

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

1.1. Product identifier

Product form	: Mixture
Product name	: Cafco MANDOLITE® CP2
Type of product	: Dry powder
Product group	: Fire protective spray.

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

1.2.1. Relevant identified uses

Main use category	: Professional use
Use of the substance/mixture	: Fire protection in buildings

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Promat Fire Protection LLC
 Plot No 597-921, Dubai Investment Park 2,
 Dubai - United Arab Emirates
 T +97148853070 - F +97148853588
promatmiddleeast@promat.co.uk - www.promatfp.ae

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital, Guy's & St Thomas' Hospital Trust	Dudley Road B18 7QH Birmingham	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)	
United Kingdom	National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Wolfson Unit	Penarth CF64 2XX Cardiff	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)	
United Kingdom	NPIS Edinburgh (Scottish Poisons Information Bureau) Royal Infirmary of Edinburgh, Centre Hospitalier Universitaire Bab el Oued	51 Little France Crescent EH16 4SA Edinburgh	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Centre Hospitalier Universitaire de Constantine	Avonley Road SE14 5ER London	0870 243 2241	
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours)	

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 1	H318
Sensitisation — Skin, Category 1	H317
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	H335

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

May cause respiratory irritation. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage.

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2.2. Label elements

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

Hazard pictograms (CLP) :



GHS05

GHS07

Signal word (CLP) :

Danger

Hazardous ingredients :

Portland cement; glyoxal; sulfuric acid, mono-C12-18-alkyl esters, sodium salts

Hazard statements (CLP) :

H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H335 - May cause respiratory irritation

Precautionary statements (CLP) :

P280 - Wear protective clothing, protective gloves, eye protection, face protection
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER, a doctor
P302+P352 - IF ON SKIN: Wash with plenty of water and soap
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P261 - Avoid breathing dust, mist, spray
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P312 - Call a doctor, a POISON CENTER if you feel unwell
P501 - Dispose of contents/container to an approved waste disposal plant

Extra phrases :

Skin contact with wet cement, fresh concrete or mortar may cause irritation, dermatitis or burns. May cause damage to products made of aluminium or other non-noble metals

2.3. Other hazards

Other hazards not contributing to the classification :

Depending upon the source of the Portland cement, the product could be contaminated with chromium VI. - In several countries, the soluble chromium VI is legally limited to 0.0002% of the total dry weight. If soluble chromium VI is present in the Portland cement above the 0.0002%, a reduction agent has been added to it to keep the content of soluble chromium VI under the 0,0002%. The activity of this reduction agent is limited in time, what limits the shelf life of the product. The product should be used within 1 year after its production date. - If the soluble chromium VI is above the 0.0002% (European Regulation on CLP No 1272/2008): EUH203: Contains chromium (VI). May produce an allergic reaction.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Vermiculite	(CAS No) 1318-00-9 (EC no) 310-127-6	< 60	Not classified
Portland cement	(CAS No) 65997-15-1 (EC no) 266-043-4	30 - 40	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335
Calcium carbonate	(CAS No) 1317-65-3 (EC no) 215-279-6	< 20	Not classified
Amorphous silica substance with national workplace exposure limit(s) (GB, IE)	(CAS No) 112926-00-8 (EC no) 231-545-4 (REACH-no) 01-2119379499-16	0 - 1	Not classified
sulfuric acid, mono-C12-18-alkyl esters, sodium salts	(CAS No) 68955-19-1 (EC no) 273-257-1 (REACH-no) 01-2119490225-39	0 - 0,25	Flam. Sol. 2, H228 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Chronic 3, H412
glyoxal	(CAS No) 107-22-2 (EC no) 203-474-9 (EC index no) 605-016-00-7 (REACH-no) 01-2119461733-37	< 0,005	Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Muta. 2, H341 STOT SE 3, H335

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Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: In case of allergy, inflammation or irritation, seek medical advice.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Rinse throat with water and blow nose to evacuate dust. If nose or airways become inflamed, seek medical advice.
First-aid measures after skin contact	: Remove all dust as much as possible. Take off contaminated clothing. Rinse the skin immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention. In case of allergy, seek medical advice.
First-aid measures after eye contact	: Do not rub the eye. Rinse the eye out with plenty of clean water for at least 15 minutes. If eye irritation or inflammation persists, seek medical advice. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: In case of significant ingestion, rinse mouth with plenty of water. Do not induce vomiting, seek medical attention.

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

Symptoms/injuries after inhalation	: May cause irritation to the respiratory tract and to other mucous membranes.
Symptoms/injuries after skin contact	: The Portland cement components may lead to transient irritation of skin, eyes or respiratory system. When moistened by water or sweat, the Portland cement component may lead to skin inflammation, contact dermatitis or even delayed onset burns due to high alkalinity. May cause an allergic skin reaction.
Symptoms/injuries after eye contact	: Eye contact with dust may lead to transient eye irritation or inflammation. Serious damage to eyes.
Symptoms/injuries after ingestion	: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

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 : All extinguishing media can be used.

