

# SAFETY DATA SHEET

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## **1 Identification of the material and supplier**

### **1.1 Product identifier**

Product name **PORTLAND & BLENDED CEMENTS**  
Synonym/s Eureka Cement • Steel Cement • Type GP, GB, HE, LH, SR, SL, ASTM 150 Cements

### **1.2 Uses and uses advised against**

Use/s Cement • Grout • Masonry Additive • Mortar

### **1.3 Details of the supplier of the product**

Supplier name **BRICKWORKS BUILDING PRODUCTS PTY LTD**  
Address 738 - 780 Wallgrove Road, Horsley Park NSW 2175 AUSTRALIA  
Telephone +61 (2) 9830 7800  
Fax +61 (2) 9830 7797  
Website [brickworksbuildingproducts.com.au](http://brickworksbuildingproducts.com.au)

### **1.4 Emergency telephone number/s**

Emergency 13 11 26

## **2 Hazards identification**

### **2.1 Classification of the substance or mixture**

**CLASSIFIED AS HAZARDOUS ACCORDING TO AUSTRALIAN WHS REGULATIONS**

**GHS classification/s** Skin Corrosion/Irritation: Category 2  
Skin Sensitisation: Category 1  
Serious Eye Damage / Eye Irritation: Category 2A  
Specific Target Organ Systemic Toxicity (Single Exposure): Category 3  
Specific Target Organ Systemic Toxicity (Repeated Exposure): Category 2

## 2.2 Label elements

### Signal word

WARNING

### Pictogram/s



### Hazard statement/s

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
AUH066	Repeated exposure may cause skin dryness or cracking.

### Prevention statement/s

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

### Response statement/s

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314	Get medical advice/attention if you feel unwell.
P321	Specific treatment is advised - see first aid instructions.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash before re-use.

### Storage statement/s

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

### Disposal statement/s

P501 Dispose of contents/container in accordance with relevant regulations.

### 2.3 Other hazards

No information provided.

## 3 Composition / information on ingredients

### 3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
Calcium Hydroxide	1305-62-0	215-137-3	<2%
Limestone (Calcium Carbonate)	1317-65-3	215-279-6	<20%
Quartz (Crystalline Silica)	14808-60-7	238-878-4	<1%
Chromium Trioxide	1333-82-0	215-607-8	<0.001%
Portland Cement Clinker	65997-15-1	266-043-4	<97%
Blast Furnace Slag	65999-99-2	–	<80%
Fly Ash	68131-74-8	268-627-4	<80%
Calcium Sulphate Dihydrate	10101-41-4	600-148-1	3 to 8%

## 4 First aid measures

### 4.1 Description of first aid measures

<b>Eye</b>	If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.
<b>Inhalation</b>	If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.
<b>Skin</b>	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.
<b>Ingestion</b>	For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting. Rinse mouth out with water and give plenty of water to drink.
<b>First aid facilities</b>	Eye wash facilities and safety shower are recommended.

#### **4.2 Most important symptoms and effects, both acute and delayed**

Irritating to the eyes, skin and respiratory system. Chronic over exposure to silica quartz dust may result in silicosis (lung disease). Principal symptoms of silicosis are coughing and breathlessness. Some individuals may exhibit an allergic response upon exposure to this product, possibly due to the trace amounts of chromium present. Crystalline silica and hexavalent chromium compounds are classified as carcinogenic to humans (IARC Group 1).

#### **4.3 Immediate medical attention and special treatment needed**

Treat symptomatically.

### ***5 Fire fighting measures***

#### **5.1 Extinguishing media**

Use an extinguishing agent suitable for the surrounding fire.

#### **5.2 Special hazards arising from the substance or mixture**

Non flammable. May evolve toxic gases if strongly heated.

#### **5.3 Advice for firefighters**

No fire or explosion hazard exists.

#### **5.4 Hazchem code**

None allocated.

### ***6 Accidental release measures***

#### **6.1 Personal precautions, protective equipment and emergency procedures**

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Contact emergency services where appropriate.

#### **6.2 Environmental precautions**

Prevent product from entering drains and waterways.

#### **6.3 Methods of cleaning up**

Contain spillage, then collect and place in suitable containers for reuse or disposal. Avoid generating dust.

#### **6.4 Reference to other sections**

See Sections 8 and 13 for exposure controls and disposal.

