SAFETY DATA SHEET

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

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

1.1 Product identifier

Product name: FLOWSCREED INDUSTRIAL TOP

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

Identified uses: Manual activities involving hand contact
Widespread use leading to inclusion into/onto article (indoor)
Reserved for industrial and professional use.
Mono-component industrial grouts, mortars and screeds.

Uses advised against: Use of equipment contaminated with Portland cement, will result in flash setting.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Importer/Supplier/Distributor Information

Tremco CPG UK Limited
Coupland Road
WN2 4HT Hindley Green, WIGAN
UK

Telephone: +44 1942251400
Fax: +44 1942251410

Contact person : msds@tremcocpg.com

National Supplier

Tremco CPG UK Limited
Coupland Road
WN2 4HT Hindley Green, WIGAN
UK

Telephone: +44 1942251400
Fax: +44 1942251410

Contact person : www.tremcocpg.eu, uk.info@tremcocpg.com

1.4 Emergency telephone number:

During office hours (Mon-Fri 08:30-17:00 GMT) Tel.: +44 (0) 1942251400. Otherwise, 24h/7d it is recommended to call 111 for NHS 111 (England), NHS 24 (Scotland) and NHS Direct (Wales), or 0845 46 47 (Wales only).

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

Health Hazards

Skin irritation	Category 2	H315: Causes skin irritation.
Serious eye damage	Category 1	H318: Causes serious eye damage.
Skin sensitiser	Category 1	H317: May cause an allergic skin reaction.

2.2 Label elements

Signal Words: Danger

Hazard Statement(s):
H315: Causes skin irritation.
H318: Causes serious eye damage.
H317: May cause an allergic skin reaction.

Precautionary Statements

Prevention:
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P264: Wash face, hands and any exposed skin thoroughly after handling.
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P362+P364: Take off contaminated clothing and wash it before reuse.
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 or doctor/ physician.

Hazardous components which must be listed on the label:

Contains
Calcium Aluminate Cement Clinker
Portland Cement Cr +VI < 2ppm

2.3 Other hazards

PBT/vPvB data
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Endocrine disrupting properties-Toxicity
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Endocrine disrupting properties-Ecotoxicity
The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Quartz (SiO2)	20 - <50%	14808-60-7	238-878-4	Exempt;	No data available.	#
Calcium carbonate	20 - <50%	1317-65-3	215-279-6	No data available.	No data available.	#
Calcium Aluminate Cement Clinker	10 - <20%	65997-16-2	266-045-5	No data available.	No data available.	
dicalcium;disulfate;hydrate	5 - <10%	10034-76-1	231-900-3	01-2119444918-26;	No data available.	#
Portland Cement Cr +VI < 2ppm	3 - <5%	65997-15-1	266-043-4	No data available.	No data available.	#
Aluminium sulfate	0,1 - <1%	10043-01-3	233-135-0	No data available.	No data available.	#

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.
# This substance has workplace exposure limit(s).
This substance is listed as SVHC.

Classification

Chemical name	Classification	Notes
Quartz (SiO2)	Classification: None known.	None.

Calcium carbonate	Classification: None known.	None.
Calcium Aluminate Cement Clinker	Classification: Skin Corr.: 2: H315; Eye Dam.: 1: H318 Acute toxicity, oral: LD 50: 2.000 mg/kg Acute toxicity, inhalation: LC 50: 7,6 mg/l Acute toxicity, dermal: LD 50: > 2.000 mg/kg	None.
dicalcium;disulfate;hydrate	Classification: None known.	None.
Portland Cement Cr +VI < 2ppm	Classification: Skin Corr.: 2: H315; Skin Sens.: 1: H317; Eye Dam.: 1: H318; STOT SE: 3: H335	None.
Aluminium sulfate	Classification: None known. Acute toxicity, oral: LD 50: 6.200 mg/kg Acute toxicity, inhalation: Discriminating dose:: 20 ppm Acute toxicity, dermal: LD 50: > 1.167,5 mg/kg	None.

The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Get medical attention if symptoms occur.

Inhalation: Move to fresh air. Get medical attention if symptoms persist. If breathing stops, provide artificial respiration.

Skin Contact: Remove contaminated clothing and wash the skin thoroughly with soap and water after work. Wash skin thoroughly with soap and water for several minutes.

Eye contact: Rinse immediately with plenty of water. Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if irritation persists after washing.

