

**MATERIAL SAFETY DATA SHEET**

Product name	Quelfire QF1 Fire Protection Compound
Product Code(s)	QF1
Revision Date	01/01/2021
Revision number	02

**Section 1: Identification of the substance/mixture and of the company / undertaking**

1.1. Product identifier

Product name	Quelfire QF1 Fire Protection Compound
Product Code	QF1

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

Main Applications – non exhaustive list	Passive Fire stopping mortar infill for service penetrations
---	--

1.3. Details of the supplier of the safety data sheet

Company Name	Quelfire Limited Springvale Industrial Estate Millbuck Way Sandbach CW11 3HT
Tel	0161 928 7308
Fax	0161 924 1340
Email	<a href="mailto:technical@quelfire.co.uk">technical@quelfire.co.uk</a>

1.4. Emergency telephone number


Emergency telephone number	0161 928 7308 (Office hours only)
----------------------------	-----------------------------------

**Section 2: Hazards Identification**

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]	<p><b>Hazard Categories:</b> Skin Corrosion/ irritation: Skin Irrit. 2 Serious eye damage/ eye irritation: Eye Da. 1</p> <p><b>Hazard Statements:</b> Causes skin irritation Causes serious eye damage.</p>
---	---

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 [CLP]	<p><b>Hazard components for labelling</b> – Portland Cement</p> <p><b>Signal word:</b> Danger</p> <p><b>Pictograms:</b></p> 
--	---

**MATERIAL SAFETY DATA SHEET**

	<p><b>Hazard Statements:</b></p> <p>H315 – Causes skin irritation H318 – Causes serious eye damage</p> <p><b>Precautionary statements:</b></p> <p>P101 – if medical advice is needed, have product container or label at hand. P102 – Keep out of reach of children. P103 – Read label before use P280 – Wear protective gloves/ protective clothing/ eye protection/ face protection. P302+P352 – IF ON SKIN: wash with plenty of soap and water. P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P315 – Get immediate medical attention/ advice. P332+P313 – If skin irritation occurs: Get medical attention/ advice. P362+P364 – Take off contaminated clothing and wash it before reuse.</p> <p><b>Additional advice on labelling:</b></p> <p>The product is labelled in accordance with Regulation (EC) no. 1272/2008 (GHS).</p>
--	--

2.3. Other hazards

Adverse physicochemical, human health and environmental effects	<p>According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT/ vPvB substance.</p> <p>Dust particles, like other inert materials, may mechanically irritating the eyes. May cause irritation of the respiratory tract. Aqueous solution is alkaline. May cause eye/ skin irritation.</p> <p>The preparation is low in chromate because the level of sensitizing chromium (VI) is reduced by additives to less than 2 ppm in the cement content of the ready-to-use mortar. Prerequisite for the effectiveness of the chromate reduction is the proper storage and observance of the expiry date (see point 7.2). in case of improper storage (ingress of moisture) or superimposition, the contained chromate reducer may lose its effectiveness.</p>
---	--

**Section 3: Composition/information on ingredients**

3.1. Substances

Name	Product Identifier	%	EC No.	GHS Classification
Portland Cement	(CAS-No.) 65997-15-1	10-25	266-043-4	Skin Irrit 2, Eye Dam 1, STOT SE 3; H315, H318, H335

3.2. Impurities

Not relevant
--------------

**Section 4: First aid measures**

4.1. Description of first aid measures

General Information	Water forms corrosive alkaline solutions. (pH 11-11.5) – alkaline reacts with water and becomes solid. Remove contaminated clothing immediately and dispose of safely. Ensure adequate ventilation. Provide appropriate exhaust ventilation at places where dust is formed. Avoid dust deposits.
Skin contact	Remove contaminated soaked clothing immediately. In case of contact with the skin wash off immediately with plenty of water. Consult a doctor if skin irritation persists.

