

DATED: 14 May 2004

MATERIAL SAFETY DATA SHEET**IDENTIFICATION**

Product Name:	'Leviathan [®] ' Matte dry mix.		
Description:	A fully formulated VOC-free, high build, high solids (100%) hydrated lime/sugar/casein resin bound surface coating material supplied as a white or coloured powder . Being lime based 'Leviathan [®] ' powder is alkaline and partially caustic and will cause burns to all mucous membranes, mouth, oesophagus (gullet) and stomach. It is intended to be carefully mixed thoroughly into a specific, <i>recommended</i> , relatively low proportion of drinkable water at the building site to make a liquid paintable coating material (liquid paint 'slurry') prior to its immediate application.		
UN No:	None	Hazchem:	None
CAS Number:		Poisons Schedule:	None
Hydrated Lime:	1305-62-0		
Sucrose:	57-50-1		
Casein:	9005-46-3		
Ground Granulated Blast Furnace Slag:	65996-69-2		
Silica Fume:	7631/86/9		
'E-SPHERES[®]':	68131-74-8 (strong, hollow ceramic microspheres and macrospheres of fused alumino silicate)		
Dangerous Goods/and Subsidiary Risk:	Non Applicable		
Use:	Cementitious (lime-based) 'Leviathan [®] ' Matte is used as a long-life, high build, insulative, flat, matte, smooth finish paintable coating for roofs, ramps, walls and pavements, and as line and directional marking for roads and highways. The prepared liquid coating is typically applied with tools/equipment used for normal painting such as brushes, brooms, rollers as well as with suitable spray application equipment.		
pH of slurry:	11.6 approximately		

PRECAUTIONS FOR USE

Personal Protection:	To protect the skin wear suitable protective clothing, gloves (AS 2161), and eye protection (AS/NZS 1337). Also wear a suitable nose and mouth mask to protect yourself from dust inhalation or a respirator (AS/NZS 1715 and 1716). Wash skin thoroughly after handling. Wash work clothes regularly and separately from other clothes.
Threshed Limit Value (TLV):	2 mg/m ³ for inspirable dust. Alkaline 'Leviathan [®] ' Matte, particularly in liquid slurry (unhardened) form, can dry the skin and cause alkali burns. Continued exposure to individuals who are allergic to chromium, may cause allergic dermatitis or eczema of the skin.

* Registered Trade Mark of Envirospheres Pty Ltd, Sydney, NSW. Ability Building Chemicals Co is a supplier of 'E-SPHERES[®]' in 7 different particle size grades. These are available for immediate sale ex-stock, West Heidelberg, Victoria, Australia.

PRECAUTIONS FOR USE (Continued):

Ventilation:	Where practical, suitable means of dust collection/suppression should be applied as necessary to maintain acceptable air borne dust levels. <i>Persons with a history or respiratory illness or reduced pulmonary function should avoid work places with high dust levels.</i>
Flammability:	The product is non-combustible. Do not use this fine powder product in confined areas with limited air space. Avoid the possibility of fire caused by fine dust near naked flames, static electricity, electrical sparks or in an explosive atmosphere – especially where gas may be leaking.

SAFE HANDLING INFORMATION

Handling and Storage:	‘Leviathan [®] ’ Matte dry mix should be stored in containers that prevent ingress of moisture as this will cause it to set and harden in storage. The container in which it is supplied is the best form of storage otherwise store in suitable size containers so that each is full without an air space and that has a tight fitting lid.
Spills and Disposals:	Spills may be cleaned up carefully by any dry method without producing dust with personal protection clothing worn and safety equipment items being used by clean-up personnel. Collect in containers for disposal as trade waste in accordance with your local authority laws and guidelines.

PHYSICAL DESCRIPTION

Appearance:	‘Leviathan [®] ’ Matte is a fine powder. It is manufactured and may be supplied in white or virtually any pastel colour on firm advance order from Ability.
Boiling/Melting Point (°C):	Some components begin to melt at high temperatures (> 180°C).
Vapour Pressure:	Not applicable.
Specific Gravity:	1.5 - 1.7
Flash point:	Not applicable.
Flammability Limits:	Not applicable.
Other Properties:	Not explosive. Virtually no odour. Faint sweet smell. The material is hydraulic – it sets and hardens on mixing with and under water. Partially soluble in water.

HEALTH HAZARD INFORMATION

Swallowed:	Corrosive (caustic) action. Gastric ulcers may occur.
Eye:	Short-term exposure, irritating. Long-term exposure, irritating and mildly corrosive. It may cause inflammation of the cornea.
Skin:	Short-term exposure: irritating. Long-term exposure: Both the ‘Leviathan [®] ’ Matte powder, and when it is mixed into water to produce the liquid coating slurry material, is caustic and can dry the skin. There are also trace amounts of water-soluble hexavalent chromium present in the lime (0-20 ppm) component and in some individuals, this may cause allergic dermatitis.

Health Effects:

Inhaled:

Irritating. Long-term exposure may cause inflammation of lining of the respiratory system.

Repeated inhalation of dust containing crystalline silica can 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).

Studies have shown that smoking increases the risk of bronchitis. Silicosis and lung cancer in persons exposed to crystalline silica.

Small quantities of crystalline silica may be present in this product as a result of impurities in its ingredients. Crystalline silica is present in greater quantities in mortar by reason of the addition of sand. Dust could be inadvertently inhaled during the dry cutting of mortar.

First Aid:

Swallowed:

Wash mouth and lips with copious amounts of clean, drinkable water. **Do not induce vomiting.** Give water containing sugar or milk to drink. Seek medical attention.

Skin:

Wash with tepid (lukewarm) soapy water. A shower may be required.

Eyes:

Irrigate with copious clean tap water for at least fifteen (15) minutes. Seek medical attention.

Inhaled:

persist.

Move to fresh air, wash with water and seek medical attention if effects

Exposure Limits:

‘Leviathan[®]’ Matte powder is classified as a nuisance dust.

Advice to Physician:

Contact a poisons information centre and treat as for Calcium Hydroxide (lime) used for making lime/cement mortar.

CONTACT:

MR PETER GRAY

ABILITY BUILDING CHEMICALS CO WAREHOUSE AND OFFICE:

(PO BOX 391)

124-126 NORTHERN ROAD

WEST HEIDELBERG

VICTORIA, 3081, AUSTRALIA.

Email: service@abilityproducts.com.au

TEL: (03) 9457 6488

INTERNATIONAL TEL: +61 3 9457 6488

FAX: (03) 9458 4683

INTERNATIONAL FAX: +61 3 9458 4683

Website: www.abilityproducts.com.au

The information provided in this MSDS is correct to the best of our knowledge, information and belief at the date of publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty, guarantee, a statement of quality or a recommendation for a specific use. The information relates only to the specific material designated and may not be valid for its use with any other materials or in any process unless specified herein.

MR PETER GRAY – Manager

MR MICHAEL TREACY – Production Manager

THIS ENDS THE MSDS