Ingestion: Immediately rinse mouth and drink plenty of water. Call an ambulance and take these instructions. Do not induce vomiting without medical advice. Rinse mouth thoroughly.

Personal Protection for First-aid Responders: No data available.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: May cause skin and eye irritation.

Hazards: No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: Get medical attention if symptoms occur.

SECTION 5: Firefighting measures

General Fire Hazards: No unusual fire or explosion hazards noted. Wear self-contained breathing apparatus and protective clothing.

5.1 Extinguishing media

Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding materials. Carbon dioxide (CO2) Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire. Alcohol, Alcohol based solutions, any other media not listed above.

5.2 Special hazards arising from the substance or mixture: During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters

Special fire-fighting procedures: No data available.

Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment.

6.1.1 For non-emergency personnel: In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

6.1.2 For emergency responders: No data available.

6.2 Environmental precautions: Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.

6.3 Methods and material for containment and cleaning up: Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

6.4 Reference to other sections: For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical Measures: No data available.

Local/Total ventilation: No data available.

Safe handling advice: Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Contact avoidance measures: No data available.

7.2 Conditions for safe storage, including any incompatibilities

Safe storage conditions: Store away from incompatible materials. Store in original tightly closed container.

Safe packaging materials: No data available.

7.3 Specific end use(s): No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Chemical name	Type	Form of exposure	Exposure Limit Values		Source
Quartz (SiO2)	TWA	Respirable		0,1 mg/m3	EH40 WEL (2007)
Calcium carbonate	TWA	Inhalable dust		10 mg/m3	EH40 WEL (2007)
	TWA	Respirable dust		4 mg/m3	EH40 WEL (2007)
	TWA	Respirable		4 mg/m3	EH40 WEL (2007)
	TWA	Inhalable		10 mg/m3	EH40 WEL (2007)
dicalcium;disulfate;hydrate	TWA	Respirable dust		4 mg/m3	EH40 WEL (01 2020)
	TWA	Inhalable dust		10 mg/m3	EH40 WEL (01 2020)
Portland Cement Cr +VI < 2ppm	TWA	Inhalable dust		10 mg/m3	EH40 WEL (2007)
	TWA	Respirable dust		4 mg/m3	EH40 WEL (2007)
Aluminium sulfate	TWA			2 mg/m3	EH40 WEL (2007)

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

DNEL-Values

Remarks: DNEL-Values

Critical component	Type	Route of Exposure	Health Warnings	Remarks
Calcium Aluminate Cement Clinker	Workers	Inhalation	Systemic, long-term; 2,5 mg/m3	Repeated dose toxicity
	Workers	Inhalation	Systemic, short-term; 5 mg/m3	
Silicon dioxide	Workers	Eyes	Local effect;	Low hazard (no threshold derived)
	General population	Eyes	Local effect;	Low hazard (no threshold derived)
2-[2-(2-butoxyethoxy)ethoxy]ethanol	General population	Dermal	Systemic, long-term; 502,5 mg/kg	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 12,5 mg/kg	Repeated dose toxicity
	General population	Dermal	Local, long-term; 2,823 mg/cm2	Repeated dose toxicity
	Workers	Inhalation	Local, long-term; 30,5 mg/m3	Repeated dose toxicity
	General population	Dermal	Local, short-term; 4,173 mg/cm2	Acute toxicity
	General population	Inhalation	Local, long-term; 15,252 mg/m3	Repeated dose toxicity
	Workers	Dermal	Local, long-term; 5,65 mg/cm2	Repeated dose toxicity
	Workers	Dermal	Local, short-term; 8,35 mg/cm2	Acute toxicity
	General population	Inhalation	Local, short-term; 48 mg/m3	Acute toxicity
	Workers	Inhalation	Local, short-term; 96 mg/m3	Acute toxicity
	Workers	Inhalation	Systemic, long-term; 24 mg/m3	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 50,25 mg/kg	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 12 mg/m3	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 1005 mg/kg	Repeated dose toxicity
	Workers	Dermal	Systemic, short-term; 400 mg/kg	Acute toxicity
	General population	Inhalation	Systemic, short-term; 48 mg/m3	Acute toxicity
	General population	Dermal	Systemic, short-term; 200 mg/kg	Acute toxicity
	General population	Oral	Systemic, short-term; 103,4 mg/kg	Acute toxicity
	Workers	Inhalation	Systemic, short-term; 96 mg/m3	Acute toxicity
	Workers	Eyes	Local effect;	High hazard (no threshold derived)
	General population	Eyes	Local effect;	High hazard (no threshold derived)
Aluminium sulfate	Workers	Dermal	Systemic, long-term; 1,71 mg/kg	Repeated dose toxicity
	General population	Eyes	Local effect;	Medium hazard (no threshold derived)
	General population	Inhalation	Systemic, long-term; 3,3 mg/m3	Neurotoxicity

