

DATA SHEET

Kestral
Construction Products Ltd



KCP Construction Grout

D.o.T. Highways Spec:- 2601 Compliant. KCP Construction Grout is a non shrink, high strength cementitious grout comprising of low alkali high specific surface area Portland cements and other cementitious binders combined with high purity aggregates and a system of compatible admixtures to achieve high in service performance.

This grout has high flow characteristics to achieve penetration and levelling with no bleed and zero shrinkage when placed at 0.22 water solid ratio.

■ Uses

KCP Construction Grout has been specifically designed for anchor or base plate grouting, under machinery and stanchion plates, grouting rails and bridge bearings, fixing bolts, parapet rails etc. It can also be used in its plastic state as a bedding mortar.

■ Key properties

- Equivalent Sodium Oxide is less than 3.0kg/m³
- High ultimate strength
- Shrinkage compensated
- Can be used for grouting sections up to 100mm thick
- Chloride free
- High fluidity – can be pumped or poured

■ Yield

The approximate yield of mixed grout per tonne of dry powder is 0.61m³. The approximate quantity of dry powder required to produce 1m³ of set grout is 1.65 tonnes. This equates to 15.2 litres per 25kg of dry powder. These figures do not allow for site wastage.

■ Mixing instructions

The grout should be mixed using water that complies with BS EN 1008 (as for concrete).

It should be mixed in a suitable container using either an electric (1kW) or pneumatic power tool. Larger amounts can be mixed in a FORCED ACTION paddle mixer.

25kg of the grout powder should be added carefully to 5.5 litres of water, progressively mixing until a fluid grout consistency is achieved.

When mixing as a mortar, reduce the water content to around 3.25 litres per 25kg of powder to achieve a suitable consistency.

Small quantities can be mixed by hand, care being taken to accurately measure the water.

Once mixed, the material must not be reworked.

NB. Due to the rapid setting times the material should be placed immediately after mixing.

■ Typical performance

Compressive strength (N/mm ²)	Fluid state	Mortar consistency
1 day	13-15	43-45
3 days	33-35	-
7 days	38-40	65-68
28 days	48-50 Typical	84-87

Water/solid ratio	0.22	0.13
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Flexural strength (N/mm ²)	
1 day	3-3.5
3 days	5-5.5
7 days	5.75-6.25
28 days	6.75-7.25

Expansion results (%)	
1 day	0.003
3 days	0.003

Pot life	
Approximately 45 mins (Can vary with temperature). (Results derived from specimens produced at 0.22 water/solids ratio at 20°C)	

Flow characteristics	
A typical flow-channel figure for KCP Construction Grout would be in the range of 500mm. (The quoted set and flow characteristics are dependent on temperature and type and duration of mixing. Temperatures higher or lower than 20°C for example, will result in reduced or extended setting times).	



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■ Application and placing

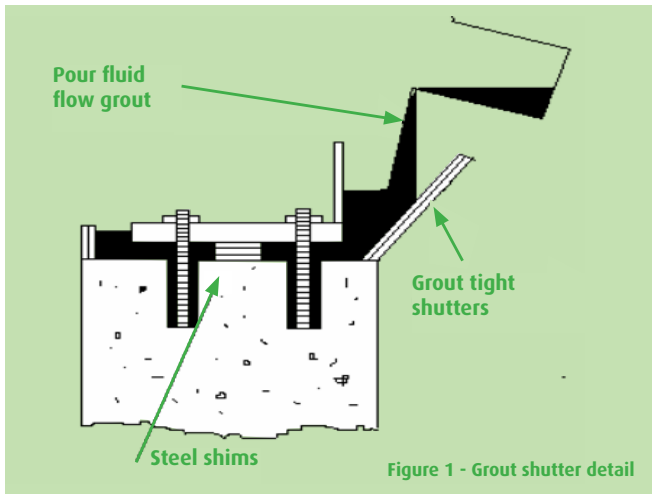


Figure 1 - Grout shutter detail

KCP Construction Grout can either be poured or pumped into position. Due to the relatively short pot life, pumped operations must be executed quickly particularly in warm weather conditions.

