Safety Data Sheet



1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name

Synonyms

PACKAGED CONCRETE (DRY-MIX)

50MPA MIX • BLUE CIRCLE CONCRETE • BLUE CIRCLE CONCRETE MIX • BLUE CIRCLE POST HOLE CONCRETE • BLUE CIRCLE QUICK SET CONCRETE • BLUE CIRCLE RAPID SET NO MIX CONCRETE • CONCRETE • CONCRETE MIX • HS CONCRETE • NO MIX CONCRETE • POST HOLE CONCRETE • PREMIX CONCRETE • QUICK SET CONCRETE • RAPID SET NO MIX CONCRETE •

1.2 Uses and uses advised against

Uses CONCRETE

1.3 Details of the supplier of the product

Supplier name BORAL AUSTRALIA

AddressTriniti T2, Level 3, 39 Delhi Road, North Ryde, NSW, 2113, AUSTRALIATelephone(02) 9220 6300Websitehttp://www.boral.com.au

1.4 Emergency telephone numbers

Emergency

13 11 26 (Poisons Information Centre)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

Physical Hazards

Not classified as a Physical Hazard

Health Hazards

Skin Corrosion/Irritation: Category 2 Serious Eye Damage / Eye Irritation: Category 1 Specific Target Organ Toxicity (Single Exposure): Category 3 (Respiratory Irritation)

Environmental Hazards

Not classified as an Environmental Hazard

2.2 GHS Label elements

Signal word

Pictograms



Hazard statements

H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.



Prevention statements	
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
Response statements	
P302 + P352	IF ON SKIN: Wash with plenty of water.
P304 + P340	IF INHALED: Remove person to fresh air and keep 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.
P310	Immediately call a POISON CENTRE or doctor/physician.
P321	Specific treatment is advised - see first aid instructions.
P332 + P337 + P313	If skin or eye irritation occurs: Get medical advice/ attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
Storage statements	
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
Disposal statements	
P501	Dispose of contents/container in accordance with relevant regulations.

2.3 Other hazards

This product contains more than 1% Crystalline Silica (Quartz) and is considered a Crystalline Silica Substance as specified in Victoria's Occupational Health and Safety Amendment (Crystalline Silica) Regulations 2021, S.R. No. 137/2021.

Some sensitized individuals may exhibit an allergic skin response upon exposure to Portland Cement due to the presence of trace levels of Hexavalent Chromium. Contaminated work clothing should not be allowed out of the workplace.

Prolonged exposure to Portland Cement in the wet form can cause serious, potentially irreversible skin or eye damage in the form of chemical burns. The same serious injury can occur if wet or moist skin or eyes have prolonged contact exposure to dry Portland Cement.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
QUARTZ (CRYSTALLINE SILICA)	14808-60-7	238-878-4	30 to 60%
PORTLAND CEMENT	65997-15-1	266-043-4	<30%
AGGREGATE	-	-	30 to 60%
ADDITIVE(S)	-	-	<10%
ASHES (RESIDUES)	68131-74-8	268-627-4	<10%
CALCIUM SULPHATE HEMIHYDRATE	26499-65-0	607-950-0	<10%
SLAGS, FERROUS METAL, BLAST FURNACE	65996-69-2	266-002-0	<10%

Ingredient Notes1. Depending on the original source materials, aggregates may contain varying amounts of Crystalline
Silica (Quartz) however this material is unlikely to exceed 0.1% Respirable Crystalline Silica (RCS).2. Hexavalent Chromium (Cr+6) is a trace impurity in Portland Cement.

4. FIRST AID MEASURES

4.1 Description of first aid measures

Еуе	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.
Inhalation	If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.
Skin	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.
Ingestion	For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.

First aid facilities Eye wash facilities and safety shower should be available.

4.2 Most important symptoms and effects, both acute and delayed

Irritating to eyes, skin, and respiratory system. Chronic exposure to respirable crystalline silica may result in lung fibrosis (silicosis), and Chronic Obstructive Pulmonary Disease (COPD). Chronic exposure to non-Quartz mineral dusts may also result in COPD. Principal symptoms of silicosis and COPD are cough and breathlessness.