	Workers	Dermal	Systemic, long-term; 3,8 mg/kg	Neurotoxicity
	General population	Inhalation	Systemic, long-term; 1,5 mg/m3	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 1,9 mg/kg	Neurotoxicity
	General population	Oral	Systemic, long-term; 54,4 mg/kg	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 3 mg/m3	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 13,4 mg/m3	Neurotoxicity
	Workers	Dermal	Systemic, long-term; 2,72 mg/kg	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 1,9 mg/kg	Neurotoxicity
	General population	Oral	Systemic, long-term; 34,2 mg/kg	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 0,855 mg/kg	Repeated dose toxicity
	Workers	Eyes	Local effect;	Medium hazard (no threshold derived)
	General population	Dermal	Systemic, long-term; 1,36 mg/kg	Repeated dose toxicity
	Workers	Inhalation	Systemic, short-term; 2 mg/m3	Acute toxicity
	Workers	Dermal	Systemic, short-term; 46,7 mg/kg	Acute toxicity
	General population	Dermal	Local, long-term; 0,441 mg/cm2	Repeated dose toxicity
	General population	Dermal	Local, short-term; 0,441 mg/cm2	Acute toxicity
	General population	Dermal	Systemic, short-term; 23,35 mg/kg	Acute toxicity
	General population	Inhalation	Systemic, short-term; 1 mg/m3	Acute toxicity
	General population	Inhalation	Local, short-term; 1 mg/m3	Acute toxicity
	Workers	Dermal	Local, long-term; 0,882 mg/cm2	Repeated dose toxicity
	Workers	Dermal	Local, short-term; 0,882 mg/cm2	Repeated dose toxicity
	Workers	Inhalation	Local, short-term; 2 mg/m3	Acute toxicity
	Workers	Inhalation	Local, long-term; 3 mg/m3	Repeated dose toxicity
	Workers	Dermal	Local, long-term; 9,2 mg/cm2	Repeated dose toxicity
	Workers	Inhalation	Local, short-term; 10 mg/m3	Acute toxicity
	Workers	Dermal	Local, short-term; 9,2 mg/cm2	Acute toxicity
	General population	Dermal	Local, short-term; 4,6 mg/cm2	Acute toxicity
	General population	Inhalation	Local, long-term; 1,5 mg/m3	Repeated dose toxicity
	General population	Dermal	Local, long-term; 4,6 mg/cm2	Repeated dose toxicity
	General population	Inhalation	Local, short-term; 5 mg/m3	Acute toxicity
	Workers	Inhalation	Systemic, short-term; 10 mg/m3	Acute toxicity
	General population	Inhalation	Systemic, short-term; 5 mg/m3	Acute toxicity

