

SAFETY DATA SHEET

GM Tunnelling Grout

Date of issue: 10/04/2025

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

Version: 1.0

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

1.1 Product identifier

Product name GM Tunnelling Grout
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) Void filling, piling, soil consolidation
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)
Language(s) spoken: English

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture Regulation (EC) No. 1272/2008 (CLP)

Skin Corr. 1; H314
Eye Dam. 1; H318
Skin Sens. 1; H317

2.2 Label elements

Product name According to Regulation (EC) No. 1272/2008 (CLP).
GM Tunnelling Grout

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.

Precautionary Statement(s) P260: Do not breathe dust.
P280: Wear protective gloves/protective clothing/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.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

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P332+P313: If skin irritation occurs: Get medical advice/attention.

P501: Dispose of contents/container according to national/local hazardous waste disposal regulations.

Supplemental information

Not applicable

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

EC Classification Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Statement(s)
Portland cement clinker	5-15	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

Note: 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, avoid direct contact. Ensure adequate ventilation. Do not breathe dust. Do not get in eyes. Do not get on skin. Contaminated clothing should be laundered before reuse. Wash hands and body thoroughly after handling. Specific treatment (see on this label).

Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If symptoms develop, obtain medical attention.

Skin contact

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER/doctor.

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Ingestion

IF SWALLOWED: Rinse mouth. Give plenty of water to drink. Do NOT induce vomiting. Do not give anything by mouth to an unconscious person. May cause damage to the digestive tract if swallowed. 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.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Notes to a physician:

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

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

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	Suitable extinguishing media	Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions.
	Unsuitable extinguishing media	Do not use water jet. Direct water jet may spread the fire.
5.2	Special hazards arising from the substance or mixture	Not flammable. None Known.
5.3	Advice for firefighters	Fight fire with normal precautions from a reasonable distance. Keep upwind. 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	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. Do not get in eyes. Do not get on skin. Remove contaminated clothing and wash all affected areas with plenty of water. Wash contaminated clothing before reuse.
6.2	Environmental precautions	Avoid release to the environment. Avoid run off to waterways and sewers.
6.3	Methods and material for containment and cleaning up	Provided it is safe to do so, isolate the source of the leak. When dry: Use approved industrial vacuum cleaner for removal or Sweep up and shovel into waste drums or plastic bags. Avoid dust generation. Transfer to a container for disposal. When wet: 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.
6.4	Reference to other sections	See Section: 8,13

SECTION 7: HANDLING AND STORAGE

7.1	Precautions for safe handling	Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures. Do not handle until all safety precautions have been read and understood. 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.
7.2	Conditions for safe storage, including any incompatibilities	Keep only in the original container. Keep container tightly closed. Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. Storage containers should not be made from aluminium.
	Storage temperature	Keep cool. Protect from sunlight.
	Incompatible materials	Aluminium
7.3	Specific end use(s)	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/m³)	STEL (ppm)	STEL (mg/m³)	Note
Cement, portland, chemicals	65997-15-1	-	10 (inhalable dust); 4 (respirable dust)	-	-	-

Source: 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	Ensure adequate ventilation Store in a cool/low-temperature, well-ventilated (dry) place away from heat and ignition sources. 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	Keep good industrial hygiene. Wear appropriate personal protective equipment, avoid direct contact. Ensure adequate ventilation. 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.

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Eye / face protection



When wet:

Use eye protection according to EN 166, designed to protect against liquid splashes.

When dry:

Use eye protection according to EN 166, designed to protect against dusts.

Skin protection



Body protection:

Wear impervious protective clothing, including boots, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Hand protection:

Wear suitable chemical resistant protective gloves for frequent or prolonged operations tested to EN374 with an acceptable permeation test. Contaminated gloves should be carefully rinsed with water before reuse

Respiratory protection



Respiratory protection is not necessary if room is well ventilated. In case of inadequate ventilation wear respiratory protection.