For best results the grout should be placed immediately on completion of mixing. Ensure all surfaces with which the grout will come into contact are clean and dust free. Ideally, concrete substrates should be thoroughly soaked for several hours prior to the grout being applied to reduce suction.

Permeable concrete should be treated with a suitable concrete primer such as Acrylic Primer. Shutters must be impermeable to the passage of water and both strong enough and sufficiently supported to contain the placed grout. When gravity placed, sufficient hydrostatic head must be given and grout volume maintained to enable the material to flow completely through the void to be filled from one side of shutter only. A minimum 50mm head is recommended. Immediately prior to placement all excess water should be removed. Any grout exposed to wind or drying conditions should be suitably protected, preferably by coating with a wax-free Curing Agent.

Any grout that is likely to be subject to low temperature immediately after placing or during its early strength development should be protected by covering with hessian or other insulative material. For concreting in cold weather reference should be made to BS8110 Pt. 1 Section 6.

Any grout that is likely to be subject to low temperature immediately after placing or during its early strength development should be protected by covering with hessian or other insulative material. For concreting in cold weather reference should be made to BS8110 Pt. 1 Section 6.

See **Figure 1** for shutter detail for pouring KCP Construction Grout

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■ Quality control

All KCP products are factory blended, tested and packaged to quality control procedures in accordance with BS EN ISO 9001

■ Clean up and spillages

Dry powders should be swept up and disposed of in accordance with the Local Authority.

■ Packaging and storage

KCP Construction Grout is available in nominal 25kg sacks, palletised and shrink wrapped. KCP Construction Grout may also be available in Intermediate Bulk Containers or in Bulk Powder Tankers.

Palletised KCP Construction Grout should be stored in cool dry areas clear of the ground, sheeted or under cover and stacked not more than two pallets high. The product should be used on a first in – first out basis.

Shelf life is 6 months in paper bags and 12 months in plastic bags (from the date shown on the bag), subject to correct storage conditions.

■ Information, prices & ordering

For technical information, pricing and to place orders contact our offices see below:

Health & safety

Health and safety advice, which must be followed, can be found on the Material Safety Data Sheet. Users are advised to wear face mask, goggles, gloves and overalls when handling, mixing and applying cementitious products. Contains Portland Cement.

Contains Chromium (VI), which may produce an allergic reaction. Clothing contaminated by wet cement should be removed immediately and washed before reuse. R38 - Irritating to skin. R41 - Risk of serious damage to eyes. S26 - In case of contact with eyes, rinse immediately with water and seek medical advice. S37/39 - Wear suitable gloves and eye/face protection. S2 - Keep out of reach of children



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

1.1. Product identifier substance name:

KCP Construction Grout

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

Uses: Refer to relevant Technical Data Sheet

Uses advised against: Refer to relevant Technical Data Sheet

1.3. Company identification

Name: Kestral Construction Products Ltd
Address: Unit 2, Central Trading Estate, Bewsey Road,
Warrington, Cheshire WA2 7LP
Telephone: 01744 830001
Fax: 01744 830002
Email: sales@kestral.net

1.4. Emergency telephone

UK/European Emergency Number: 999/112

Kestral Construction Products Ltd (during office hours): 01744 830001

SECTION 2: HAZARDS IDENTIFICATION

- Irritating to eyes and skin. Risk of serious damage to eyes. May cause burns in the presence of moisture due to generation of strong alkaline solution of calcium hydroxide.
- May cause allergic dermatitis due to the sensitivity of an individual's skin to soluble chromium (VI) in the presence of moisture.
- Dust may cause irritation of the respiratory tract.

