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Safety Data Sheet

PRODUCT: Unitex® Beach Render

DATE OF ISSUE: 8th July 2015

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Information

Trade name: Unitex® Beach Render

Company: Unitex Granular Marble Pty Ltd
22 Park Drive
Dandenong, Vic. 3175
Australia

Telephone: +61 3 9768 4900
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Emergency telephone Number: +61 3 9768 4900 (BH)

Use of the Product: render for coating over masonry and rendered surfaces

2. HAZARDS IDENTIFICATION

THIS PRODUCT IS CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF NOHSC

The product contains Portland cement, Fly Ash, washed sand and organic functional additives. Portland cement and Fly Ash are classified as a Hazardous Substances, Non-Dangerous Goods according to the criteria of NOHSC. All other components are classified as Non Hazardous, Non Dangerous Goods.

Risk phrases for Portland cement are:

R36/37/38: Irritating to eyes, respiratory system and skin
R40: Possible risk of irreversible effects
R43: May cause sensitization by skin contact
R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation

Safety Phrases for Portland cement

S22: Do not breathe dust
S24/25: Avoid contact with skin and eyes
S36/37: Wear suitable protective clothing and gloves

MATERIAL SAFETY DATA SHEET

CLADDING | RENDERS | TEXTURES | MOULDINGS + COLUMNS | ACCESSORIES
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Unitex Render Warehouse (SA) Pty Ltd ACN 601 059 929 ABN 96 601 059 929



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The chemical composition of the product is essentially oxides of various elements, the most prevalent being oxides of calcium Ca, silica Si, aluminium Al, iron Fe, titanium Ti, chromium Cr (mostly as insoluble Cr III but it is possible that water soluble Cr IV could be present at concentrations of less than 10 ppm). Trace amounts of oxides of magnesium Mg, potassium K and phosphorus P may also be present. As cement is a blended product, crystalline silica at levels less than 0.1 % may be present.

Risk phrases for Fly Ash are:

R20 Harmful by inhalation
R36/37/38 Irritating to eyes, respiratory system and skin
R40 Possible risk of irreversible effects

Safety Phrases for Portland cement

S22 Do not breathe dust
S24/25 Avoid contact with skin and eyes
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection
S38 In case of insufficient ventilation, wear suitable respiratory protection
S51 Use only in well ventilated areas

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Proportion
Silicon dioxide, non-respirable	14808-60-7	65-75 %
Portland cement	65997-15-1	15-25 %
Gypsum	10101-44-4	< 2 %
Limestone	1317-65-3	< 1 %
Polyvinylchloride/ethylene/vinyl laurate polymer	52383-89-8	< 0.5 %
Fly Ash	63131-74-8	5-10 %
containing		
Crystalline silica (quartz), respirable	14808-60-7	< 0.1 %
Mullite	1302-93-8	< 2 %

4. FIRST AID MEASURES

4.1 Health Effects

Swallowed

Health effects Is mildly abrasive and corrosive and may cause nausea/stomach cramps/constipation. Unlikely under normal conditions of use.

First Aid: Rinse mouth with milk or water. DO NOT give carbonated (fizzy) drinks. DO NOT induce vomiting. After rinsing the mouth, give plenty of water to drink. If symptoms persist, seek medical attention.

Eyes

Health effects Irritating and corrosive to the eyes. May cause chemical conjunctivitis, redness, watering and damage to the cornea.

First Aid: Flush eyes with tepid running water for at least 15 minutes, removing any foreign bodies. Seek medical attention if symptoms persist.

Skin Health effects: Irritating and drying to skin – can result in irritant dermatitis from mechanical abrasion. Wet mortar is irritating and corrosive to skin and may cause skin sensitization (dermatitis). There may be a trace of hexavalent chromium present in Portland cement which may cause allergic dermatitis in some individuals.

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First Aid Wash with tepid soapy water; shower if necessary.