Thermal hazards

Not applicable

8.2.3	Environmental exposure controls	Keep container tightly closed. Avoid release to the environment.
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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	When wet: semi-solid When dry: Dry powder
Colour	Grey
Odour	Slightly earthy
Melting point/freezing point	1250 (typical)
Boiling point or initial boiling point and boiling range	Not Determined
Flammability	Not flammable
Lower and upper explosion limit	Not explosive
Flash point	Not Applicable
Auto-ignition temperature	Not Applicable
Decomposition temperature	Not Applicable

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pH	11-13.5 (20°C in water, water solid ratio 1:2)
Kinematic viscosity	Not Applicable
Solubility	The product is sparingly soluble in water.
Partition coefficient: n-octanol/water (log value)	Not Applicable
Vapour pressure	Not Applicable
Density and/or relative density	3.0 (typical)
Relative vapour density	0 at 20°C
Particle characteristics	Not established

9.2 Other information None Known

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	When wet: Reacts with - Aluminium Powder. Release of: Hydrogen
10.4 Conditions to avoid	Heat and direct sunlight. Humidity
10.5 Incompatible materials	Acids; Aluminium; Aluminium Powder; non-noble metals
10.6 Hazardous decomposition products	None known

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008	
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/Mist)
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. See section 9.
Serious eye damage/irritation	Portland cement clinker Skin Irrit. 2; H315: Causes skin irritation. EU classification and labelling inventory. (220 Notifiers)
Respiratory or skin sensitisation	Mixture: Eye Dam. 1; H318: Causes serious eye damage. EU classification and labelling inventory. (220 Notifiers)
Germ cell mutagenicity	Mixture: Skin Sens. 1; H317: May cause an allergic skin reaction.
Carcinogenicity	Portland cement clinker Skin Sens. 1B; H317: May cause an allergic skin reaction. EU classification and labelling inventory. (220 Notifiers)
Reproductive toxicity	Mixture: Based upon the available data, the classification criteria are not met.
STOT - single exposure	Mixture: Based upon the available data, the classification criteria are not met.
STOT - repeated exposure	Mixture: Based upon the available data, the classification criteria are not met.
Aspiration hazard	Mixture: Based upon the available data, the classification criteria are not met.
11.2 Information on other hazards	
11.2.1 Endocrine disrupting properties	This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.
11.2.2 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	Not applicable for inorganic substances.

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12.3	Bioaccumulative potential	No data for the mixture as a whole.
	Portland cement clinker	No data available
12.4	Mobility in soil	No data for the mixture as a whole.
	Portland cement clinker	No data available
12.5	Results of PBT and vPvB assessment	This mixture does not contain any substance considered to be PBT or vPvB.
12.6	Endocrine disrupting properties	This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.
12.7	Other adverse effects	None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods	Dispose of this material and its container as hazardous waste. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. Disposal should be in accordance with local, state or national legislation.
	Waste classification according to Directive 2008/98/EC (Waste Framework Directive)	HP 4: Irritant — skin irritation and eye damage HP 8: Corrosive

SECTION 14: TRANSPORT INFORMATION

	ADR/RID	IMDG	IATA/ICAO
14.1	UN 1759	UN 1759	UN 1759
14.2	CORROSIVE SOLID, N.O.S	CORROSIVE SOLID, N.O.S	CORROSIVE SOLID, N.O.S
14.3	Transport hazard class(es)	8	8
14.4	Packing group	III	III
14.5	Environmental hazards	Not classified	Not classified
14.6	Special precautions for user	See Section: 2	
14.7	Maritime transport in bulk according to IMO instruments	Not applicable	Not applicable
14.8	Additional information	None	

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.
15.1.2	National regulations	
	Germany	Water hazard class (WGK): slightly hazardous to water (WGK 1), (Self classification)
15.2	Chemical Safety Assessment	A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Not Applicable – V1.0

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

EU Classification: This Safety Data Sheet was prepared in accordance with EC Regulation (EC) 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP)	Classification procedure
Skin Corr. 1; H314	Extreme pH

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Eye Dam. 1; H318	Threshold Calculation
Skin Sens. 1; H317	Threshold Calculation

Legend

ADR	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	ADN: European Agreement on the International Transport of Dangerous Goods by Inland Waterways
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 Irrit. 2; Skin corrosion/irritation, Category 2
Eye Dam. 1; Eye damage, category 1
Skin Sens. 1; Skin Sensitisation, Category 1
Skin Sens. 1B; Skin Sensitisation, Category 1B
STOT SE 3; Specific target organ toxicity — single exposure, Category 3

Hazard Statement(s)

H314: Causes severe skin burns and eye damage.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H317: May cause an allergic skin reaction.
H317: May cause an allergic skin reaction.
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.