	General population	Dermal	Systemic, short-term; 233,5 mg/kg	Acute toxicity
	General population	Oral	Systemic, short-term; 92,4 mg/kg	Acute toxicity
	Workers	Dermal	Systemic, short-term; 467 mg/kg	Acute toxicity
lithium carbonate	Workers	Dermal	Systemic, short-term; 100 mg/kg	Acute toxicity
	Workers	Dermal	Systemic, long-term; 64,3 mg/kg	Repeated dose toxicity
	General population	Dermal	Systemic, short-term; 50 mg/kg	Acute toxicity
	General population	Inhalation	Systemic, short-term; 28,92 mg/m3	Acute toxicity
	General population	Inhalation	Systemic, long-term; 9,64 mg/m3	Repeated dose toxicity
	General population	Oral	Systemic, short-term; 19,23 mg/kg	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 10 mg/m3	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 64,3 mg/kg	Repeated dose toxicity
	Workers	Inhalation	Systemic, short-term; 30 mg/m3	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 6,43 mg/kg	Repeated dose toxicity
	General population	Eyes	Local effect;	Medium hazard (no threshold derived)
	Workers	Eyes	Local effect;	Medium hazard (no threshold derived)
Cement, alumina, chemicals	Workers	Inhalation	Systemic, long-term; 2,5 mg/m3	Repeated dose toxicity
	Workers	Inhalation	Systemic, short-term; 5 mg/m3	
p-toluenesulphonic acid, containing more than 5 % H2SO4	General population	Dermal	Systemic, long-term; 2,5 mg/kg	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 2,5 mg/kg	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 4,35 mg/m3	Repeated dose toxicity
	General population	Eyes	Local effect;	High hazard (no threshold derived)
1,2-benzothiazol-3-one	General population	Dermal	Systemic, long-term; 0,345 mg/kg	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 1,2 mg/m3	Repeated dose toxicity
	Workers	Eyes	Local effect;	Medium hazard (no threshold derived)
	Workers	Dermal	Systemic, long-term; 0,966 mg/kg	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 6,81 mg/m3	Repeated dose toxicity
	General population	Eyes	Local effect;	Medium hazard (no threshold derived)
Tin sulfate	Workers	Dermal	Systemic, short-term; 2,46 mg/kg	Repeated dose toxicity
	Workers	Inhalation	Local, long-term; 0,18 mg/m3	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 1,53 mg/m3	Repeated dose toxicity
	General population	Inhalation	Systemic, short-term; 2,41 mg/m3	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 0,88 mg/kg	Repeated dose toxicity

	General population	Dermal	Systemic, short-term; 0,88 mg/kg	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 8,67 mg/m3	Repeated dose toxicity
	Workers	Dermal	Systemic, long-term; 2,46 mg/kg	Repeated dose toxicity
	Workers	Inhalation	Systemic, short-term; 3,241 mg/m3	Repeated dose toxicity
	General population	Inhalation	Local, long-term; 0,046 mg/m3	Repeated dose toxicity
	General population	Dermal	Systemic, long-term; 0,88 mg/kg	Repeated dose toxicity
	Workers	Eyes	Local effect;	Medium hazard (no threshold derived)
	General population	Eyes	Local effect;	Medium hazard (no threshold derived)

PNEC-Values

Remarks: PNEC-Values

Critical component	Environmental compartment	PNEC-Values	Remarks
Calcium Aluminate Cement Clinker	Aquatic (freshwater)	260 mg/l	
	Sewage treatment plant	10 mg/l	
2-[2-(2-butoxyethoxy)ethoxy]ethanol	Predator	111 mg/kg	Oral
	Sediment (freshwater)	7,7 mg/kg	
	Sediment (marine water)	0,77 mg/kg	
	Sewage treatment plant	199,5 mg/l	
	Soil	0,47 mg/kg	Soil
	Sediment (marine water)	1,111 mg/kg	
	Sewage treatment plant	200 mg/l	
	Aquatic (freshwater)	2 mg/l	
	Aquatic (marine water)	142,57 mg/l	
	Sediment (freshwater)	11,115 mg/kg	
	Predator	525,5 mg/kg	Oral
	Aquatic (freshwater)	100 mg/l	
	Aquatic (marine water)	0,2 mg/l	
	Soil	11,51 mg/kg	Soil
Aluminium sulfate	Air	2 mg/m3	
	Predator	150 mg/kg	Oral
	Soil	58 mg/kg	Soil
	Sediment (marine water)	31,4 mg/kg	
	Aquatic (marine water)	64 mg/l	
	Sewage treatment plant	60,2 mg/l	
	Sediment (freshwater)	10 mg/kg	
	Aquatic (freshwater)	4,5 mg/l	
Citric acid	Soil	33,1 mg/kg	
	Sediment (marine water)	3,46 mg/kg	
	Sediment (freshwater)	34,6 mg/kg	
	Sewage treatment plant	1000 mg/l	
	Aquatic (marine water)	0,044 mg/l	
	Aquatic (freshwater)	0,44 mg/l	
lithium carbonate	Aquatic (freshwater)	9 mg/l	
	Sewage treatment plant	122,2 mg/l	
	Aquatic (marine water)	0,9 mg/l	
	Soil	44,11 mg/kg	Soil
	Sediment (freshwater)	238,4 mg/kg	
	Sediment (marine water)	23,84 mg/kg	
Cement, alumina, chemicals	Aquatic (freshwater)	260 mg/l	
	Sewage treatment plant	10 mg/l	
p-toluenesulphonic acid, containing more than 5 % H2SO4	Aquatic (freshwater)	0,073 mg/l	

