

SAFETY DATA SHEET (MSDS)
according to Regulation (EC) No. 1907/2006 (REACH)

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

1.1 Product identifier:

Product Name:

tuffbed bedding mortar
tuffbed 2-pack mothermix
tuffbed Utility bedding mortar
tufftop jointing mortar
tufftop Utility jointing mortar

tuffbond priming mortar
tuffbond Utility priming mortar
tuffset G rapid system mortar
tuffset 60 rapid repair mortar
tufffix paving repair mortar

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

SU19: Building and construction work.
Any uses not mentioned above, are advised against.

1.3 Details of the supplier of the safety data sheet:

tuffbau Ltd
1 Northwick Road
Canvey Island
Essex
SS8 0PU

Telephone: +44 (0) 203 598 9800
Email: info@tuffbau.com

1.4 Emergency telephone number

Telephone: +44 (0) 7748 652 206

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture:

Hazard Class	Hazard Category	Hazard Statements
Skin irritation	2	H318: Causes serious eye damage
Serious eye damage/eye irritation	1	H315: Causes skin irritation
Skin sensitization	1B	H317: May cause an allergic skin
Specific target organ toxicity single exposure respiratory tract irritation	3	H335: May cause respiratory irritation

2.2 Label elements

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

Hazard pictograms



Signal word

Danger

Hazard statements

H318 Causes serious eye damage

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H335 May cause respiratory irritation

Precautionary statements

P102	Keep out of reach of children.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338+P310	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 or doctor/physician.
P261+P304+P340+P312	Avoid breathing dust. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
P501	Dispose of product/packaging by hardening with the application of water and dispose of as concrete waste.

Supplemental Hazard information

Skin contact with wet cement, fresh concrete or mortar may cause irritation, dermatitis or burns.

2.3 Other hazards

Cement does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH (Regulation (EC) No 1907/2006).

When cement reacts with water, for instance when making concrete or mortar, or when the cement becomes damp, a strong alkaline solution is produced. Due to the high alkalinity, wet cement may provoke skin and eye irritation.

The product contains chromate reducing agent. As a result, the content of soluble chromium (VI) is less than 2 ppm. If the storage conditions are not appropriate or the storage period is exceeded, the effectiveness of the reducing agent can diminish, and the cement can become skin sensitizing.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable as the product is a mixture, not a substance.

3.2 Mixtures

Description of the mixture

Common cement types according to the EN 197-1 standard.

Hazardous ingredients

Substance Name	CAS No.	EC No.	REACH No.	Classification according to Regulation (EC) No. 1272 [CLP]
Portland Cement	65997-15-1	266-043-4	Exempt	H318 Causes serious eye damage H315 Causes skin irritation H317 May cause an allergic skin reaction H335 May cause respiratory irritation

SECTION 4: First aid measures

4.1 Description of first aid measures

Following inhalation

Move the person to fresh air. Dust in throat and nasal passages should clear spontaneously. Contact a physician if irritation persists or later develops or if discomfort, coughing or other symptoms persist.

Following skin contact

For dry product, remove and rinse abundantly with water. For wet product, wash skin with plenty of water. Remove contaminated clothing, footwear, watches, etc. and clean thoroughly before re-using them. Seek medical treatment in all cases of irritation or burns.

Following eye contact

Do not rub eyes in order to avoid possible cornea damage as a result of mechanical stress. Remove contact lenses if any. Incline head to injured eye, open the eyelid(s) widely and flush eye(s) immediately by thoroughly rinsing with plenty of clean water for at least 20 minutes to remove all particles. Avoid flushing particles into uninjured eye. Contact a medical practitioner.

Following ingestion

Do not induce vomiting. If the person is conscious, wash out mouth with water and give plenty of water to drink. Seek immediate medical attention.

Self-protection of the first aider

No personal protective equipment is needed for first aid responders. First aid workers should avoid contact with wet product.

4.2 Most important symptoms and effects, both acute and delayed

Eyes: Eye contact with product containing cement (dry or wet) may cause serious and potentially irreversible injuries.

Skin: Product containing cement may have an irritating effect on moist skin (due to sweat or humidity) after prolonged contact or may cause contact dermatitis after repeated contact. Prolonged skin contact with wet cementitious product may cause serious burns because they develop without pain being felt (for example when kneeling in wet concrete even when wearing trousers).

Inhalation: Repeated inhalation of dust of common cements over a long period of time increases the risk of developing lung diseases.

4.3 Indication of any immediate medical attention and special treatment needed

When contacting a medical practitioner, take this SDS with you.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Product and constituents are non-flammable.

5.2 Special hazards arising from the substance or mixture

Product and constituents are non-flammable.

5.3 Advice for fire-fighters

Product and constituents are non-flammable.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Personal protective equipment should be worn to prevent contact of dry or wet product with skin, prevent inhalation or ingestion and prevent contact with eyes.

For emergency responders

No personal protective equipment is needed for emergency responders. Emergency responders should avoid contact with wet product.