5.2. Special hazards arising from the substance or mixture

Reactivity in case of fire	: Product is not explosive. The product is non-combustible.
Hazardous decomposition products in case of fire	: Toxic fumes may be released. Carbon oxides (CO, CO ₂).

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 breathing dusts. Avoid eye and skin contact. See sections 7 and 8.

6.1.1. For non-emergency personnel

Emergency procedures : Do not breathe dust. Avoid contact with skin and eyes. Dampen down any dust or use vacuum cleaner with correct filter.

Measures in case of dust release : Prevent spread of dust.

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

Do not allow entry to drains, sewers, water courses or soil. Dampen down any dust before putting into skips or use vacuum cleaner with correct filter.

6.3. Methods and material for containment and cleaning up

For containment	: Use closed containers to avoid dust release.
Methods for cleaning up	: Dampen down any dust or use vacuum cleaner with correct filter. Minimize generation of dust.
Other information	: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

See sections 7, 8 and 11.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Both local exhaust and general room ventilation are usually required. By generation of dust during processing, the regulatory Occupational Exposure Limits or Workplace Exposure Limits in the UK, for total and respirable dust must be respected. Work in a well ventilated area. Use tools with appropriate dust exhaust equipment. Collect dust with a vacuum cleaner or soak with water before sweeping up. Use always respiratory protective equipment when exposures are likely or can be foreseen to exceed the Occupational Exposure Limits or Workplace Exposure Limits in the UK (refer to local regulations). Avoid all unnecessary exposure. Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Ensure prompt removal from eyes, skin and clothing.
- Handling temperature : 5 - 45 °C
- Hygiene measures : 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

- Storage conditions : Keep bags closed when not in use. Keep away from food, drink and animal feeding stuffs. Store in dry, covered and frost proof area. Protect from moisture.
- Incompatible materials : Avoid contact with aluminium.
- Maximum storage period : 12 months The packaging is marked with the packing date, the storage conditions and the storage period appropriate to maintain the activity of the reducing agent and to keep the content of soluble chromium VI below the limit indicated in section 2.
- Storage temperature : 5 - 45 °C

7.3. Specific end use(s)

Fire protection in buildings.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Calcium carbonate (1317-65-3)		
United Kingdom	Local name	Calcium carbonate
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ inhalable dust 4 mg/m ³ respirable 4 mg/m ³ Limestone, respirable 10 mg/m ³ Limestone, total inhalable 4 mg/m ³ Marble, respirable 10 mg/m ³ Marble, total inhalable
Portland cement (65997-15-1)		
United Kingdom	Local name	Portland cement
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ inhalable dust 4 mg/m ³ respirable dust
Amorphous silica (112926-00-8)		
Ireland	Local name	Silica, amorphous total inhalable dust
Ireland	OEL (8 hours ref) (mg/m ³)	6 mg/m ³
Ireland	Amorphous silica (respirable): 2.4 mg/m ³	
United Kingdom	Local name	Silica, amorphous
United Kingdom	WEL TWA (mg/m ³)	2,4 mg/m ³ respirable dust

8.2. Exposure controls

Appropriate engineering controls:

Provide local exhaust or general room ventilation during application and drying.

Hand protection:

Use alkali resistant gloves

Eye protection:

Safety glasses with side shields. Use splash goggles when eye contact due to splashing is possible. Foresee eye cleaning on the workplace

Skin and body protection:

Use loose work clothes with closed sleeves. Preventive skin protection creams can be used, but not after skin contact with the product

Respiratory protection:

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Use appropriate respiratory equipment when exposures are likely or can be foreseen to exceed the Occupational Exposure Limits or Workplace Exposure Limits for the UK (e.g. for exposures up to 10 times the OEL (WEL) use at least a P2 type duct mask. For higher exposure, use a P3 type mask). Respiratory equipment required during spraying



Environmental exposure controls:

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

Other information:

Occupational Exposure Limits / Workplace Exposure Limits for particles not otherwise classified or regulated (nuisance dust):- in UK: Inhalable: 10 mg/m³. Respirable: 4 mg/m³

- in Ireland: Inhalable: 10 mg/m³. Respirable: 4 mg/m³. When manipulating and processing the product, respect Occupational Exposure Limits (OEL) or Workplace Exposure Limits (WEL) for the UK, for inhalable and respirable dust. Check the latest Occupational Exposure Limits (OEL) or Workplace Exposure Limits (WEL) for the UK, for airborne contaminants that are applicable in your country.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Flaky powder.
Colour	: Greyish.
Odour	: odourless.
Odour threshold	: No data available
pH	: No data available
pH solution	: 12 - 12,5 (in aqueous solution).
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
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	: Not applicable
Density	: 360 - 390 kg/m ³ (when sprayed)
Solubility	: Water: Slightly soluble
Log Pow	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable

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. Shelf life is maximum 12 months.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Humidity during storage.

