

# Helifix (Australia) Pty Ltd

## MATERIAL SAFETY DATA SHEET

### 1. Identification of Material and Supplier

<b>Product Name</b>	<b>Helibond MM3 Grout</b>		
<b>Other Names</b>	n.all.		
<b>Recommended Use</b>	HeliBond MM3 is a high performance, non-gassing, thixotropic, cement based grout, suitable for injection with a hand or power applicator. HeliBond is supplied packed in a pail containing two packs of dry powder and two packs of liquid ready for mixing as a "set".		
<b>Supplier Name</b>	<b>Helifix (Australia) Pty Ltd</b>		
<b>Address</b>	<b>Unit 24, 34-36 Ralph Street, Alexandria NSW, Australia 2015</b>		
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<b>Emergency Telephone</b>	<b>61 2 9669 1701</b>	<b>Technical Support</b>	<b>61 2 9669 1701</b>

### 2. Hazards Identification

<b>Hazard Classification</b>	<b>This product is hazardous according to the criteria of the NOHSC (Applicable to powder components only). All components are listed on the AICS.</b> Not a DG substance according to the ADG Code. Not a scheduled poison according to the SUSDP.
<b>Risk Phrases</b>	Both parts: R 36 Irritating to the eyes, R 43 May cause sensitisation by skin contact. Powder component: Contains Crystalline Silica - a Category 1 Carcinogen: R 20 Harmful by inhalation, R 49 May cause cancer by inhalation (of powder dusts).
<b>Safety Phrases</b>	S 22 Do not breathe dusts, S 26 In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice, S 27 Take off immediately all contaminated clothing, S 28 After contact with the skin wash immediately with plenty of soap-suds. S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S 38 In case of insufficient ventilation, wear suitable respiratory equipment.

### 3. Composition/Information on Ingredients

Chemical Identity	Proportion	CAS No
<b>Powder:</b> Portland Cement	> 60 %	65997-16-2
Silica, crystalline, quartz	30 - 60 %	14808-60-2
<b>Liquid:</b> Aqueous dispersion of styrene-butadiene copolymers (Non-hazardous)	100 %	9003-55-8

## 4. First Aid Measures

### 4.1 Symptoms of Exposure by Route

#### SWALLOWED

Minor amounts ingested incidental to normal handling will have little or no effect. Larger amounts deliberately ingested will cause nausea, vomiting and stomach discomfort. Powder may cause superficial burns on damp skin.

#### EYE

May cause moderate to severe eye irritation and, to avoid more serious injury, must be promptly removed by flushing. Powder entering the eye may inflict burns to the surface of the eye and it is essential that flushing takes place immediately.

#### SKIN

May cause minor irritation. Powder may cause reddening and superficial burns on damp skin. Should be promptly removed by washing with soap and water. Prolonged or repeated skin exposures may lead to sensitisation

#### INHALED

Vapour may cause moderate irritation to upper respiratory tract. Inhalation of powder dusts over a number of years may cause serious lung injury including cancer.

### 4.2 First Aid Instructions

#### SWALLOWED

Do not induce vomiting. Rinse mouth clear with water and give two 300 ml glasses of water to drink. If patient involuntarily vomits encourage to lean forward to avoid aspirating. If symptoms persist seek prompt medical help.

#### EYE

Immediately: Hold eye open and flush with clean water for at least 15 minutes. While flushing, gently pull upper and lower eyelids away from eyes and ensure carefully flushed. If symptoms persist seek prompt medical attention.

#### SKIN

Remove contaminated clothing and footwear (while under safety shower if appropriate). Flush affected area with water for 3-5 minutes followed by washing gently with soap and water for a further 5 minutes. Rinse well and pat dry. If symptoms persist seek prompt medical attention.

#### INHALED

Remove patient (while wearing SCBA if concentrations are high) to fresh air. Allow to rest. Rinse mouth and nose with water. Provide artificial respiration if breathing stops. Seek urgent medical attention unless recovery is virtually immediate.

#### FIRST AID FACILITIES

Provide normal industrial first aid facilities including eye-wash stations and safety showers as appropriate.

#### Notes to Physician (for symptoms of over-exposure to this product see above)

#### Possible symptoms of Chronic Health Effects

Prolonged or repeated skin exposure may cause sensitisation or drying and cracking of the skin. Prolonged exposure to high dust concentrations may lead to pneumoconiosis, cancer and or silicosis. Smokers are at greater risk of developing these problems.

#### Possible aggravated pre-existing conditions

Persons suffering asthma or bronchitis and similar disorders should take particular care when working with these materials.

#### Suggested treatment for acute symptoms, known antidotes

Provide supportive care and treatment based on the patient's reaction to the exposure. For further information contact the :

**POISONS INFORMATION CENTRE 13 11 26 in all States**

## 5. Fire Fighting Measures

### 5.1 Flammability and Explosion Hazards

Non-flammable

### 5.2 Hazardous Combustion Products

CO<sub>x</sub> and NO<sub>x</sub>

### 5.3 Suitable Extinguishing Media

Select to suit surrounding fires or use water as fine spray or fog.