2.1 Classification of the substance or mixture:

2.1.1 Classification according to Regulation (EC) 1272/2008:

Hazard class	Hazard category	Classification procedure
Skin irritation	2	On the basis of test data
Serious eye damage/eye irritation	1	On the basis of test data
Skin sensitisation	1	On the basis of literature survey
Specific target organ toxicity single exposure respiratory tract irritation	3	On the basis of literature survey

2.1.2 Classification according to Directive 1999/45/EEC: Xi Irritant

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2.2 Label elements

2.2.1 Labelling according to Regulation (EC) 1272/2008:

Signal word: Danger

Hazard pictogram:



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 CENTRE or doctor/physician.

P302+P352+P333+P313: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

P261+P304+P340+P312: Avoid breathing dust/fumes, gas, mist, vapours, spray. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician.

P501: Dispose of contents/container according to local regulations.

Supplemental information:

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

May cause damage to products made of aluminium or other non-noble metals.

2.2.2 Labelling according to Directive 1999/45/EEC:

Signal word: Xi - Irritant

Hazard pictogram:



Xi

Risk phrases:

R37/38 Irritating to respiratory system and skin.

R41 Risk of serious damage to eyes.

R43 May cause sensitisation by skin contact.

Safety phrases:

S2 Keep out of reach of children.

S22 Do not breathe dust.

S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S46 If swallowed, seek medical advice immediately and show this container or label.

2.3 Other hazards

Long term exposure to dust can lead to the development of lung disease during mechanical cutting, grinding or sanding of the set product.

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SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Mixtures:

KCP Construction Grout is a blend of Portland cement and fillers.

Hazardous Ingredient - calcium hydroxide Ca(OH)₂ generated on contact with water.

Hexavalent chromium salts dissolve in water.

Under CLP EC 1272/2008

Ingredient	%	Reach No.	CAS No.	EC No.	CLP Hazard Category	Hazard Statements
Ordinary Portland Cement (OPC)	5-30	N/A	65997-15-1	266-043-4	(1) STOT SE 3 (2) Skin irritation 2 (3) Serious eye damage/eye irritation 1 (4) Skin sensitization 1	(1) H335 – May cause respiratory irritation (2) H315 – Causes skin irritation (3) H318 – Causes serious eye damage (4) H317 – May cause an allergic skin reaction

Under DPD EC1999/45

Ingredient	%	Reach No.	CAS No.	EC No.	Symbol	Risk Phrase
Ordinary Portland Cement (OPC)	5-30	N/A	65997-15-1	266-043-4	Xi - Irritant	R37/38 – Irritating to respiratory system and skin R41 – Risk of serious damage to eyes R43 – May cause sensitization by skin contact

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

4.1.1 Routes of exposure;

Inhalation (dust)	Move to fresh air. Dust in throat and nasal passages should clear spontaneously. Seek medical attention if irritation persists or later develops or if discomfort, coughing or other symptoms persist.
Eye contact	Speed is essential. Immediately wash eyes with plenty of eyewash solution or running water, holding eyelids apart for 15 minutes. Do not rub eyes in order to avoid possible cornea damage as a result of mechanical stress. Always seek further specialist medical/eye specialist attention to check that all particles have been removed.
Skin contact	Remove affected clothing, footwear, watches, jewellery etc. Wash skin with soap and water immediately. Wash contaminated clothing before re-use. Seek medical attention if irritation occurs.
Ingestion	Immediately rinse mouth and drink plenty of water. Do not induce vomiting. Seek immediate medical advice if person becomes uncomfortable. Show the container or label used.

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

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

Skin: Product 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 mortar or concrete may cause serious burns because they develop without pain being felt (for example when kneeling in wet product even when wearing trousers).

Inhalation: Irritating to the respiratory tract in high concentration.

Environment: Under normal use, this product is not hazardous to the environment.

4.3 Indication of any immediate medical attention and special treatment needed;

When contacting further medical advise. Show container, label or this SDS sheet.

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SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media:

5.1.2 Suitable extinguishing media; The product is not combustible. Use a dry powder, foam or CO₂ fire extinguisher to extinguish the surrounding fire. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.1.3 Unsuitable extinguishing media; None identified.