## 7 Handling and storage

### 7.1 Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, removed from moisture, incompatible substances and foodstuffs. Ensure packages are adequately labelled, protected from physical damage and sealed when not in use.

### 7.3 Specific end use/s

No information provided.

## 8 Exposure controls / personal protection

### 8.1 Control parameters

#### Exposure standards

Ingredient	Reference	TWA		STEL	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Calcium carbonate (Limestone, Marble, Whiting)	SWA (AUS)	–	10	–	–
Calcium hydroxide	SWA (AUS)	–	5	–	–
Chromium (VI) Compounds (as Cr), water insoluble	SWA (AUS)	–	0.05	–	–
Portland Cement	SWA (AUS)	–	10	–	–
Quartz (respirable dust)	SWA (AUS)	–	0.1	–	–

#### Biological limits

Ingredient	Determinant	Sampling Time	BEI
Chromium Trioxide	Total chromium in urine	End of shift at end of workweek	25 µg/L
	Total chromium in urine	Increase during shift	10 µg/L

Reference: ACGIH Biological Exposure Indices

## 8.2 Exposure controls

**Engineering controls** Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain dust levels below the recommended exposure standard.

### PPE

Eye / Face	Wear dust-proof goggles.
Hands	Wear PVC or rubber gloves.
Body	When using large quantities or where heavy contamination is likely, wear coveralls.
Respiratory	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

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	Light grey fine powder
<b>Odour</b>	Odourless
<b>Flammability</b>	Non flammable
<b>Flash point</b>	Not relevant
<b>Boiling point</b>	Not available
<b>Melting point</b>	> 1200°C
<b>Evaporation rate</b>	Not available
<b>pH</b>	12 (approximately)
<b>Vapour density</b>	Not available
<b>Specific gravity</b>	2.8 - 3.2
<b>Solubility (water)</b>	Reacts
<b>Vapour pressure</b>	Not available
<b>Upper explosion limit</b>	Not relevant
<b>Lower explosion limit</b>	Not relevant
<b>Partition coefficient</b>	Not available
<b>Autoignition temperature</b>	Not available
<b>Decomposition temperature</b>	Not available
<b>Viscosity</b>	Not available
<b>Explosive properties</b>	Not available
<b>Oxidising properties</b>	Not available

**Odour threshold** Not available

## ***10 Stability and reactivity***

### **10.1 Reactivity**

Carefully review all information provided in sections 10.2 to 10.6.

### **10.2 Chemical stability**

Stable under recommended conditions of storage.

### **10.3 Possibility of hazardous reactions**

Hazardous polymerization is not expected to occur.

### **10.4 Conditions to avoid**

Avoid heat, sparks, open flames and other ignition sources.

### **10.5 Incompatible materials**

Incompatible with oxidising agents (e.g. hypochlorites), ethanol, acids (e.g. hydrofluoric acid) and interhalogens (e.g. chlorine trifluoride). Water contact may increase product temperature 2°C to 3°C.

### **10.6 Hazardous decomposition products**

May evolve toxic gases if heated to decomposition.

## ***11 Toxicological information***

### **11.1 Information on toxicological effects**

#### **Acute toxicity**

#### **Information available for the product:**

Based on available data, the classification criteria are not met.

**Information available for the ingredient/s:**

<b>Ingredient</b>	<b>Oral Toxicity (LD50)</b>	<b>Dermal Toxicity (LD50)</b>	<b>Inhalation Toxicity (LC50)</b>
Calcium Hydroxide	7300 mg/kg (mouse)	–	–
Limestone (Calcium Carbonate)	> 5000 mg/kg (rat)	–	–
Calcium Sulphate Dihydrate	3000 mg/kg (rat)	–	–
Chromium Trioxide	80 mg/kg (rat)	–	–

