

SAFETY DATA SHEET

Flowing Repair Concrete

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830
AS AMENDED BY UK REACH REGULATIONS SI 2019/758

Date of issue: 22/09/202
Version 2.0

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier**
Product name Flowing Repair Concrete
Unique Formula Identifier (UFI) Not available
Nanoform The product does not contain nanoparticles.
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
Identified Use(s) Building and construction work.
Uses advised against Anything other than the above.
- 1.3 Details of the supplier of the safety data sheet**
Company Identification Tarmac Packed Products
Ground Floor
T3 Trinity Park
Bickenhill Lane
Birmingham
West Midlands
B37 7ES
United Kingdom
Telephone +44 (0)345 812 6232
E-mail (competent person) info-cement@tarmac.com
- 1.4 Emergency telephone number**
Emergency Phone No. +44 (0)345 812 6232 (08:30 – 16:00)
Languages spoken English

SECTION 2: HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture**
- 2.1.1 The retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain**
Skin Corr. 1; H314
Skin Sens. 1; H317
Eye Dam. 1; H318
STOT SE 3; H335
- 2.2 Label elements**
According to the retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain
- Product name Flowing Repair Concrete
Contains: Portland cement clinker
- Hazard Pictogram(s)
 
- Signal Word(s) DANGER
- Hazard Statement(s)
H314: Causes severe skin burns and eye damage.
H317: May cause an allergic skin reaction.
H335: May cause respiratory irritation.
- Precautionary Statement(s)
P260: Do not breathe dust.
P264: Wash hands thoroughly after handling.

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Supplemental information

P280: Wear protective gloves/protective clothing and eye/face protection.
P303+P361+P353: IF ON SKIN or hair: Take off immediately all contaminated clothing. Rinse skin with 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.
P310: Immediately call a POISON CENTER/doctor.

None.

2.3 Other hazards

Not classified as PBT or vPvB. Does not cause endocrine disruption.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances - Not applicable

3.2 Mixtures

Classification: The retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Statement(s)
Portland cement clinker	21- < 26	65997-15-1	266-043-4	Not yet assigned in the supply chain	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Eye Dam. 1; H318 STOT SE 3; H335

For full text of H phrases see section 16.

SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Self-protection of the first aider

No action should be taken involving personal risk. Wear appropriate personal protective equipment. Ensure adequate ventilation. Do not breathe dust. Avoid all contact. Contaminated clothing should be laundered before reuse. Wash hands and body thoroughly after handling.

Inhalation

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Blow nose to evacuate dust. Apply artificial respiration if breathing has ceased or shows signs of failing. Immediately call a POISON CENTER/doctor.

Skin contact

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Brush off loose particles from skin, only then: rinse skin with water. Immediately call a POISON CENTER/doctor.

Eye contact

IF IN EYES: Do not rub affected area. Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.

Ingestion

IF SWALLOWED: Rinse mouth. If the victim is conscious and alert, give 2-4 glasses of water or milk. Do NOT induce vomiting. Do not give anything by mouth to an unconscious person. Immediately call a POISON CENTER/doctor.

4.2 Most important symptoms and effects, both acute and delayed

Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to a physician:

Treat symptomatically.

Treatment by an ophthalmologist due to possible caustic burn of the eyes may be required.

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SECTION 5: FIREFIGHTING MEASURES

- 5.1 Extinguishing media**
Suitable extinguishing media
Unsuitable extinguishing media
- 5.2 Special hazards arising from the substance or mixture**
- 5.3 Advice for firefighters**
- Extinguish with carbon dioxide, dry chemical, foam or waterspray.
Do not use water jet. Direct water jet may spread the fire.
May give off noxious and toxic fumes in a fire. Combustion products: Carbon monoxide, Carbon dioxide.
Fight fire with normal precautions from a reasonable distance. Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures**
- 6.2 Environmental precautions**
- 6.3 Methods and material for containment and cleaning up**
When dry:

When wet
- 6.4 Reference to other sections**
- No action should be taken involving personal risk. Ensure operatives are trained to minimise exposures. Only trained and properly protected personnel must be involved in clean-up operations. Wear appropriate personal protective equipment, avoid direct contact. Ensure adequate ventilation. Do not breathe dust. Avoid all contact. Remove contaminated clothing. Brush off loose particles from skin, only then: wash skin with soap and water. Wash contaminated clothing before reuse. Avoid release to the environment.
Provided it is safe to do so, isolate the source of the leak.
Use approved industrial vacuum cleaner for removal or sweep up and shovel into waste drums or plastic bags. Avoid dust generation. Do not use compressed air for cleaning purposes. Transfer to a container for disposal.
Sweep up spilled substance. Collect in closed and suitable containers for disposal. Allow stiffening. Wash the spillage area with water. Avoid run off to waterways and sewers.
See Section: 8,13

SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling**
- 7.2 Conditions for safe storage, including any incompatibilities**
storage temperature
Incompatible materials
- 7.3 Specific end use(s)**
- Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures. Obtain special instructions before use. Use personal protective equipment as required. Do not breathe dust. Do not get in eyes. Do not get on skin. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wash contaminated clothing before reuse.
Keep only in original packaging. Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources.
Keep cool. Protect from sunlight.
Acid anhydrides, acids, phenols and cresols.
See Section: 1.2

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
8.1.1 Occupational exposure limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
Cement, portland, chemicals	65997-15-1	-	10 (inhalable dust) 4 (respirable dust)	-	-	-

Source: WEL: Workplace Exposure Limit (UK HSE EH40)

- 8.1.2 Biological limit value**
- Not established

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8.1.3	PNECs and DNELs	Not established
8.2	Exposure controls	
8.2.1	Appropriate engineering controls	Provide adequate ventilation, including appropriate local extraction if dusts, fumes or vapours are likely to be evolved. Guarantee that the eye flushing systems and safety showers are located close to the working place.
8.2.2	Individual protection measures, such as personal protective equipment	Avoid all contact. Keep good industrial hygiene. Do not eat, drink or smoke at the work place. Wash hands thoroughly after handling. Remove contaminated clothing and wash it before reuse.
	Eye/ face protection	Use eye protection according to EN 166, designed to protect against dusts. Eyewash bottles should be available.
		
	Skin protection	Wear suitable protective clothing.
		
	Respiratory protection	Wear a dust mask when needed.
		Recommended: Filter type: EN143 Type A-P2/P3
	Thermal hazards	Not applicable
8.2.3	Environmental exposure controls	Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	Information on basic physical and chemical properties	
	Appearance	Cement, Powder
	Odour	Slight
	Odour threshold	Not available
	pH	≥ 11.5
	Melting point/freezing point	Not available
	Initial boiling point and boiling range	Not applicable - Solid
	Flash point	Not applicable - Solid
	Evaporation rate	Not applicable - Solid
	Flammability (solid, gas)	Not flammable
	Upper/lower flammability or explosive limits	Not applicable
	Vapour pressure	Not applicable - Solid
	Vapour density	Not applicable - Solid
	Relative density	Not available
	Solubility(ies)	Slight (0.1-1.5 g/l)
	Partition coefficient: n-octanol/water	Not available
	Auto-ignition temperature	Not available
	Decomposition temperature	Not available
	Viscosity	Not applicable - Solid
	Explosive properties	Not explosive
	Oxidising properties	Not oxidising
9.2	Other information	None known

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SECTION 10: STABILITY AND REACTIVITY

10.1	Reactivity	When mixed with water, cements will harden into a stable mass that is not reactive in normal environments.
10.2	Chemical stability	Stable under normal conditions
10.3	Possibility of hazardous reactions	None anticipated. May give off noxious and toxic fumes in a fire. Combustion products: Carbon monoxide, Carbon dioxide.
10.4	Conditions to avoid	Cement in concrete dissolves in hydrofluoric acid to produce corrosive silicon tetrafluoride gas. Keep away from heat and direct sunlight. Avoid contact with moisture.
10.5	Incompatible materials	Acid anhydrides, acids, phenols and cresols.
10.6	Hazardous decomposition products	None known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects	
	Acute toxicity - Ingestion	Mixture: Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LD50 >2000 mg/kg bw
	Acute toxicity - Inhalation	Mixture: Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LC50 >5 mg/l (dust)
	Acute toxicity - Skin contact	Mixture: Based upon the available data, the classification criteria are not met. Acute Toxicity Estimate Mixture Calculation: LD50 >2000 mg/kg bw
	Skin corrosion/irritation	Mixture: Skin Corr. 1; H314: Causes severe skin burns and eye damage. Extreme pH ≥ 11.5. See section 9
		Portland cement clinker Skin Irrit. 2; H315: Causes skin irritation.
	Serious eye damage/irritation	Source: EU classification and labelling inventory. Mixture: Eye Dam. 1; H318: Causes serious eye damage. Extreme pH ≥ 11.5. See section 9
		Portland cement clinker Eye Dam. 1; H318: Causes serious eye damage.
	Respiratory or skin sensitisation	Source: EU classification and labelling inventory. Mixture: Skin Sens. 1; H317: May cause an allergic skin reaction.
		Portland cement clinker Skin Sens. 1; H317: May cause an allergic skin reaction.
	Germ cell mutagenicity	Source: EU classification and labelling inventory.
	Carcinogenicity	Mixture: Based upon the available data, the classification criteria are not met.
	Reproductive toxicity	Mixture: Based upon the available data, the classification criteria are not met.
	STOT - single exposure	Mixture: STOT SE 3; H335: May cause respiratory irritation.
		Portland cement clinker STOT SE 3; H335: May cause respiratory irritation.
	STOT - repeated exposure	Source: EU classification and labelling inventory.
	Aspiration hazard	Mixture: Based upon the available data, the classification criteria are not met.
		Mixture: Based upon the available data, the classification criteria are not met.
		Product form- Solid
11.2	Other information	None

SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	Mixture: Based upon the available data, the classification criteria are not met. Estimated LC50 (Mixture): >100 mg/l.
12.2	Persistence and degradability	No data for the mixture as a whole.
	Portland cement clinker	Testing can be waived because the substance is an inorganic compound.
12.3	Bioaccumulative potential	No data for the mixture as a whole.
	Portland cement clinker	Testing can be waived because the substance is an inorganic compound.
12.4	Mobility in soil	No data for the mixture as a whole.
	Portland cement clinker	Testing can be waived because the substance is an inorganic compound.
12.5	Results of PBT and vPvB assessment	Not classified as PBT or vPvB.
12.6	Other adverse effects	None known

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste classification according to Directive 2008/98/EC
(Waste Framework Directive)

Dispose of this material and its container as hazardous waste. Disposal should be in accordance with local, state or national legislation.

HP 5: Specific Target Organ Toxicity

HP 8: Corrosive

HP 13: Sensitising.

SECTION 14: TRANSPORT INFORMATION

	ADR/RID	IMDG	IATA/ICAO
14.1 UN number	1759	1759	1759
14.2 UN proper shipping name	CORROSIVE N.O.S	SOLID CORROSIVE N.O.S	SOLID CORROSIVE N.O.S
14.3 Transport hazard class(es)	8	8	8
14.4 Packing group	III	III	III
14.5 Environmental hazards	Not classified	Not classified as a Marine Pollutant.	Not classified
14.6 Special precautions for user	See section 2		
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable	Not applicable	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	
Authorisations and/or restrictions on use	Not restricted for the intended use(s) of the product.
GB regulations	
15.1.2 National regulations	Not restricted for the intended use(s) of the product.
Germany	
15.2 Chemical Safety Assessment	Water hazard class: Slightly hazardous to water (wgk 1) (Self classification) A chemical safety assessment is not required under REACH.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Updated version and date. Updated substance / mixture classification. Please review SDS with care.

Sections indicated with the following have been revised:

References: Existing Safety Data Sheet (SDS); EU classification and labelling inventory for Portland cement clinker (CAS No.: 65997-15-1)

Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830. Compiled in accordance with REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Classification of the substance or mixture. The retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain	Classification procedure
Skin Corr. 1; H314	Extreme pH
Skin Sens. 1; H317	Threshold Calculation
Eye Dam. 1; H318	Extreme pH
STOT SE 3; H335	Threshold Calculation

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Legend

ADR	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DNEL	Derived no effect level
IATA	IATA: International Air Transport Association
ICAO	ICAO: International Civil Aviation Organization
IMDG	IMDG: International Maritime Dangerous Goods
LTEL	Long term exposure limit
PBT	PBT: Persistent, Bioaccumulative and Toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	RID: Regulations concerning the international railway transport of dangerous goods
STEL	Short term exposure limit
vPvB	vPvB: very Persistent and very Bioaccumulative

Hazard classification / Classification code:

Skin Corr. 1; Skin corrosion/irritation, Category 1
Skin Sens. 1B; Skin Sensitisation, Category 1
Skin Sens. 1; Skin Sensitisation, Category 1
Eye Dam. 1; Eye damage, category 1
STOT SE 3; Specific target organ toxicity — single exposure, Category 3

Hazard Statement(s)

H314: Causes severe skin burns and eye damage.
H317: May cause an allergic skin reaction.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H335: May cause respiratory irritation.

Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

Disclaimers

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Annex to the extended Safety Data Sheet (eSDS)

Exposure scenarios for substances in this preparation are not available.