

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** PROMASEAL MORTAR

**Synonyms** FMF - MANUFACTURER'S CODE, FYRE MORTAR, PROMAT PROMASEAL MORTAR.

**Uses** MORTAR.

**Supplier Name** PROMAT AUSTRALIA PTY LTD

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## 2. HAZARDS IDENTIFICATION

**CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA  
NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE**

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	Conc.	CAS No.
SILICA, CRYSTALLINE - QUARTZ	Si-O2	20 - 30%	14808-60-7
CHROMIUM (VI) COMPOUND		<1%	Not Available
FLY ASH		10 - 30%	68131-74-8
CELLULOSE THICKENER		Not Available	9004-58-4
GYPSUM	O4-S.Ca.2H2-O	Not Available	13397-24-5
PORTLAND CEMENT		<30%	65997-15-1
WETTING AGENT		Not Available	Not Available

## 4. FIRST AID MEASURES

**Eye** Hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre, or for at least 15 minutes.

**Inhalation** If exposure occurs leave exposure area immediately. If irritation persists, seek medical attention.

**Skin** Remove contaminated clothing and gently flush affected areas with water. Seek medical attention if irritation develops. Launder clothing before reuse.

**Ingestion** For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor. If swallowed, do not induce vomiting.

**Advice To Doctor** Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

**Flammability** Non flammable. No fire or explosion hazard exists.

**Fire and Explosion** Non flammable. No fire or explosion hazard exists.

**Extinguishing** Non flammable.

**Hazchem Code** None Allocated

**Colour  
Rating  
AMBER**

## 6. ACCIDENTAL RELEASE MEASURES

**Spillage** If spilt (bulk), contact emergency services if appropriate. Wear dust-proof goggles, PVC/rubber gloves, a Class P1 (Particulate) respirator (where an inhalation risk exists), coveralls and rubber boots. Clear area of all unprotected personnel. Prevent spill entering drains or waterways. Collect and place in sealable containers for disposal or reuse. Avoid generating dust.

## 7. HANDLING AND STORAGE

**Handling** Use safe work practices to avoid eye or skin contact and inhalation. Observe good personal hygiene. Prohibit eating, drinking and smoking in contaminated areas. Wash hands before eating. Remove contaminated clothing and protective equipment before entering eating areas.

**Storage** Store in cool, dry, well ventilated area, removed from moisture, oxidising agents (eg. hydrogen fluoride, phosphorus oxide), acids, ethanol, interhalogens (eg. chlorine trifluoride) and foodstuffs. Ensure packages are adequately labelled, protected from physical damage and sealed when not in use.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Ventilation** Do not inhale dust/ powder. Use with adequate natural ventilation. Where a dust inhalation hazard exists, mechanical extraction ventilation is recommended. Maintain dust levels below the recommended exposure standard.

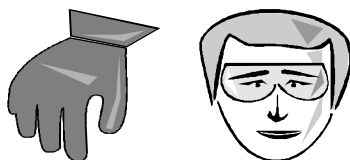
**Exposure Standards** SILICA, CRYSTALLINE - QUARTZ (14808-60-7)  
TWA : 0.2 mg/m3 (Silica Quartz)  
WES : 0.2 mg/m3

CHROMIUM (VI) COMPOUND (Not Available)  
TWA : 0.05 mg/m3 (Chromium VI compounds)

GYPSUM (13397-24-5)  
TWA : 10 mg/m3 Inpirable dust

PORTLAND CEMENT (65997-15-1)  
TWA : 10 mg/m3 Portland Cement  
WES : 10 mg/m3

**PPE** Wear dust-proof goggles and PVC or rubber gloves. When using large quantities or where heavy contamination is likely, wear coveralls. Where an inhalation risk exists, wear a Class P1 (Particulate) Respirator. At high dust levels, wear an Air-line respirator or a Full-face Class P3 (Particulate) respirator.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** LIGHT GREY POWDER  
**Odour:** SLIGHT ODOUR  
**pH:** ALKALINE  
**Vapour Pressure:** NOT AVAILABLE  
**Vapour Density:** NOT AVAILABLE  
**Boiling Point:** NOT AVAILABLE  
**Melting Point:** NOT AVAILABLE  
**Evaporation Rate:** NOT AVAILABLE  
**Solubility (water):** INSOLUBLE  
**Specific Gravity:** NOT AVAILABLE

**Colour  
Rating  
AMBER**

## 9. PHYSICAL AND CHEMICAL PROPERTIES cont.

**% Volatiles:** NOT AVAILABLE  
**Flammability:** NOT AVAILABLE  
**Flash Point:** NOT AVAILABLE  
**Upper Explosion Limit:** NOT AVAILABLE  
**Lower Explosion Limit:** NOT AVAILABLE  
**Autoignition Temperature:** NOT AVAILABLE  
**Density:** 750 kg/m<sup>3</sup> (Approximately)

## 10. STABILITY AND REACTIVITY

**Reactivity** Incompatible with oxidising agents (eg hypochlorites), ethanol, acids (eg hydrofluoric acid) and interhalogens (eg chlorine trifluoride). Water contact may increase product temperature 2-3 C.

