed	
SZW-lijst van reprotoxische stoffen – Borstvoeding	: None of the components are listed	
SZW-lijst van reprotoxische stoffen –	: None of the components are listed	
Vruchtbaarheid		
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: None of the components are listed	
Switzerland		
Storage class (LK)	: LK 10/12 - Liquids	
15.2. Chemical safety assessment		
TOLE. Onenneur Surety desessment		

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

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Abbreviations and acronyms:	
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
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.