5.2 Special hazards arising from the substance or mixture: None identified.

5.3 Advice for fire fighters: None identified.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

6.1.1 For Non-emergency personnel; Wear suitable protective equipment (see section 8).

6.1.2 For emergency responders; N/a

6.2 Environmental precautions: Do not wash product down sewage and drainage systems or into bodies of water (eg streams).

6.3 Methods and material for containment and cleaning up:

Dry product; Use cleanup methods such as vacuum cleaning-up or vacuum extraction fitted with EPA/HEPA air filters which do not cause airborne dispersion. Never use compressed air.

Alternatively, wipe-up the dust by mopping, wet brushing or by using water spray or hoses (fine mist to avoid dust becoming airborne) and remove slurry.

If not possible, remove by slurring with water (see wet product).

If only dry cleaning by brushing can be done, ensure all appropriate personnel wear correct PPE including dust mask and eye protection at all times (see section 8).

Avoid inhalation of dust and place in a container and dispose of as detailed in section 13.

Wet product: Clean up wet material and place in container or controlled location. Allow material to dry and solidify before disposal as detailed in section 13.

6.4 Reference to other sections: For more information on exposure controls/personal protection or disposal considerations, please check section 8 and 13 and the Appendix of this safety data sheet.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

7.1.1 Protective Measures; Do not ingest. Avoid contact with skin. Avoid contact with eyes.

Wear protective equipment (refer to section 8 of this safety data sheet). Avoid generating dust.

7.1.2 Advice on general occupational hygiene; General occupational hygiene measures are required to ensure safe handling of the product. These measures involve good personal and housekeeping practices. Wash hands after use if contaminated. Avoid wearing contaminated clothing. Do not handle or store near food and beverages or smoking material. In dusty environment, wear dust mask, protective goggles and gloves.

7.2 Conditions for safe storage, including any incompatibilities: Bulk materials should be stored in silos that are waterproof.

Packed products should be stored in unopened bags clear of the ground in cool, dry conditions and protected from excessive draught, excesses in temperatures in order to avoid degradation of quality. Bags should be stacked in a stable manner.

Do not use aluminium containers due to incompatibility of the materials.

7.3 Specific end use(s): No additional information for the specific end users.

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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

Workplace exposure limits: The following Workplace Exposure Limits (WEL's) for airborne dust are given in HSE Guidance Note EH40:

Total dust -	W.E.L. 10mg/m ³	8 Hrs T.W.A.
Respirable dust -	W.E.L. 4mg/m ³	8 Hrs T.W.A.
Crystalline Silica - (Respirable)	W.E.L. 0.1mg/m ³	8 Hrs T.W.A.




W.E.L. = Workplace Exposure Limit T.W.A. = Time Weighted Average

8.2 Exposure controls:

8.2.1 Appropriate engineering controls;

Measures to reduce generation of dust and to avoid dust propagating in the environment such as regular housekeeping, exhaust ventilation and dry clean-up methods which do not cause airborne dispersion.

8.2.2 Individual protection measures, such as personal protective equipment:

8.2.2.1 Eye/face protection		Wear approved glasses or goggles according to EN 166 with anti-mist for eye protection when handling wet or dry material.
8.2.2.2 Skin protection		Overalls and/or long-sleeved jackets and full length trousers should be worn to protect skin from contact with wet products. Outer clothing should be waterproof if contact with wet product is likely. Wear impermeable boots to protect feet. Safety wellington boots should be worn if working with wet product, with waterproof trousers pulled over them to help prevent product entering the boots. If the product saturates clothing, or enters gloves or boots, remove the articles immediately and wash before wearing again.
8.2.3.3 Respiratory protection		When a person is potentially exposed to dust levels above exposure limits, an appropriate respirator must be used dependant on expected dust levels.
8.2.2.4 Thermal Hazards		The substance does not represent a thermal hazard, thus special consideration is not required.
8.2.3.5 Environmental Exposure Control		Not relevant unless large volume of product enter the watercourse.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance:	Wet Product – semi solid state Dry Product – dry powder
Odour:	Slight, earthy odour
Odour threshold:	N/a
pH:	11-13.5, (20°C in water, water solid ratio 1:2)
Melting point:	1250 (typical)
Boiling point:	Not determined
Flash point:	N/a
Evaporation rate:	N/a
Flammability:	Non flammable
Explosive limits:	Non explosive
Vapour pressure:	N/a
Vapour density:	0 at 20°C
Relative density:	3.0 (typical)
Solubility in water:	Some components sparingly soluble
Partition coefficient:	N/a
Auto ignition temperature:	N/a
Decomposition temperature:	N/a
Viscosity:	N/a
Oxidising properties:	No oxidising properties