	Aquatic (marine water)	0,007 mg/l	
	Sediment (freshwater)	0,35 mg/kg	
	Soil	0,028 mg/kg	Soil
	Sediment (marine water)	0,035 mg/kg	
	Sewage treatment plant	65 mg/l	
1,2-benzothiazol-3-one	Sediment (marine water)	0,00499 mg/kg	
	Aquatic (marine water)	0,403 µg/l	
	Soil	3 mg/kg	Soil
	Sediment (freshwater)	0,0499 mg/kg	
	Sewage treatment plant	1,03 mg/l	
	Aquatic (freshwater)	4,03 µg/l	
Tin sulfate	Aquatic (freshwater)	0,032 mg/l	
	Sediment (marine water)	1188,9 mg/kg	
	Sediment (freshwater)	11889 mg/kg	
	Sewage treatment plant	83,4 mg/l	
	Soil	0,136 mg/kg	Soil
	Aquatic (marine water)	3,2 µg/l	

8.2 Exposure controls

Appropriate Engineering Controls: Mechanical ventilation or local exhaust ventilation may be required. Observe good industrial hygiene practices. Observe occupational exposure limits and minimise the risk of inhalation of dust.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection: Wear suitable goggles tested to EN ISO 16321.

Hand Protection: Material: Nitrile butyl rubber (NBR).
Additional Information: Use suitable protective gloves if risk of skin contact.

Skin and Body Protection: Chemical resistant clothing Long sleeves Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor. Wear suitable respiratory equipment tested to EN 143.

Hygiene measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

Environmental Controls: Ensure adequate ventilation when using.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state: solid

Form: No data available.

Colour:	Grey
Odour:	Characteristic
Odour Threshold:	No data available.
Melting Point:	No data available.
Boiling Point:	255 °C
Flammability:	No data available.
Upper/lower limit on flammability or explosive limits	
Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.
Flash Point:	No data available.
Auto-ignition temperature:	No data available.
Decomposition Temperature:	No data available.
pH:	No data available.
Viscosity	
Dynamic viscosity:	No data available.
Kinematic viscosity:	No data available.
Flow Time:	No data available.
Solubility(ies)	
Solubility in Water:	No data available.
Solubility (other):	No data available.
Dissolution Rate:	No data available.
Partition coefficient (n-octanol/water):	No data available.
Dispersion Stability:	No data available.
Vapour pressure:	No data available.
Relative density:	No data available.
Density:	1,7 g/cm3
Bulk density:	No data available.
Vapour density (air=1):	No data available.

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1	**Reactivity:**	Stable under normal temperature conditions and recommended use.
10.2	**Chemical stability:**	Material is stable under normal conditions.
10.3	**Possibility of hazardous reactions:**	None under normal conditions.
10.4	**Conditions to avoid:**	Avoid heat or contamination.
10.5	**Incompatible Materials:**	Contact with acids.
10.6	**Hazardous decomposition products:**	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (list all possible routes of exposure)

Oral

Product: ATEmix, 13.371 mg/kg

Components:

Calcium Aluminate Cement Clinker	LD 50, Rat, 2.000 mg/kg, 1 = reliable without restrictions LD 50, Rat, Female, > 2.000 mg/kg, 1 = reliable without restrictions, according to specific guideline, Key study
Aluminium sulfate	LD 50, Mouse, Female, Male, 6.200 mg/kg, 2 = reliable with restrictions, according to specific guideline, Key study LD 50, Rat, Female, > 2.000 mg/kg, 1 = reliable without restrictions, according to specific guideline, Key study LD 50, Rat, Male, 5.000 mg/kg, 2 = reliable with restrictions, according to specific guideline, Key study LD 50, Mouse, Female, Male, > 4.618 mg/kg, 1 = reliable without restrictions, according to specific guideline, Key study LD 50, Mouse, Female, Male, 253 mg/kg, 1 = reliable without restrictions, according to specific guideline, Key study LD 50, Rat, > 5.000 mg/kg, 1 = reliable without restrictions, according to specific guideline, Key study LD 50, Mouse, Female, Male, 6.200 mg/kg, 1 = reliable without

restrictions, according to specific guideline, Key study

Dermal

Product: Not classified for acute toxicity based on available data.