## MATERIAL SAFETY DATA SHEET

Eye contact	Rinse immediately with plenty of lukewarm water, also under the eyelids, for at least 15 minutes. Do not rub the eyes – contains inorganic fillers, which irritate the eyes mechanically like other inert materials. Rinse thoroughly with plenty of water. Consult a doctor if skin irritation persists.
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse out the mouth and give plenty of water to drink. Consult a physician.
Inhalation	Take affected person into fresh air. Consult a physician. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

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

Causes skin irritation.  
Causes serious eye damage.  
Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough. Dust particles, like other inert materials, are mechanically irritating to the eyes. May cause irritation of the respiratory tract.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptoms

## Section 5: Fire-Fighting measures

### 5.1. Extinguishing media

Suitable Extinguishing Media	Product itself does not burn. Use firefighting measures that suit the environment and products stored. Foam, CO <sub>2</sub> , Dry chemical, water-spray
------------------------------	---

### 5.2. Special hazards arising from the substance or mixture

None

### 5.3. Advice for fire-fighters

Advice for fire-fighters	In case of fire, wear suitable respiratory equipment with positive air supply. <b>Additional information:</b> Knock down dust with a water spray jet. Fire residues and contaminated firefighting water must be disposed of in accordance with local regulations.
--------------------------	---

## Section 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes, skin or mucous membrane. Avoid dust formation. Do not breathe dust. Ensure adequate ventilation, especially in confined areas.

### 6.2. Environmental precautions

Do not discharge large amounts into drains or bodies of water. Inform competent authority about release into sewage, ground or into waters.

### 6.3. Methods and materials for containment and cleaning up

Clean-up procedures	Pick up mechanically, avoiding dust and dispose in suitable recipients. Use chemical neutralizers.
---------------------	--

### 6.4. Reference to other sections

Refer to section 8 'Exposure controls/ personal protection' and section 13 'Disposal Considerations'

## MATERIAL SAFETY DATA SHEET

### Section 7: Handling and storage

#### 7.1. Precautions for safe handling

Handling requirements	<p>No special measures necessary if used correctly.</p> <p>Provide appropriate exhaust ventilation at machinery and not at places where dust can be generated. Ensure adequate ventilation, especially in confined areas. Avoid the formation of duct.</p> <p>Avoid contact with skin, eyes and clothing.</p> <p>Take the usual precautions when handling chemicals. When using do not eat, drink or smoke.</p>
-----------------------	---

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

Storage conditions	<p>Keep packaging closed when not in use.</p> <p>Protect from moisture</p> <p>Store in a dry, cool and well-ventilated place.</p> <p>Keep only in original container.</p>
--------------------	---

#### 7.3. Specific end use(s)

Specific end use(s)	See identified use in section 12.
---------------------	-----------------------------------

### Section 8: Exposure controls/personal protection

#### 8.1. Control parameters

CAS No.	Substance	ppm	Mg/m <sup>3</sup>	Category	Origin
65997-15-1	Portland Cement, respirable dust	-	4	TWA (8h)	WEL

#### 8.2. Exposure controls

Engineering measures	Ensure there is sufficient ventilation of the area, especially in confined spaces
Protective and hygiene measures	Take the usual precautions when handling chemicals. Clean skin thoroughly after working. Use barrier skin cream. Keep away from food, drink and animal feeding stuffs. Remove contaminated clothing immediately and dispose of safely. Wash hands before breaks and at the end of workday. Avoid contact with the skin and the eyes. At work do not eat, drink, smoke or take drugs.
Respiratory protection	In case of prolonged exposure to airborne dust concentrations, wear dust mask Type P2 or above.
Hand protection	Chemical-resistant gloves, appropriate safety gloves for the site. Follow the recommendations of the glove manufacturer for the breakthrough properties especially for the workplace conditions involving mechanical stress and contact duration. Wash hands at the end of each work session.
Eye protection	Tightly fitting goggles. Use equipment for eye protection tested and approved under appropriate standards.
Skin protection	Protective clothing

#### Personal protective equipment symbol(s):



#### Environmental exposure controls:

Avoid release to the environment.

**MATERIAL SAFETY DATA SHEET**

**Section 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

State	Powder
Appearance	Grey
Odour	Odourless
Odour threshold	Not applicable
pH	Not applicable
Melting point	Not applicable
Initial boiling point and boiling range	Not applicable
Flash point	Not applicable
Sustaining combustion	Not applicable
Flammability: solid	Not applicable
Explosive properties	The product is not explosive
Lower explosion limits	Not applicable
Upper explosion limits	Not applicable
Ignition temperature	No data available
Auto-ignition temperature: solid	No data available
Decomposition temperature	No data available
Oxidizing properties: not fire promoting	No data available
Vapour pressure	Not applicable
Density	No data available
Water solubility	Slightly soluble
Solubility in other solvents	No data available
Partition coefficient	No data available
Viscosity/ dynamic	Not applicable
Viscosity/ kinematic	Not applicable