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: When mixed with water, will harden into a stable mass that is not reactive in normal environments.

10.2 Chemical Stability: Stable product under recommended storage and handling conditions.

10.3 Possibility of hazardous reactions: This product does not cause hazardous reactions.

10.4 Conditions to avoid: Dry Products – avoid humid conditions which may cause lump formation and loss of product quality.

10.5 Incompatible Materials: Acids, ammonium salts, aluminium or other non-noble metals. Uncontrolled use of aluminium powder in wet product should be avoided as hydrogen is produced.

10.6 Hazardous Decomposition Products: This product does not decompose into any hazardous products.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Toxicity endpoints	Outcome of the effects assessment
Acute toxicity	Based on available data, the classification criteria are not met
Skin corrosion/irritation	Category 2: When in contact with wet skin may cause thickening, cracking or fissuring on the skin. Prolonged contact in combination with abrasion may cause severe burns
Serious eye damage/irritation	Category 1: Direct contact may cause corneal damage by mechanical stress, immediate or delayed irritation or inflammation. Direct contact by large amounts may cause effects ranging from moderate irritation to chemical burns and blindness

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11.1 Information on toxicological effects (continued)

Toxicity endpoints	Outcome of the effects assessment
Respiratory or skin sensitisation	Category 1 Some individuals may develop eczema upon exposure by either the high pH which induces irritant contact dermatitis after prolonged contact, or by an immunological reaction to soluble Cr(VI) which elicits allergic contact dermatitis. The response may appear in a variety of forms ranging from a mild rash to severe dermatitis. If the product contains a soluble Cr (VI) reducing agent and as long as the period of effectiveness of the agent is not exceeded, a sensitising effect is not expected. There is no indication of sensitisation of the respiratory system
Repeated dose toxicity	Based on available data, the classification criteria are not met
Germ cell mutagenicity	Based on available data, the classification criteria are not met
Carcinogenicity	Based on available data, the classification criteria are not met
Toxicity for reproduction	Based on available data, the classification criteria are not met
STOT – single exposure	Category 3: Dust exposure may irritate the throat and respiratory tract. Coughing, sneezing, and shortness of breath may occur following exposures in excess of occupational exposure limits
STOT – repeated exposure	There is an indication of Chronic Obstructive Pulmonary Disease. The effects are acute and due to high exposures. No chronic effects or effects at low concentrations have been observed
Aspiration hazard	Not applicable as this products are not used as an aerosol

Information on likely routes of exposure: Contact with skin, eyes, ingestion and dust inhalation.

Symptoms relating to the physical, chemical and toxicological characteristics: Dust exposure may irritate the throat and respiratory tract. Coughing, sneezing, and shortness of breath may occur following exposures in excess of occupational exposure limits. When in contact with wet skin may cause thickening, cracking or fissuring on the skin. Prolonged contact in combination with abrasion may cause severe burns. Some individuals may develop eczema upon exposure by either the high pH which induces irritant contact dermatitis after prolonged contact, or by an immunological reaction to soluble Cr(VI) which elicits allergic contact dermatitis.

Delayed and immediate effects as well as chronic effects from short and long-term exposure: Delay in treating eye contact can lead to serious and permanent eye damage. Long term exposure to dust above the exposure limits can lead to lung disease.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity: The product is not hazardous to the environment. The addition of large amounts of the product to water may however, cause a rise in pH and may, therefore, be toxic to aquatic life under certain circumstances.