Components:

Calcium Aluminate Cement Clinker	LD 50, Rat, > 2.000 mg/kg, 1 = reliable without restrictions, Read-across from supporting substance (structural analogue or surrogate), Key study
Aluminium sulfate	LD 50, Pig, > 1.167,5 mg/kg, 1 = reliable without restrictions, according to specific guideline LD 50, Rabbit, > 1.167,5 mg/kg, 1 = reliable without restrictions, according to specific guideline LD 50, Rabbit, > 5.000 mg/kg, 2 = reliable with restrictions, according to specific guideline NOAEL, Mouse, 2.335 mg/kg, 1 = reliable without restrictions, according to specific guideline NOAEL, Mouse, > 233,5 mg/kg, 1 = reliable without restrictions, according to specific guideline NOAEL, Rabbit, > 233,5 mg/kg, 1 = reliable without restrictions, according to specific guideline LD 50, 5.000 mg/kg, Summary NOAEL, Pig, > 233,5 mg/kg, 1 = reliable without restrictions, according to specific guideline LD 50, Mouse, > 1.167,5 mg/kg, 1 = reliable without restrictions, according to specific guideline LD 50, Rabbit, > 5.000 mg/kg, 2 = reliable with restrictions, according to specific guideline

Inhalation

Product: ATEmix, 13 mg/l, Dust and mist

Components:

Calcium Aluminate Cement Clinker	LC 50, Rat, 1 h, 7,6 mg/l, Aerosol, 2 = reliable with restrictions, Aerosol

Aluminium sulfate	Discriminating dose:, Rat, 1 min, 20 ppm, Intrapleural injection, 2 = reliable with restrictions, Intrapleural injection, Key study LC 50, Rat, 5 d, 50 mg/m3, Inhalation, 1 = reliable without restrictions, Inhalation, Key study LC 50, Rat, 5 d, 200 mg/m3, Inhalation, 1 = reliable without restrictions, Inhalation, Key study LOAEL, Hamster, 3 d, 31 mg/m3, Aerosol, 2 = reliable with restrictions, Aerosol, Key study LOAEL, Rat, 5 d, 200 mg/m3, Inhalation, 1 = reliable without restrictions, Inhalation, Key study

Repeated dose toxicity

Product: Not classified based on available data.

Components:

Calcium Aluminate Cement Clinker	NOAEL Rat, Female, Male, Oral, 28 d, 1.000 mg/kg, Oral Read-across from supporting substance (structural analogue or surrogate), Key study
Aluminium sulfate	LOAEL Rat, Male, Oral, 21 d, 272 mg/kg, Oral Experimental study, Key NOAEL Guinea pig, Rat, Female, Male, Inhalation, 0,65 mg/m3, Inhalation No specified result type, Key NOAEL Rat, Female, Male, Oral, 100 mg/kg, Oral No specified result type, Key LOAEL Guinea pig, Rat, Female, Male, Inhalation, 5,4 mg/m3, Inhalation No specified result type, Key NOAEL Guinea pig; Hamster; Rat, Female, Male, Inhalation, 6 - 12 Months, 75 mg/m3, Inhalation No specified result type, Key

Skin Corrosion/Irritation

Product: Not classified based on available data.

Components:

Calcium Aluminate Cement Clinker	not corrosive, Skin irritation/corrosion, EpiDerm tissue, 3 min, Experimental study, Key Not irritating, in vivo, Rabbit, 1 - 72 h, Experimental study, Key

Aluminium sulfate	Not Classified, in vivo, Rabbit, 24 - 72 h, Experimental study, Key

Serious Eye Damage/Eye Irritation

Product: Not classified based on available data.

Components:

Calcium Aluminate Cement Clinker	Irritating, In vitro, Chicken, egg (Leghorn hen), EU
Aluminium sulfate	Category 1, in vivo, Rabbit, 24 - 72 h

Respiratory or Skin Sensitisation

Product: Not classified based on available data.

Components:

Calcium Aluminate Cement Clinker	Skin sensitisation:, in vivo, Guinea pig, Non sensitising
Aluminium sulfate	Skin sensitisation:, in vivo, Guinea pig, Not sensitising

Carcinogenicity

Product: Not classified based on available data.

Germ Cell Mutagenicity

In vitro

Product: Not classified based on available data.