Inhaled

Health effects: Irritating to the nose, throat and respiratory tract causing coughing and sneezing. Repeated inhalation of the dust may cause bronchitis, silicosis and lung cancer.

First Aid: Remove to fresh air. Keep at rest. Seek medical advice if symptoms persist.

4.2 Chronic Health Effects

Inhalation of high levels of fly ash may result in severe inflammation of the small airways of the lung and asthma-like symptoms. Repeated inhalation of dust containing crystalline silica may cause bronchitis, silicosis (scarring of the lung) and lung cancer. It may also increase the risk of scleroderma (a disease affecting the connective tissue of the skin, joints, blood vessels and internal organs). The International Agency for Research on Cancer (IARC) states: "Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1)."

Advice to Doctor

Treat symptomatically.

Aggravated Medical Conditions Caused by Exposure

Studies have shown that smoking increases the risk of bronchitis, silicosis and lung cancer in persons exposed to crystalline silica. It is recommended that all storage and work areas should be smoke free zones.

5. FIRE-FIGHTING MEASURES

Hazchem Code	None allocated
Flammability	Not flammable
Extinguishing media	None required
Hazards from combustion products	None – does not decompose on heating
Special Protective Precautions & Equipment for Fire Fighters	None

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Avoid generating and breathing dust. If dust is generated, wear a class P1 or P2 particulate respirator (AS/NZS 1715, 1716).

Containment Procedures

A fine water spray should be used to suppress dust when sweeping.

Clean-up Procedures

Work areas should be cleaned regularly by wet sweeping or vacuuming. If dust generation cannot be avoided, follow PERSONAL PROTECTION recommendations.

7. HANDLING AND STORAGE

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Safe Handling Advice

Provide good ventilation or extraction.

Wear personal protective equipment

Unitex® Beach Render is packed in 20 kg multi-ply paper sacks. It is recommended that all manual handling of products greater than 15 kg be undertaken by load shifting equipment. Manual handling of this product is not recommended as this may result in personal injury. If no mechanical aids are available, you must not lift this product unless you share the load with 2 or more persons for weights up to 20 kilograms and 3 or more persons up to 40 kilograms. For weights greater than 40 kilograms, mechanical aids for load shifting must be used. Prior to manual handling, it is recommended that a manual handling risk assessment be undertaken.

Use local mechanical ventilation or extraction in areas where dust could escape into the work environment.

Personal safety requirements are outlined in Section 6, Exposure Control / Personal Protection.

Conditions for Safe Storage

Unitex® Beach Render should be stored in a dry place, in their original unbroken multi-ply paper sacks. Avoid moisture to prevent hardening. When stored correctly in dry, unopened sacks, a shelf life of 6 months ought to be expected.

Drivers of trucks transporting Unitex® Beach Render should ensure that the paper sacks are correctly restrained on a pallet.

Incompatibilities None

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure Limits

Unitex® Beach Render is supplied as a blended dry powder. Prior to application, the powder is mixed with water and mixed to a smooth, viscous slurry and is then trowel or spray applied onto masonry surfaces such as brick walls. As Unitex® Beach Render contains both Portland cement and Fly Ash as major components, it is classed as a Hazardous, Non-Dangerous product.

For the blended dry powder, the National Exposure Standard from NOHSC is:

Total dust, containing no asbestos and < 1 % crystalline silica, Threshold Limit Value (TLV) Time Weighted Average (TWA) is 10 mg/m³ measured as respirable dust.

Crystalline silica (quartz): 0.2 mg/m³ TWA as respirable dust (< 7 micron particle equivalent aerodynamic diameter).

Respirable crystalline silica (quartz) exposure levels should be kept below a recommended upper threshold limit of 0.05 mg/m³ TWA.

However, where a State or Territory prescribes a lower exposure standard, the lower expansion standard applies.

When wet, Unitex® Beach Render, particularly in slurry form, can dry the skin and cause alkali burns. Continued exposure to individuals who are allergic to chromium, could cause severe allergic dermatitis.