Respirable Crystalline Silica (RCS) and Hexavalent Chromium (Cr+6) are both classified as carcinogenic to humans (IARC Group 1).

4.3 Immediate medical attention and special treatment needed

Treat as for moderate to strong alkali and 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

Treat as per requirements for surrounding fires. Evacuate area and contact emergency services. 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.

5.4 Hazchem code

None allocated.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

If ambient dust is present, wear Personal Protective Equipment (PPE) as detailed in Section 8 of this SDS. Clear area of all unprotected personnel. Ventilate area where possible.

6.2 Environmental precautions

Prevent product from entering drains and waterways or coming into direct contact with stormwater or groundwater.

6.3 Methods of cleaning up

Contain spillage, then collect and place in suitable containers for reuse or disposal. Do not dry sweep - use wet methods where possible. Clean up residues using Class M or H vacuum.

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

Use safe work practices to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking, and smoking in work areas which may have dusty surfaces.

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 uses

No information provided.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Exposure standards

Ingredient	Reference	TWA		STEL	
ingreatent		ppm	mg/m³	ppm	mg/m³
Calcium sulphate (a)	SWA [AUS]		10		
Portland cement	SWA [AUS]		10		
Quartz (respirable dust)	SWA [AUS]		0.05		

Biological limits

No biological limit values have been entered for this product.

8.2 Exposure controls

Engineering controls All work should be carried out in such a way as to minimise dust generation and reduce potential inhalation to as low as reasonably practicable. Use this product in a well-ventilated area. Where an inhalation risk exists, mechanical extraction ventilation is recommended.

Work areas and equipment should be cleaned regularly. For cleaning, do not use compressed air or dry sweeping. Use wet methods or Class M or H vacuums for cleaning equipment and other surfaces.

Maintain ambient levels of Respirable Dust and Respirable Crystalline Silica levels below the recommended exposure standards. Use Respiratory Protective Equipment (RPE) only where other controls are not effective in control ambient dust levels.

PPE

- **Eye / Face** Wear safety glasses or dust-proof goggles when handling material to avoid contact with eyes. Refer to AS/NZS 1336.
- Hands Where hands are subject to "dry skin" or "skin tears", wear PVC, rubber, or cotton gloves. Refer to AS/NZS 2161.
- **Body** Wear long sleeved shirt and full-length trousers.
- **Respiratory** Personal respiratory protection may be required where dust is airborne. The type of respiratory protection required depends primarily on the concentration of the inhalable and respirable dust in the air, and the frequency and length of exposure time. Wear a well-fitted P2 disposable respirator, or better, when potential exposure to dust exists.

A suitable P2 particulate respirator chosen and used in accordance with AS/NZS 1715 may be sufficient for many situations, but where high levels of dust are encountered, more efficient cartridge-type or powered respirators or supplied-air helmets or suits may be necessary. Use only respirators that bear the Australian Standards mark and are fitted and maintained correctly. Dust control measures providing respiratory protection against Respirable Crystalline Silica dust will also minimise and control potential exposure to Portland Cement and Hexavalent Chromium.



9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	GREY SANDY POWDER WITH AGGREGATE
Odour	ODOURLESS
Flammability	NON FLAMMABLE
Flash point	NOT RELEVANT
Boiling point	NOT AVAILABLE
Melting point	> 1200°C
Evaporation rate	NOT AVAILABLE
рН	11 to 13

9.1 Information on basic physical and chemical properties

3.1 information on basic physical a	na chemical properties
Vapour density	NOT AVAILABLE
Relative density	NOT AVAILABLE
Solubility (water)	< 10 g/L
Vapour pressure	NOT AVAILABLE
Upper explosion limit	NOT RELEVANT
Lower explosion limit	NOT RELEVANT
Partition coefficient	NOT AVAILABLE
Autoignition temperature	NOT AVAILABLE
Decomposition temperature	NOT AVAILABLE
Viscosity	NOT AVAILABLE
Explosive properties	NOT AVAILABLE
Oxidising properties	NOT AVAILABLE
Odour threshold	NOT AVAILABLE
9.2 Other information	
Bulk density	1800 kg/m ³ to 2200 kg/m ³
-	

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

Polymerization will not 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. Also incompatible with aluminium and other reactive metals.