In vivo

Product: Not classified based on available data.

Reproductive toxicity

Product: Not classified based on available data.

Specific Target Organ Toxicity - Single Exposure

Product: Not classified based on available data.

Specific Target Organ Toxicity - Repeated Exposure

Product: Not classified based on available data.

Aspiration Hazard

Product: Not classified based on available data.

11.2 Information on other hazards

Endocrine disrupting properties

Product: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.;

Other information

Product: No data available.

SECTION 12: Ecological information

12.1 Toxicity:

Acute hazards to the aquatic environment:

Fish

Product: Not classified based on available data.

Components:

Calcium Aluminate Cement Clinker	LC 50, Danio rerio, 96 h, > 100 mg/lStatic, Experimental result, Key study LC 50, Danio rerio, 96 h, > 100 mg/lStatic
Aluminium sulfate	LC 50, Danio rerio, 96 h, 9,4 mg/lStatic LC 10, Danio rerio, 96 h, 8,8 mg/lStatic LC 50, Danio rerio, 96 h, > 100 mg/lStatic EC 50, Danio rerio, 96 h, > 0,156 mg/lsemi-static

LC 50, Danio rerio, 96 h, > 0,42 mg/lsemi-static

Aquatic Invertebrates

Product:	Not classified based on available data.
Components:	
Quartz (SiO2)	LC 50, Daphnia magna, 24 h, 10.000 mg/l
Calcium Aluminate Cement Clinker	EC 50, Daphnia magna, 48 h, 5,4 mg/lStatic, experimental result Experimental result, Key study EC 50, Daphnia magna, 24 h, 6,4 mg/lStatic, Experimental result, Key study EC 50, Daphnia magna, 48 h, 5,4 mg/lStatic, Experimental result, Key study
Aluminium sulfate	LC 50, Littorina littorea, 24 h, 6.400 mg/lStatic, Experimental result, Key study LC 50, Zebra mussel (Dreissena polymorpha), 3 h, 730 mg/lStatic, Experimental result, Key study EC 50, Arctopsyche ladogensis (Caddisfly larvae), 96 h, > 5,9 - < 6,9 mg/lStatic, Experimental result, Key study LC 50, Carcinus maenas, 24 h, 2.500 mg/lStatic, Experimental result, Key study LC 50, Zebra mussel (Dreissena polymorpha), 24 h, 633 - 950 mg/lStatic, Experimental result, Key study

Toxicity to aquatic plants

Product:	Not classified based on available data.

Toxicity to microorganisms

Product:	Not classified based on available data.

Chronic hazards to the aquatic environment:

Fish

Product:	Not classified based on available data.
Components:	
Aluminium sulfate	LC 50, Danio rerio, > 548,3 µg/l, flow-through, experimental result LC 50, Pimephales promelas, > 1.553,2 µg/l, semi-static, experimental result NOEL, Salvelinus fontinalis, 15 µg/l, semi-static, experimental result EC 10, Pimephales promelas, 589,2 µg/l, semi-static, experimental result NOEL, Salvelinus fontinalis, 22 µg/l, semi-static, experimental result

Aquatic Invertebrates

Product:	Not classified based on available data.
Components:	
Aluminium sulfate	NOEC, Ceriodaphnia dubia, 3,8 mg/l, semi-static, experimental result Experimental result, Key study NOEC, Daphnia magna, 12 mg/l, Renewal, experimental result Experimental result, Key study LT 50, Amphinemura sulcicollis, 0,08 mg/l, Lotic, experimental result Experimental result, Key study LT 50, Amphinemura sulcicollis, 0,058 mg/l, Lotic, experimental result Experimental result, Key study LT 50, Amphinemura sulcicollis, 0,054 mg/l, Lotic, experimental result

Experimental result, Key study

Toxicity to microorganisms
Product: Not classified based on available data.

12.2 Persistence and degradability

Biodegradation

Product: Not classified based on available data.

12.3 Bioaccumulative potential

Bioconcentration Factor (BCF)
Product: Not classified based on available data.
Components:
Aluminium sulfate — Salmo salar, 362, Aquatic sediment Experimental result, Key study
Salmo salar, 76 - 190, Aquatic sediment Experimental result, Key study

Partition Coefficient n-octanol / water (log Kow)
Product: Not classified based on available data.