8.2 Engineering Controls

Avoid generating dust. All work with Unitex® Beach Render should be carried out in such a way as to minimize exposure to dust and repeated skin contact. Where dust could be generated whilst handling the product, use local mechanical ventilation or extraction in areas where dust could escape into the work environment.

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Work areas should be cleaned regularly by wet sweeping or vacuuming. If generating dust cannot be avoided, see personal protection recommendations below.

8.3 Ventilation

Where practical, the workplace should be well ventilated with suitable means of dust collection/suppression equipment so as to maintain acceptable airborne dust levels. Persons with a history of respiratory illness or reduced pulmonary function should avoid work places with high dust levels.

8.4 Personal Protection

Skin

Wear loose comfortable protective clothing and impervious boots. Apply barrier creams to hands or wear cotton or light duty leather gloves (AS/NZS 2161). Wash thoroughly after handling. Wash clothes regularly and keep separate from other clothes.

Eyes

Safety spectacles with side shields or safety goggles (dust resistant AS/NZS 1336) should be worn if dust is likely to be generated.

Respiratory

None required if engineering controls are adequate. If dust is generated, wear a class P1 or P2 particulate respirator (AS/NZS 1715). Use only respirators which bear the Australian Standards mark and are fitted correctly. Note that persons with facial hair will have difficulty in obtaining a satisfactory face seal. For alternatives, see AS/NZS 1715: Selection and maintenance of Respiratory Protective Devices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Blended powder – off-white in shade
Odour	None
pH	alkaline slurry formed with water
Density	approx 2.5 - 3.0 g/cm ³
Boiling point	not applicable
Freezing/Melting point	> 1400 °C
Vapour density	not applicable
Vapour pressure	not applicable
Solubility	Essentially insoluble. However, some components are slightly soluble in water forming an alkaline (caustic) product
Flash point	not applicable
Ignition temperature	not applicable
Additional Information	Respirable Fraction: approximately 10-20 % of particles are below 7 microns in diameter (in the respirable range)

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10. STABILITY AND REACTIVITY

Chemical Stability	Chemically stable
Conditions to avoid	None
Incompatible Materials	None
Hazardous Decomposition Products	None
Hazardous Reactions	Avoid reaction with hydrogen fluoride (hydrofluoric acid) and other fluorine containing compounds

11. TOXICOLOGICAL INFORMATION

Health effects from the likely routes of exposure	Refer Section 4: FIRST AID MEASURES
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12. ECOLOGICAL INFORMATION

Ecotoxicity	No information available. Product may be eco-damaging as it can form an alkaline slurry with water.
Persistence & Degradability	Product would be persistent and have a low degradability.
Mobility	No information available. A low mobility would be expected in a landfill setting.

13. DISPOSAL CONSIDERATIONS

Disposal Methods & Containers	Follow safety requirements indicated in Section 6. Collect in containers and dispose as trade waste in accordance with local authority guidelines.
Special considerations for landfill or incineration	Avoid generating dust during disposal..

14. TRANSPORT INFORMATION

UN Number	None allocated
UN Proper shipping Name	None allocated
Class & Subsidiary Risk	Not applicable
Packaging Group	None allocated

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Special Precautions for Use Avoid generating and breathing dust

Hazchem Code None allocated

15. REGULATORY INFORMATION

Australian Legislation Hazardous according to criteria of NOHSC..

Poison schedule Not listed

Registration
Australia (AICS) Listed/registered
New Zealand (ERMA) Listed/registered

16. OTHER INFORMATION

Date amended and issued 8th July 2015

Prepared in accordance with the National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition (NOHSC: 2011 (2003))

END OF REPORT

This information contained herein relates only to the specific material identified. Unitex Granular Marble Pty Ltd believes that such information is accurate and reliable as of the date of this material safety data sheet, but no representation, guarantee or warranty, expressed or implied, is made to the accuracy, reliability or completeness of the information.

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