**Hazchem Code:** n.a.

### 5.4 Precautions for Fire Fighters and Special Equipment

Wear SCBA and full turn out clothing. Avoid bodily contact with substance or run-off. Contain run-off waters for later collection and controlled disposal.

## 6. Accidental Release Measures

### 6.1 Emergency Procedures – Spills and Leaks (See Section 13 for disposal considerations)

Prevent product entering drains or waterways. Send unnecessary personnel out of area. Wear full protective clothing including rubber boots and respirator. Powder: Avoid creating excess dust clouds during clean up. Sweep or shovel up and collect into metal or plastic drums or pails. Fit lids, label and place containers in a safe area to await disposal. Liquid or mixed product: as above. Spread sand, soil or inert absorbent over mixture. When saturated collect into pails or drums as above.

## 7. Handling and Storage

### 7.1 Handling Advice

Wear suitable protective clothing. Avoid unnecessary bodily contact with product.

### 7.2 Storage Advice

Store in a cool, dry and well-ventilated area. Keep containers closed when not in use.

## 8. Exposure Controls/ Personal Protection

### 8.1 Exposure Standards

Exposure standards have been set by the NOHSC for some ingredients :

<i>Substance</i>	<i>TWA</i>	<i>STEL</i>
Crystalline silica quartz	0.1 mg/m <sup>3</sup>	No interim value set
Cement as nuisance dusts	10 mg/m <sup>3</sup>	not set

### 8.2 Engineering Control Methods

If used out doors natural ventilation is normally adequate. If used in enclosed spaces with poor ventilation provide mechanical ventilation to comfort levels.

### 8.3 Personal Protective Equipment

#### Respiratory Protection

Use good quality dust mask when mixing. If dust concentrations are high use respirator fitted with a particulate filter to AS 1715 & 1716. In confined spaces use SCBA. Once mixed the product does not pose a serious inhalation problem.

#### Eye Protection

Not normally required. If dust clouds, mists or splashes are likely during mixing or application wear safety goggles or full face shield to AS 1337.

#### Gloves

When mixing and applying wear rubber, PVA or neoprene gloves to AS 2161.

#### Clothing

Wear cotton or Tyvec coveralls fastened at the neck and wrist. Supplement with a rubber or PVA apron if required.

## 9. Physical and Chemical Properties

<b>Appearance:</b>	Grey paste (when mixed)	<b>Odour:</b>	mild, cement-like
<b>Freezing/ Melting Point:</b>	n.d.	<b>Boiling Point:</b>	n.d.
<b>Density:</b>	0.95 kg/L when mixed	<b>Vapour Pressure:</b>	n.d.
<b>Solubility in water :</b>	insoluble	<b>Volatiles: Percent</b>	n.d.
<b>Flash Point:</b>	n.a.	<b>Flammability Limits:</b>	n.a.
<b>Auto Ignition Point:</b>	n.a.		
<b>Other Properties</b>	None relevant.		

## 10. Stability and Reactivity

Under all normal circumstances of use and handling the product is completely stable.

## 11. Toxicological Information

No relevant data.

## 12. Ecological Consideration

May have an adverse effect on aquatic organisms if large amount released to water. Slowly biodegrades.

## 13. Disposal Considerations

Disposal must be in accordance with local regulations for hazardous chemical wastes.

## 14. Transport Information

Requirements under the ADG Code, the IMDG Code or the IATA DG Regulations do not apply to this product.

## 15. Regulatory Information

The labelling requirements under the *Code of Practice for the labelling of Workplace Substances (NOHSC:2012[1994])* are applicable to this product, and the word HAZARDOUS must be prominently displayed in red on a white background with letters twice the height of the general text on the powder component. The warnings shown as Risk and Safety phrases on page 1 should appear on the package. The *ADG Code* or the *SUSDP* do not apply to this product.

## 16. Other Information

**Date of Issue:** 16/02/2006 New MSDS (Version 1.0) to comply with National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition NOHSC: 2011 (2003)

**Data Sources used:** in the preparation of this MSDS include: "*Chempendium*" and "*MSDS plus Cheminfo*" published in CD format by CCOHS Canada 2003 - 4."TOMES" a CD database published by Micromedex, USA, "*Hazardous Properties of Industrial Materials*" Van Nostrand Reinhold NY, USA . "*List of Designated Hazardous Substances*" NOHSC 10005:1999, "*National Exposure Standards*" NOHSC 1003:1995 . **Abbreviations used:** n.d = not determined, n.a = not applicable, n.all =not allocated, SUSDP = Standard for the Uniform Scheduling of Drugs and Poisons, ADG = Australian Dangerous Goods Code, IATA = International Air Transport Association, (Dangerous Goods Regulations), IMDG = International Maritime Dangerous Goods (Code)

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