

### 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: 1.8

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

#### 1.1. Product identifier

Product form : Mixture

Trade name : Fortfix Flueseal

Product code : FFM114

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

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]

Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 2 H319

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

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

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

#### 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

Remove person to fresh air and keep comfortable for breathing. First-aid measures after inhalation

First-aid measures after skin contact Gently wash with plenty of soap and water. Wash skin with plenty of water. Take off

contaminated clothing. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact

: 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 cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

First-aid measures after ingestion : If swallowed, seek medical advice immediately and show this container or label. Call a

poison center or a doctor if you feel unwell.

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

Symptoms/effects : Causes serious eye irritation. May cause an allergic skin reaction.

Symptoms/effects after skin contact : Contact during a long period may cause light irritation. Irritation. Repeated exposure may

cause skin dryness or cracking.

Symptoms/effects after eye contact Direct contact with the eyes is likely to be irritating. Eye irritation.

Symptoms/effects after ingestion May cause irritation to the digestive tract.

### 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 : Ensure good ventilation of the work station. Do not get in eyes, on skin, or on clothing.

Avoid contact with skin, eyes and clothing. Use personal protective equipment as required.

Wear personal protective equipment.

Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Wear personal protective equipment. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash

hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Does not require any specific or particular technical measures.

Storage conditions : Keep container tightly closed. Store in a well-ventilated place. Keep cool.

Maximum storage period : < 12 months Storage temperature : 5 - 30 °C

Special rules on packaging : Store in a closed container.

Packaging materials : Store always product in container of same material as original container.

#### 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

(1332-58-7)			
Belgium - Occupational Exposure Limits			
Local name	Kaolin (fraction alvéolaire) # Kaolien (inadembare fractie)		
OEL TWA	2 mg/m³		
Regulatory reference	Koninklijk besluit/Arrêté royal 19/11/2020		
Bulgaria - Occupational Exposure Limits			
Local name	Каолин, съдържащ под 2 % свободен кристален силициев диоксид в респирабилната фракция		
OEL TWA	6 mg/m³ (Инхалабилна фракция) 3 mg/m³ (Респирабилна фракция)		
Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр. 47 от 2021 г., в сила от 04.06.2021 г.)		
Croatia - Occupational Exposure Limits			
Local name	Kaolin		
GVI (OEL TWA) [1]	2 mg/m³ R (respirabilna prašina)		
Regulatory reference	Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN 1/2021)		
Denmark - Occupational Exposure Limits			
Local name	Kaolin		
OEL TWA [1]	2 mg/m³ respirabel		
Regulatory reference	BEK nr 1426 af 28. juni 2021		
Finland - Occupational Exposure Limits			
Local name	Kaoliini		
HTP (OEL TWA) [1]	2 mg/m³ alveolijae		
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö)		
Ireland - Occupational Exposure Limits			
Local name	Kaolin, respirable dust		
OEL TWA [1]	2 mg/m³		
Regulatory reference	Chemical Agents Code of Practice 2021		
Poland - Occupational Exposure Limits			
Local 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/m³ 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: LiquidAppearance: Paste.Colour: light brown.Odour: odourless.Odour threshold: No data available

pH : >7 pH solution : Alkaline

Relative evaporation rate (butylacetate=1) : No data available Melting point : Not applicable

Freezing point :  $0 \, ^{\circ} \mathrm{C}$ Boiling point :  $100 \, ^{\circ}$ 

: No data available Flash point : No data available Auto-ignition temperature : No data available Decomposition temperature Flammability (solid, gas) : Non flammable. No data available Vapour pressure Relative vapour density at 20 °C : No data available : No data available Relative density 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 : No data available
Oxidising properties : No data available
Explosive limits : No data available

#### 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) : May be harmful if swallowed (Based on available data, the classification criteria are not met)

Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified
Additional information : No data available

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)
Ckin correction/irritation	Clightly instant but not relevant for elegation (Not applicable)

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%[
Pesniratory or skin sensitisation	Not classified

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 : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short-term

(acute)

: Not classified

Hazardous to the aquatic environment, long-term

(chronic)

: Not classified

Not rapidly degradable

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

### **Fortfix Flueseal**

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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### **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
NOT SUBJECT	NOT SUBJECT	NOT SUBJECT	NOT SUBJECT	
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shippin	g name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard	class(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			
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information	n available			,

#### 14.6. Special precautions for user

Special transport precautions : Do not empty into drains

**Overland transport** 

Transport regulations (ADR) : Not subject

Transport by sea

No data available

Air transport

No data available

Inland waterway transport

No data available

Rail transport

No data available

### 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

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#### **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.

#### **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 : Observe restrictions according Act on the Protection of Working Mothers (MuSchG).

Observe restrictions according Act on the Protection of Young People in Employment

(JArbSchG).

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 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

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	

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Abbreviations and acr	ronyms:
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	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
PBT	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.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
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.