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MATERIAL SAFETY DATA SHEET (MSDS)

PRODUCT: HILITE RENDER

DATE OF ISSUE: OCTOBER 2007

1. PRODUCT INFORMATION

Product Name:	HILITE RENDER
Uses:	External rendering
UN Number:	Not Applicable
Dangerous Goods Class:	Not Applicable
Hazchem Code:	Not Applicable
Poisons Code:	Not Applicable

2. PHYSICAL DATA

Appearance:	An off white mixture containing finely ground materials (Portland cement, Fly ash, and ground EPS) and sand particles up to 2mm in size.
Boiling Point/ Melting Point (°C):	Not Applicable
Vapour Pressure:	Not Applicable
% Volatiles:	Not Applicable
Specific Gravity:	Average S.G. approximately 1.4
Auto Ignition Temperature:	Not Applicable
Other Properties:	Not Explosive, no odour, hardens on reaction with water. Slightly soluble in water.
Flash Point:	Not Applicable
Flammability Limits:	Not Applicable
Special Fire Fighting:	Not Applicable

3. CHEMICAL DATA

The product contains washed sand and approximately 45% (wt) of binder which is a mixture of Portland cement, Fly ash, and organics. The principal oxides are present in the binder in the following concentrations:-

<u>Binder Composition</u>	<u>Percentage by Weight</u> (in Binder Only)
CAO	60 – 70
SiO ₂	20 – 25
Al ₂ O ₃	6 – 10
FE ₂ O ₃	1 – 5

These materials are present as Calcium, Silica and aluminium

Other oxides present include SO₃ (as gypsum or alkali Sulphate) and small traces of MgO, Na₂O, K₂O, TiO₂ and P₂O₅. Hexavalent chromium may be present in concentration.

Sand is essentially silica with low clay content.

Trace quantities (less than 3.0%) of methyl cellulose, starch ether, and redispersible additives are used to give improved working and adhesive properties.

4. FIRE AND EXPLOSION HAZARD DATA

Flash Point	Not Applicable
Flammability Limits:	Not Applicable
Extinguishing Media:	Not Applicable
Special Fire Fighting:	Not Applicable
Unusual & Explosion Hazards:	Not Applicable

HILITE RENDER is a stable, non-combustible material which does not decompose into hazardous by-products

5. HEALTH HAZARD DATA

5.1 Health Effects

HILITE RENDER contains trace amounts of respirable quartz sand, and care must be taken to avoid excessive amounts of dust.

Short Term Exposure

The Portland Cement content of HILITE RENDER is classified as an inert nuisance dust only. Exposure can irritate skin, eyes and mucous membranes.

Long Term Exposure

Wet Portland Cement, especially as an ingredient in plastic (unhardened) concrete, mortar or slurry, is slightly caustic and can dry the skin, and cause alkali burns. There may also be trace amounts of water soluble hexavalent chromium present in Portland Cement which may cause allergic dermatitis in some individuals. In dust form Portland Cement may cause inflammation of lining tissue of the respiratory system and inflammation of the cornea.

5.2 First Aid

Skin:	Wash with tepid soapy water.
Eyes:	Flush with cool water for at least 10 minutes and seek medical attention.
Swallowed:	Wash mouth and lips with water and seek medical attention.
Inhaled:	Move to fresh air, wash with water and seek medical attention if effects persist.

6. PRECAUTIONS OF USE

6.1 Exposure Limits

Wet Portland Cement, particularly in plastic (unhardened) concrete, mortar or slurry, can dry the skin and cause alkali burns. Continued exposure to individuals who are allergic to chromium, could cause severe allergic dermatitis.

6.2 Ventilation

Where practical, suitable means of dust collection/suppression should be applied as necessary to maintain acceptable air borne dust levels.

Persons with a history of respiratory illness or reduced pulmonary function should avoid work places with high dust levels.

6.3 Personal Protection

In dusty environments, the use of filter masks as in AS1716 (Class A) and tight fitting goggles is advised.

Use of barrier creams or impervious gloves, boots and clothing to protect the skin from contact with dust and wet Portland Cement mortar is recommended.

6.4 Flammability

HILITE is non combustible



7. PRECAUTIONS FOR USE

7.1 Exposure Limits

Wet Portland Cement, particularly in plastic (unhardened) concretes, mortar or slurry, can dry the skin and cause alkali burns. In rare instances continued exposure to cement, by individuals who are allergic to chromium, could cause allergic dermatitis.

7.2 TLU (Threshold Limit Value)

5mg/m³ for total dust. Limit applies to an adult exposed for an 8 hour period, with no adverse effects.

7.3 Ventilation

Where practical, suitable means of dust collection/suppression should be applied as necessary to maintain acceptable air borne dust levels.

Persons with a history of respiratory illness or reduced pulmonary function should avoid work in places with high dust levels.

7.4 Personal Protection

In dusty environments, the use of filter masks as in AS1716 (Class L) and tight fitting goggles are advised.

Use of barrier creams and impervious gloves, boots and clothing to protect the skin from contact with dust and wet Portland Cement mortar is recommended,

Following work with HILITE RENDER, normal hygiene procedures should apply

7.5 Flammability

HILITE RENDER is non combustible

8. SAFE HANDLING INFORMATION

8.1 Handling and Storage

HILITE RENDER should be stored in a dry place, in the original places lined pails.

Drivers of trucks transporting HILITE RENDER should ensure that the pails are correctly restrained on a pallet.

HILITE RENDER is supplied in APPROX. 15 Kg multi-walled paper sacks and recognised local safe lifting methods should be used.

8.2 Spills and Disposal

Spillages should be cleaned up with a broom, shovel or suitable vacuum equipment by suitably attired personnel

9. CONTACT POINT

Telephone: 03 9768 4900

Ask For: Unitex Granular Marble Operations Manager