12.2 Persistence and Degradability: Not relevant as this product is an inorganic material. After hardening, it presents no toxicity risks.

12.3 Bioaccumulative potential: Not relevant as this product is an inorganic material. After hardening, it presents no toxicity risks.

12.4 Mobility in Soils: Not relevant as this product is an inorganic material. After hardening, it presents no toxicity risks.

12.5 Results of PBT and vPvB assessment: Not relevant as this product is an inorganic material. After hardening, it presents no toxicity risks.

12.6 Other adverse effects: No other adverse effects are identified.

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Product – has exceeded its shelf life (indicated on packaging); and when demonstrated that it contains more than 0.002% Cr (VI): shall not be used/sold other than for use other than for use in controlled closed and totally automated processes or should be recycled or disposed of according to local legislation or treated again with reducing agent.

Product – unused residue or dry spillage; Pick up dry unused residue or dry spillage as is (refer to Section 6). Mark up containers. Possibly reuse depending upon shelf life considerations and the requirements to avoid dust exposure. In case of disposal, harden with water and dispose according to section 6.3 above.

Product – slurries; Allow to harden, avoid entry in sewerage and drainage systems or into bodies of water. Dispose of as hardened product as concrete waste. This is not classed as a dangerous waste.

LoW/EWC entries; 16 03 04 - inorganic wastes containing no dangerous substances.
 17 01 01 - construction and demolition wastes – concrete.

Packaging; Completely empty and clean packaging and process in accordance with local legislation.

LoW/EWC entry: 15 01 01 - waste paper and cardboard packaging
 15 01 02 - plastic packaging

If packaging is contaminated; 20 03 01 – mixed municipal waste

SECTION 14: TRANSPORT INFORMATION

These products are not classified as hazardous for transport. No special precautions are needed apart from those mentioned under Section 8.

14.1 UN number – not relevant

14.2 UN proper shipping name – not relevant

14.3 Transport hazard class(es) – not relevant

14.4 Packing group – not relevant

14.5 Environmental hazards - not relevant

14.6 Special precautions for user - not relevant

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code - not relevant

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance: The product contains Ordinary Portland Cement which is a mixture that is not subject to registration according to REACH. Cement clinker is exempt from registration (Art2.7(b) and Annex V.10 of REACH).

Workplace Exposure Limits – HSE Guidance note EH40.

Control of Substances Hazardous to Health latest Regulations.

The marketing and use of these products 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:

A chemical safety assessment has not been carried out for this substance.

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SECTION 16: OTHER INFORMATION

16.1 Hazard Statements: H318: Causes serious eye damage.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H335: May cause respiratory irritation.

16.2 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 CENTRE or doctor/physician.

P302+P352+P333+P313: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

P261+P304+P340+P312: Avoid breathing dust/fumes, gas, mist, vapours, spray. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician.

P501: Dispose of contents/container according to local regulations.

16.3 Risk Phrases: R37/38 Irritating to respiratory system and skin.

R41 Risk of serious damage to eyes.

R43 May cause sensitisation by skin contact.

16.4 Safety Phrases: S2 Keep out of reach of children.

S22 Do not breathe dust.

S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S46 If swallowed, seek medical advice immediately and show this container or label.

16.5 Abbreviations: STEL: short-term exposure limit.

TWA: time weighted average.

vPvB: very persistent, very bioaccumulative chemical.

16.6 Key Literature References: Suppliers; Safety Data Sheets. In-house data files. HSE Guidance Note EH40. Supplier's safety data sheets. PPE Regulations.

COSHH Regulations.

Environmental Protection Act.

European Cement Association - CEMBUREAU

16.7 Revision: Version Number:1

Date Prepared: May/2013

Supersedes; N/a

Nature of Revision - This version produced in reference to Annex II of the REACH Regulation (EC) 1907/2006 as amended by Regulation 453/2010.

Disclaimer

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APPENDIX: Exposure Scenarios: N/a

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