<b>Skin</b>	Irritating to the skin. Contact with powder or wetted form may result in irritation, rash and dermatitis.
<b>Eye</b>	Irritating to the eyes. Contact may result in irritation, lacrimation, pain, redness, corneal burns and possible permanent damage.
<b>Sensitisation</b>	May cause an allergic skin reaction. Not classified as causing respiratory sensitisation. However, some individuals may exhibit an allergic response upon exposure to cement, possibly due to trace amounts of chromium.
<b>Mutagenicity</b>	Insufficient data available to classify as a mutagen.
<b>Carcinogenicity</b>	This product contains crystalline silica and trace amounts of hexavalent chromium compounds which are classified as carcinogenic to humans (IARC Group 1). However, there is sufficient information to conclude that the relative risk of lung cancer from exposure to crystalline silica is increased in persons with silicosis. Therefore preventing the onset of silicosis will also reduce the cancer risk. Insufficient data available to classify as a reproductive toxin.
<b>Reproductive</b>	Irritating to the respiratory system. Over exposure may result in irritation of the nose and throat, with coughing. High level exposure may result in breathing difficulties.
<b>STOT – single exposure</b>	Repeated exposure to respirable silica may result in pulmonary fibrosis (silicosis). Silicosis is a fibronodular lung disease caused by deposition in the lungs of fine respirable particles of crystalline silica. Principal symptoms of silicosis are coughing and breathlessness. In the wet state, the likelihood of an inhalation hazard is reduced.
<b>STOT – repeated exposure</b>	This product is a solid and aspiration hazards are not expected to occur.
<b>Aspiration</b>	Irritating to the skin. Contact with powder or wetted form may result in irritation, rash and dermatitis.



## ***12 Ecological information***

### **12.1 Toxicity**

No information provided.

### **12.2 Persistence and degradability**

Product is persistent and would have a low degradability.

### **12.3 Bioaccumulative potential**

No information provided.

### **12.4 Mobility in soil**

A low mobility would be expected in a landfill situation.

### **12.5 Other adverse effects**

Product forms an alkaline slurry when mixed with water.

## ***13 Disposal considerations***

### **13.1 Waste treatment methods**

**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/supplier for additional information (if required).

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

## ***14 Transport information***

**NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA**

	<b>Land Transport (ADG)</b>	<b>Sea Transport (IMDG / IMO)</b>	<b>Air Transport (IATA / ICAO)</b>
<b>14.1 UN Number</b>	None Allocated	None Allocated	None Allocated
<b>14.2 Proper Shipping Name</b>	None Allocated	None Allocated	None Allocated
<b>14.3 Transport Hazard Class</b>	None Allocated	None Allocated	None Allocated
<b>14.4 Packing Group</b>	None Allocated	None Allocated	None Allocated

### **14.5 Environmental hazards**

No information provided

#### 14.6 Special precautions for user

**Hazchem code**                      None Allocated

### 15 Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**Poison schedule**                      A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

**Classifications**                      Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.  
The classifications and phrases listed below are based on the Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008(2004)].

#### **Hazard codes**

Xi    Irritant

Xn    Harmful

#### **Risk phrases**

R36/37/38                                  Irritating to eyes, respiratory system and skin.

R43    May cause sensitisation by skin contact.

R48/20    Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R66    Repeated exposure may cause skin dryness or cracking.

#### **Safety phrases**

S22    Do not breathe dust.

S24/25    Avoid contact with skin and eyes.

S29    Do not empty into drains.

S36/37/39                                      Wear suitable protective clothing, gloves and eye/face protection.

S38    In case of insufficient ventilation, wear suitable respiratory equipment.

**Inventory listing/s**                      **AUSTRALIA: AICS (Australian Inventory of Chemical Substances)**  
All components are listed on AICS, or are exempt.

## 16 Other information

**Additional information 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.

**Personal Protective Equipment Guidelines:** The recommendation for protective equipment contained within this 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.

**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 report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

### Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
CAS #	Chemical Abstract Service number - used to uniquely identify chemical compounds
CNS	Central Nervous System
EC No.	European Community Number
EMS	Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)
GHS	Globally Harmonized System
GTEPG	Group Text Emergency Procedure Guide
IARC	International Agency for Research on Cancer
LC50	Lethal Concentration, 50% / Median Lethal Concentration
LD50	Lethal Dose, 50% / Median Lethal Dose
mg/m <sup>3</sup>	Milligrams per Cubic Metre

OEL	Occupational Exposure Limit
pH	Relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
ppm	Parts Per Million
STEL	Short-Term Exposure Limit
STOT-RE	Specific target organ toxicity (repeated exposure)
STOT-SE	Specific target organ toxicity (single exposure)
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
SWA	Safe Work Australia
TLV	Threshold Limit Value
TWA	Time Weighted Average

**Report status** This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

**Prepared by** Risk Management Technologies  
5 Ventnor Ave, West Perth  
Western Australia 6005  
Phone: +61 8 9322 1711  
Fax: +61 8 9322 1794  
Email: [info@rmt.com.au](mailto:info@rmt.com.au)  
Web: [www.rmt.com.au](http://www.rmt.com.au)

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