9.2. Other information

Solid content – 100%
No data available

**Section 10: Stability and reactivity**

10.1. Reactivity

Reactivity with the intended use is not associated with any hazards
---

10.2. Chemical stability

Stable under normal conditions.
---------------------------------

10.3. Possibility of hazardous reactions

No hazardous reactions
------------------------

10.4. Conditions to avoid

Protect from moisture
-----------------------

**MATERIAL SAFETY DATA SHEET**

10.5. Incompatible materials

Strong acids, strong oxidizing agents

10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

**Section 11: Toxicological information**

11.1. Information on toxicological effects

Acute toxicity	Based on available data, the classification criteria are not met.
Skin corrosion/ irritation	Causes skin irritation.
Serious eye damage/ irritation	Causes serious eye damage
Respiratory Irritation	Inhalation of duct may cause shortness of breath, tightness of the chest, a sore throat and cough.
Skin Irritation	Based on available data, the classification criteria are not met. Repeated or prolonged skin contact may cause skin irritation and/ or dermatitis and sensitization of susceptible persons.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	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

**Section 12: Ecological information**

12.1. Toxicity

No data available

12.2. Persistence and degradability

Methods for the determination of biodegradability are not applicable to inorganic substances. Inorganic product.

12.3. Bioaccumulative potential

There is no indication of bioaccumulation potential

12.4. Mobility in soil

Not established

12.5 Results of PBT and vPvB assessment

According to regulation (EC) No 907/2006 (REACH) none of the substances, contained in this product are a PBT/ vPvB substance.

12.6. Other adverse effects

No specific adverse effects known

## MATERIAL SAFETY DATA SHEET

### Section 13: Disposal considerations

#### 13.1. Waste treatment methods

Regional legislation (waste)	Disposal must be done according to official regulations.
Waste treatment methods	<p>Dispose of contents/ container in accordance with licensed collector's sorting instructions.</p> <p>Should not be disposed of with household waste.</p> <p>Do not empty into drains.</p> <p>Wet the leaked product with water and allow to solidify on air.</p> <p><b>List of wastes code – residues/ unused products:</b></p> <p>170101 – Construction and demolition wastes (including excavated soil from contaminated sites); concrete, bricks, tiles and ceramics: concrete</p> <p><b>List of wastes code – contaminated packaging:</b></p> <p>150101 – waste packaging; absorbents, wiping cloths, filter materials and protective clothing not otherwise specified; packaging (including separately collected municipal packaging waste); paper and cardboard packaging.</p> <p><b>Contaminated packaging:</b></p> <p>Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of like the product.</p> <p>Cleaning agent: water</p>

### Section 14: Transport information

#### 14.1. UN number

Not relevant

#### 14.2. UN proper shipping name

Not relevant

#### 14.3. Transport hazard classes

In accordance with ADR/ RID/ IMDG/ IATA/ ADN	
ADR	Not Applicable
RID	Not Applicable
IMDG	Not Applicable
IATA	Not Applicable
ADN	Not Applicable

#### 14.5. Environmental hazards

No

#### 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

## MATERIAL SAFETY DATA SHEET

14.7. Transport in bulk according to annex II of MARPOL 73/78 and the IBC Code

Not relevant
--------------

### Section 15: Regulatory information

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

15.1.1. EU-Regulations

2004/42/EC (VOC):	0g/l
Information according to 2012/18/EU (SEVESO III):	Not relevant

15.1.2 National Regulations

Slightly water contaminating
------------------------------

15.2. Chemical Safety Assessment

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
CAS-No.	Chemical Abstract Service Number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 272/2008
EN	European Standard
GHS	Globally Harmonized System of Classification, Labelling and Packaging of Chemicals
ICAO	International Civil Aviation Organisation
IMDG-Code	International Maritime Code for dangerous goods
IATA	International Air Transport Association
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 {CLP}	
---	--

Skin Irrit. 2; H315	Calculation method
---------------------	--------------------

Eye Dam. 1; H318	Calculation method
------------------	--------------------

Relevant H and EUH statements (number and full text)	
--	--

H315	Causes skin irritation.
------	-------------------------

H318	Causes serious eye damage.
------	----------------------------



## MATERIAL SAFETY DATA SHEET

H335	May cause respiratory damage.
Data Sources	Regulation (EC) No1272/2008 of the European parliament and the council of 16 <sup>th</sup> December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing directives 67/548/EC, and amending Regulation (EC) No 1907/2006
Legal disclaimer	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.