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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. Alkaline mixture.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Calcium carbonate (1317-65-3)	
LD50 oral rat	> 2000 mg/kg
LD50 oral	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 3 mg/l/4h

sulfuric acid, mono-C12-18-alkyl esters, sodium salts (68955-19-1)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LD50 dermal rabbit	> 500 mg/kg

Portland cement (65997-15-1)	
LD50 oral rat	> 2000 mg/kg

glyoxal (107-22-2)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 800 mg/kg bodyweight
LC50 inhalation rat (mg/l)	> 1,3 mg/l/4h

Amorphous silica (112926-00-8)	
LD50 oral rat	> 3100 mg/kg
LD50 dermal rat	> 5000 mg/kg

Skin corrosion/irritation : Cement powder or a mixture of cement with water can cause irritant contact dermatitis, and/or delayed onset of skin burns. These burns can be very serious in prolonged contact with skin

Serious eye damage/irritation : May cause eye irritation or transient inflammation

Respiratory or skin sensitisation : May cause sensitisation of susceptible persons by skin contact

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : May cause respiratory irritation.

Specific target organ toxicity (repeated exposure) : Not classified

Amorphous silica (112926-00-8)	
NOAEL (oral, rat, 90 days)	> 4000 mg/kg bodyweight/day

Aspiration hazard : Not classified

Potential adverse human health effects and symptoms : Inhaling cement dust may aggravate existing respiratory system disease(s) and/or medical conditions such as emphysema or asthma and/or existing skin and/or eye conditions.

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.

Calcium carbonate (1317-65-3)	
LC50 fish 1	10000 mg/l
EC50 Daphnia 1	1000 mg/l
EC50 72h algae (1)	14 mg/l
EC50 72h algae (2)	200 mg/l

sulfuric acid, mono-C12-18-alkyl esters, sodium salts (68955-19-1)	
LC50 fish 1	17 mg/l
EC50 Daphnia 1	15 mg/l
EC50 96h algae (1)	38 mg/l

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sulfuric acid, mono-C12-18-alkyl esters, sodium salts (68955-19-1)	
NOEC chronic fish	1,3571 mg/l
NOEC chronic crustacea	0,88 mg/l

Amorphous silica (112926-00-8)	
LC50 fish 1	10000 mg/l
EC50 Daphnia 1	10000 mg/l

12.2. Persistence and degradability

sulfuric acid, mono-C12-18-alkyl esters, sodium salts (68955-19-1)	
Biodegradation	93 %

12.3. Bioaccumulative potential

sulfuric acid, mono-C12-18-alkyl esters, sodium salts (68955-19-1)	
Log Pow	< -2,1

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Component	
Portland cement (65997-15-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
sulfuric acid, mono-C12-18-alkyl esters, sodium salts (68955-19-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Additional information : Accidental spillage of cement powder in waste water, results in a low increase in the pH. Hydrated cement is a stable material that definitely sets its compounds and makes them insoluble.. Do not allow entry to drains, sewers, water courses or soil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : In case of disposal, harden with water. Dispose the hardened product as concrete waste.
European List of Waste (LoW) code : 10 13 14 - waste concrete and concrete sludge
17 01 01 - concrete

SECTION 14: Transport information

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

ADR	IMDG	IATA	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
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
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 hazards				
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 available				

14.6. Special precautions for user

- Overland transport

No data available

- Transport by sea

No data available

- Air transport

No data available

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- 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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Other information, restriction and prohibition regulations : REGULATION (EC) n° 1907/2006 - REACH - Annex XVII, RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES, 47:
1.- Cement and cement-containing preparations shall not be used or placed on the market, if they contain, when hydrated, more than 0,0002 % soluble chromium VI of the total dry weight of the cement.
2.- If reducing agents are used the packaging of cement or cement-containing preparations shall be legibly and indelibly marked with information on the packing date, as well as on the storage conditions and the storage period appropriate to maintaining the activity of the reducing agent and to keeping the content of soluble chromium VI below the limit indicated in paragraph 1.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:

Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Sol. 2	Flammable solids, Category 2
Muta. 2	Germ cell mutagenicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H228	Flammable solid
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H341	Suspected of causing genetic defects
H412	Harmful to aquatic life with long lasting effects

Safety Data Sheet applicable for regions : GB;IE

SDS EU (REACH Annex II)

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