12.4 Mobility in soil:

Product Not classified based on available data.

12.5 Results of PBT and vPvB assessment:

Product This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties:

Product: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects:

Other hazards
Product: No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information:	Dispose of waste and residues in accordance with local authority requirements.
Disposal methods:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Contaminated Packaging:	Dispose of this material and its container to hazardous or special waste collection point.
European Waste Codes	
Used product:	15 01 05: composite packaging

SECTION 14: Transport information

ADR

14.1 UN number or ID number:	Not Regulated.
14.2 UN proper shipping name:	Not Regulated.
14.3 Transport hazard class(es)	
Class:	Not Regulated.
Label(s):	Not Regulated.
Hazard No. (ADR):	Not Regulated.
Tunnel restriction code:	Not Regulated.
14.4 Packing group:	Not Regulated.
Limited quantity	Not Regulated.
Excepted quantity	Not Regulated.
14.5 Environmental hazards	Not Regulated.
14.6 Special precautions for user:	Not Regulated.

IMDG

14.1 UN number or ID number:	Not Regulated.
14.2 UN proper shipping name:	Not Regulated.
14.3 Transport hazard class(es)	
Class:	Not Regulated.
Label(s):	Not Regulated.
EmS No.:	Not Regulated.
14.4 Packing group:	Not Regulated.
Limited quantity	Not Regulated.
Excepted quantity	Not Regulated.
14.5 Marine pollutant	Not Regulated.
14.6 Special precautions for user:	Not Regulated.

IATA

14.1 UN number or ID number:	Not Regulated.
14.2 UN proper shipping name:	Not Regulated.
14.3 Transport hazard class(es)	
Class:	Not Regulated.
Label(s):	Not Regulated.
14.4 Packing group:	Not Regulated.
Passenger and cargo aircraft :	Not Regulated.
Limited quantity	Not Regulated.

Excepted quantity	Not Regulated.
14.5 Environmental hazards	Not Regulated.
14.6 Special precautions for user:	Not Regulated.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

UK. REACH, Annex XIV, Substances Subject to Authorization (Authorization List), as amended: None present or none present in regulated quantities.

UK. UK REACH Candidate List of substances of very high concern (SVHCs) for Authorisation: None present or none present in regulated quantities.

UK. Great Britain Assimilated Regulation (EU) 2019/1021 on Persistent Organic Pollutants, as amended: None present or none present in regulated quantities.

UK EXP1: UK. GB PIC List, Regulation (EU) 649/2012 as amended by EU Exit Regulations S.I. 2019/720 and S.I. 2020/1567, as amended: None present or none present in regulated quantities.

UK EXP2: UK. GB PIC List, Regulation (EU) 649/2012 as amended by EU Exit Regulations S.I. 2019/720 and S.I. 2020/1567, as amended: None present or none present in regulated quantities.

UK EXP3: UK. GB PIC List, Regulation (EU) 649/2012 as amended by EU Exit Regulations S.I. 2019/720 and S.I. 2020/1567, as amended: None present or none present in regulated quantities.

UK BAN: UK. GB PIC List, Regulation (EU) 649/2012 as amended by EU Exit Regulations S.I. 2019/720 and S.I. 2020/1567, as amended: None present or none present in regulated quantities.

UK REACH List of restrictions (Annex 17):

Chemical name	CAS-No.	Number on list
2-[2-(2-butoxyethoxy)ethoxy]ethanol	143-22-6	3
p-toluenesulphonic acid, containing more than 5 % H2SO4	104-15-4	3
1,2-benzothiazol-3-one	2634-33-5	3

Control of Major Accident Hazards Regulations 2015 (COMAH): None present or none present in regulated quantities.

National Regulations

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

15.2 Chemical safety assessment: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Date of first report version: 16.02.2026

Revision Date: 16.02.2026

Version #: 1.0

Abbreviations and acronyms:

EH40 WEL: UK. EH40 Workplace Exposure Limits (WELs)
EH40 WEL / TWA: Time Weighted Average (TWA)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; EIGA - European Industrial Gases Association; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Key literature references and sources for data: No data available.

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

Classification	Classification procedure
Skin irritation, Category 2	Calculation method
Serious eye damage, Category 1	On basis of test data

Skin sensitiser, Category 1	On basis of test data

Full text of the hazard statements

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

Training information: No data available.

Disclaimer: This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.