6.2 Environmental precautions

Do not allow significant quantities of undiluted product to enter sewer and drainage systems or into bodies of water.

6.3 Methods and material for containment and cleaning up

Dry product:

Use filtered vacuum or shovel to remove large quantities of dry product. Avoid airborne distribution. If this is not possible, wet the product and proceed as detailed below.

Wet product:

Place wet product in to a container and allow to solidify prior to disposal.

6.4 Reference to other sections

Refer to section 8 for further relevant information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Advice on safe handling

Personal protective equipment should be worn to prevent contact of dry or wet product with skin, prevent inhalation or ingestion and contact with eyes.

Fire preventions

Product and constituents are non-flammable.

Aerosol and dust generation preventions

Avoid airborne distribution. Suppress dust with water during mixing of product.

7.1 Precautions for safe handling (cont.)

Environmental precautions

Do not allow significant quantities of undiluted product to enter sewer and drainage systems or into bodies of water.

Advice on general occupational hygiene

Personal protective equipment should be worn to prevent contact of dry or wet product with skin, prevent inhalation or ingestion and prevent contact with eyes.

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry store in original packaging on pallets

7.3 Control of soluble Cr (VI)

For cements treated with a Cr (VI) reducing agent according to the regulations given in Section 15, the effectiveness of the reducing agent diminishes with time. Therefore, product bags contain information on the packaging date, 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 0.0002 % of the total dry weight of the cement ready for use, according to EN 196-10. They will also indicate the appropriate storage conditions for maintaining the effectiveness of the reducing agent.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Substance Name	CAS No.	EC No.	Occupational exposure limit value – 8hr TWA
Portland Cement	266-043-4	65997-15-1	10 mg/m ³

8.2 Exposure controls

Appropriate engineering controls:

Avoid airborne distribution. Suppress dust with water during mixing of product.

Do not allow significant quantities of undiluted product to enter sewer and drainage systems or into bodies of water.

Personal protective equipment:

Personal protective equipment should be worn to prevent contact of dry or wet product with skin, prevent inhalation or ingestion and prevent contact with eyes.



Environmental exposure controls:

Avoid airborne distribution. Suppress dust with water during mixing of product.

Do not allow significant quantities of undiluted product to enter sewer and drainage systems or into bodies of water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Grey fine powder with small grit particles
Odour	Odourless
pH	11-13.5
Flammability	Non-flammable
Relative density	~ 1.5 - 2.0 g/cm ³
Explosive properties	Non-explosive

SECTION 10: Stability and reactivity

10.1 Reactivity

Unused dry powdered product reacts with water to produce calcium hydroxide and silicates during curing.

10.2 Chemical stability

Solidified product following mixing with water is alkali but generally stable however strong acids such as hydrofluoric acid can dissolve the product producing corrosive silicon trifluoride gas.

10.3 Possibility of hazardous reactions

No risk of hazardous reactions.

10.4 Conditions to avoid:

Avoid damp conditions during storage.

10.5 Incompatible materials:

Acids.

10.6 Hazardous decomposition products:

Cement based product will not decompose to form any hazardous products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Inhalation, ingestion and contact with cement dust contained within product can aggravate existing respiratory skin and eye conditions and can cause external and internal burns and serious damage to eyes.

SECTION 12: Ecological information

12.1 Toxicity:

Unused dry powdered product and product freshly mixed with water is generally not environmentally hazardous but until solidified can adversely affect the environment. Do not allow significant quantities of undiluted product to enter sewer and drainage systems or into bodies of water.

Solidified product following mixing with water is not environmentally hazardous.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Unused dry powdered product:

EWC entry: 10 13 06 (other particulates and dust).
Harden with water and dispose of as detailed below.

Wet mixed product:

Do not allow significant quantities of undiluted product to enter sewer and drainage systems or into bodies of water. Allow to harden and dispose of as detailed below.

Solidified product following mixing with water:

EWC entries: 17 01 01 (construction and demolition wastes - concrete).
Dispose of hardened product as concrete waste according to local legislation.

Packaging:

EWC entries: 15 01 01 (waste paper and cardboard packaging), 15 01 02 (Plastic packaging).
Completely empty the packaging and process it according to local legislation.

SECTION 14: Transport information

The products are not covered by the international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID), therefore no classification is required.

SECTION 15: Regulatory information

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

Cement is a mixture according to REACH and is not subject to registration.

The marketing and use of cement is subject to a restriction on the content of soluble Cr (VI) (REACH Annex XVII point 47 Chromium VI compounds).

15.2 Chemical Safety Assessment

For this product a chemical safety assessment is not required.

SECTION 16: Other information

16.1 Indication of changes

This document is revision v3 and replaces all prior versions.
Previous revision v2 dated 26 June 2019.

16.2 Training advice and further information

For assistance in appropriately specifying the products and training on handling, use and application of the products please visit www.tuffbau.com or call +44 (0) 203 598 9800 or email info@tuffbau.com