**Decomposition Products** May evolve toxic gases if heated to decomposition.

## 11. TOXICOLOGICAL INFORMATION

**Health Hazard Summary** Slightly corrosive. Avoid eye or skin contact or dust inhalation. This product has the potential to cause acute and chronic health effects with over exposure. In the wet state, this product does not present an inhalation hazard. Silica quartz can cause silicosis (lung disease) with chronic over exposure. Both crystalline silica and hexavalent chromium compounds are classified as carcinogenic to humans (IARC Group 1).

**Eye** Corrosive. Severe irritant upon contact with powder/ dust. Over exposure may result in pain, redness, corneal burns and ulceration with possible permanent damage.

**Inhalation** Slightly corrosive. Over exposure may result in severe mucous membrane irritation & bronchitis. Hexavalent chromium is reported to cause respiratory sensitisation, however due to the trace amount present, a hazard is not anticipated under normal conditions of use.

**Skin** Slightly corrosive. Prolonged and repeated contact with powder or wetted form may result in skin rash, dermatitis and sensitisation.

**Ingestion** Slightly corrosive. Ingestion may result in burns to the mouth and throat, with vomiting and abdominal pain. Due to product form, ingestion is not considered a likely exposure route.

## 12. ECOLOGICAL INFORMATION

**Environment** This product is not anticipated to cause adverse effects to animal or plant life if released to the environment in small quantities. Not expected to bioaccumulate.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal** Reuse or recycle where possible. Alternatively, ensure product is covered with moist soil to prevent dust generation and dispose of to an approved landfill site. Contact the manufacturer for additional information.

**Legislation** Dispose of in accordance with relevant local legislation.

## 14. TRANSPORT INFORMATION

**Transport** Not classified as a Dangerous Good according to the Australian Code for the transport of Dangerous Goods by Road and Rail.

**UN Number** None Allocated

**DG Class** None Allocated

**Colour Rating**  
**AMBER**

## 14. TRANSPORT INFORMATION cont.

<b>Subsidiary Risk(s)</b>	None Allocated
<b>Packing Group</b>	None Allocated
<b>Hazchem Code</b>	None Allocated

## 15. REGULATORY INFORMATION

<b>Poison Schedule</b>	A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).
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## 16. OTHER INFORMATION

<b>Additional Information</b>	The silica filler in this product is described by the manufacturer as a silica/alumina filler. The manufacturer reports that the ingredients in this product are listed on the Australia Inventory of Chemical Substances (AICS).
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**CEMENT CONTACT DERMATITIS:** Individuals using wet cement, mortar, grout or concrete could be at risk of developing cement dermatitis. Symptoms of exposure include itchy, tender, swollen, hot, cracked or blistering skin with the potential for sensitisation. The dermatitis is due to the presence of soluble (hexavalent) chromium.

**RESPIRATORS:** In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

**COLOUR RATING SYSTEM:** Chem Alert reports are assigned a colour rating of Green, Amber or Red for the purpose of providing users with a quick and easy means of determining the hazardous nature of a product. Safe handling recommendations are provided in all Chem Alert reports so as to clearly identify how users can control the hazards and thereby reduce the risk (or likelihood) of adverse effects. As a general guideline a Green colour rating indicates a low hazard, an Amber colour rating indicates a moderate hazard and a Red colour rating indicates a high hazard.

### PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this Chem Alert report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made. Information provided by Risk Management Technologies is summarised for ease of use. Additional technical information is available by calling +61 8 9322 1711.

### HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Chem Alert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

### ABBREVIATIONS:

mg/m<sup>3</sup> - Milligrams per cubic metre

ppm - Parts Per Million

TWA/ES - Time Weighted Average or Exposure Standard.

pH - relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline.

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.

M - moles per litre, a unit of concentration.

IARC - International Agency for Research on Cancer.

## MSDS

**Colour  
Rating  
AMBER**

## 16. OTHER INFORMATION cont.

**Reviewed**

1st January 2004

**Date Printed**

2nd September 2004

**Report Status**

Chem Alert reports are compiled as an independent source of information by RMT's scientific department, based on the latest chemical and toxicological research and, where appropriate, in compliance with relevant standards, guidance notes and legislation. Where available the manufacturer's original MSDS is also provided to Chem Alert subscribers as a scanned image for their convenience. In many instances Chem Alert reports are compiled on behalf of manufacturers in which case they serve as the "Manufacturer's MSDS" and are clearly identified as such on the relevant reports.

**Prepared By**

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**Colour  
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AMBER**