

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name **CASTING PLASTER (BORAL)**
Synonyms BORAL CASTING PLASTER, P 039 - MANUFACTURER'S CODE.
Uses PLASTER, CASTING AGENT.
Supplier Name BORAL AUSTRALIAN GYPSUM LIMITED
Address 676 Lorimer Street, Port Melbourne Victoria, 3207, AUSTRALIA
Telephone (03) 9214 2138
Fax (03) 9646 7339
Emergency 1800 033 111

2. HAZARDS IDENTIFICATION

NOT 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	<0.1%	14808-60-7
CALCIUM SULFATE HEMIHYDRATE	Ca-O4-S.1/2-H2-O	>60%	10034-76-1
CALCIUM CARBONATE	Ca-C-O3	<10%	471-34-1

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.

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 Drinking glycerin, gelatin solutions, or large volumes of water may delay the hardening of this product in the stomach. Surgical relief of obstruction, particularly at the phlorus, may be required. The manufacturer recommends treating the patient symptomatically.

5. FIRE FIGHTING MEASURES

Flammability Non flammable. May evolve toxic gases (sulfur oxides) when heated to decomposition.

Fire and

**Colour
Rating
GREEN**

5. FIRE FIGHTING MEASURES cont.

Explosion

Non flammable. Evacuate area and contact emergency services. Toxic gases (sulfur oxides) may be evolved when heated in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

Extinguishing Non flammable.

Hazchem Code None Allocated

6. ACCIDENTAL RELEASE MEASURES

Spillage If spilt (bulk), wear dust-proof goggles, PVC/rubber gloves, a Class P1 (Particulate) respirator (where an inhalation risk exists) and coveralls or protective clothing. Moisten with water to prevent a dust hazard and place in sealable containers for disposal.

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 aluminium, diazomethane, phosphorus and foodstuffs. Ensure containers/ packages are adequately labelled, protected from physical damage and sealed when not in use. **WARNING - DO NOT** attempt to make an enclosed cast of any body parts such as hands or fingers. This product gives off heat when mixed with water for setting, which may result in serious skin burns if used for casting body parts. If this product is repackaged by distributors or others, this warning must be repeated on any new packaging.

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.

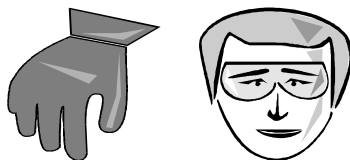
Exposure Standards SILICA, CRYSTALLINE - QUARTZ (14808-60-7)
 ES-TWA : 0.1 mg/m³ (Silica Quartz, respirable, NOHSC)
 ES-TWA# : 0.1 mg/m³ (QLD); 0.15 mg/m³ (NSW)
 WES : 0.2 mg/m³

CALCIUM SULFATE HEMIHYDRATE (10034-76-1)
 ES-TWA : 10 mg/m³ (Nuisance dust)

CALCIUM CARBONATE (471-34-1)
 ES-TWA : 10 mg/m³ (Nuisance dust)

PPE Wear PVC or rubber gloves and dust-proof goggles. When using large quantities or where heavy contamination is likely, wear coveralls. Where an inhalation risk exists, wear a Class P1 (Particulate) Respirator.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION cont.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: WHITE POWDER
Odour: SLIGHT ODOUR
pH: NOT AVAILABLE
Vapour Pressure: NOT AVAILABLE
Vapour Density: NOT AVAILABLE
Boiling Point: NOT AVAILABLE
Melting Point: NOT AVAILABLE
Evaporation Rate: NOT AVAILABLE
Solubility (water): 0.2 %
Specific Gravity: 2.6 - 2.7
% Volatiles: NOT AVAILABLE
Flammability: NON FLAMMABLE
Flash Point: NOT RELEVANT
Upper Explosion Limit: NOT RELEVANT
Lower Explosion Limit: NOT RELEVANT
Autoignition Temperature: NOT AVAILABLE
Density: 0.80 - 0.82 g/cm³ (Bulk)

10. STABILITY AND REACTIVITY

Reactivity Incompatible (violently) with aluminium (when heated), diazomethane, phosphorus (at high temperatures) and strong oxidising agents.

Decomposition Products May evolve toxic gases (sulfur oxides) when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary Low toxicity - irritant. Use safe work practices to avoid dust generation or inhalation. Crystalline silica is classified as carcinogenic to humans (IARC Group 1). Chronic exposure to crystalline silica may cause lung fibrosis (silicosis), however due to the low levels of crystalline silica in this product, chronic health effects are not anticipated with normal use.

Eye Irritant. Exposure may result in lacrimation, irritation, pain and redness.

Inhalation Irritant. Over exposure may result in mucous membrane irritation of the nose and throat with coughing.

Skin Irritant. Prolonged contact may result in irritation, itching and possible skin rash.

Ingestion Low toxicity. Ingestion may result in headache, nausea, vomiting, gastrointestinal irritation and diarrhoea.

Toxicity Data CALCIUM CARBONATE (471-34-1)
 LD50 (Ingestion) : 6450 mg/kg (rat)

**Colour
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 GREEN**

11. TOXICOLOGICAL INFORMATION cont.

12. ECOLOGICAL INFORMATION

Environment The main component/s of this product occur naturally in the earth's crust. It is not anticipated to cause any adverse effects to plants or animals.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Reuse where possible. No special precautions are required for this product.

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

Subsidiary Risk(s) None Allocated

Packing Group None Allocated

Hazchem Code None Allocated

15. REGULATORY INFORMATION

Poison Schedule 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).

16. OTHER INFORMATION

Additional Information The hardening time of this product is 30-35 minutes.

EXPOSURE STANDARDS - TIME WEIGHTED AVERAGES: Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

ABBREVIATIONS:

mg/m³ - Milligrams per cubic metre

ppm - Parts Per Million

TWA/ES - Time Weighted Average or Exposure Standard.

Colour Rating GREEN

16. OTHER INFORMATION cont.

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.

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.

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.

Report Reviewed 29th November 2009

Date Printed 6th April 2010

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.

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**Colour
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GREEN**