10.6 Hazardous decomposition products

May evolve toxic gases if heated to decomposition (>1200°C).

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity	No known toxicity data is available for this product. Based on available data, the classification criteria are not met.
Skin	Irritating to the skin. Contact with powder or wetted form may result in irritation, rash and dermatitis.
Еуе	Contact with moisture in the eyes may result in irritation, lacrimation, pain, redness, conjunctivitis and possible alkaline burns aided by mechanical irritation and abrasion.
Sensitisation	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.
Mutagenicity	Insufficient data available to classify as a mutagen.
Carcinogenicity	This product may contain trace amounts of 'respirable' crystalline silica and 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.
Reproductive	Insufficient data available to classify as a reproductive toxin.
STOT - single exposur	e 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.
STOT - repeated exposure	Not classified as causing organ damage from repeated exposure. Repeated exposure to crystalline silica may cause lung fibrosis (silicosis), however due to the low levels of respirable crystalline silica in this



product, adverse health effects are not anticipated with normal use.

Aspiration This product is a solid and aspiration hazards are not expected to occur.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

May be harmful to the aquatic environment due to the alkaline nature of the product. This product is non-toxic to aquatic organisms when present as a cured solid.

12.2 Persistence and degradability

Product is persistent and would have a low degradability.

12.3 Bioaccumulative potential

This product is not expected to bioaccumulate.

12.4 Mobility in soil

A low mobility would be expected in a landfill situation.

12.5 Other adverse effects

Avoid contamination of drains and waterways.

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

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
14.1 UN Number	None allocated.	None allocated.	None allocated.
14.2 Proper Shipping Name	None allocated.	None allocated.	None allocated.
14.3 Transport hazard class	None allocated.	None allocated.	None allocated.
14.4 Packing Group	None allocated.	None allocated.	None allocated.

14.5 Environmental hazards

Not a Marine Pollutant.

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 scheduleA 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).ClassificationsSafe Work Australia criteria is based on the Globally Harmonised System (GHS) of Classification and
Labelling of Chemicals (GHS Revision 7).
- Inventory listings AUSTRALIA: AllC (Australian Inventory of Industrial Chemicals) All components are listed on AllC, or are exempt.



16. OTHER INFORMATION

Additional information	PERSONAL PROTECTIVE EQUIPMENT GUIDELINES: The recommendation for protective equipment contained within this report is provided as only. Factors such as form of product, method of application, working environment, quanti product concentration and the availability of engineering controls should be considered bef selection of personal protective equipment is made.	
	It should be r including: form measures; pro prepare a rep	ECTS FROM EXPOSURE: noted that the effects from exposure to this product will depend on several factors n of product; frequency and duration of use; quantity used; effectiveness of control otective equipment used and method of application. Given that it is impractical to port which would encompass all possible scenarios, it is anticipated that users will ks and apply control methods where appropriate.
Abbreviations	CAS # CNS EC No. EMS GHS GTEPG IARC LC50 LD50 mg/m ³ OEL pH PPm STEL STOT-RE STOT-RE STOT-SE SUSMP SWA TLV	American Conference of Governmental Industrial Hygienists Chemical Abstract Service number - used to uniquely identify chemical compounds Central Nervous System EC No - European Community Number Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods) Globally Harmonized System Group Text Emergency Procedure Guide International Agency for Research on Cancer Lethal Concentration, 50% / Median Lethal Concentration Lethal Dose, 50% / Median Lethal Dose Milligrams per Cubic Metre Occupational Exposure Limit relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline). Parts Per Million Short-Term Exposure Limit Specific target organ toxicity (repeated exposure) Specific target organ toxicity (single exposure) Standard for the Uniform Scheduling of Medicines and Poisons Safe Work Australia Threshold Limit Value 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, does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RM accepts no liability for any loss, injury or damage (including consequential loss) which may b suffered or incurred by any person as a consequence of their reliance on the information containee in this SDS.	
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Revision Information

Revision History

Revision	Date	Description
3.2	16/05/2023	Revision Update
3.1	27/06/2022	Revision Update
3.0	15/06/2021	Revision Update
2.0	20/06/2016	Revision Update
1.0	21/01/2015	Initial SDS Creation

Review Team

SME Reviewers	Subject Matter
National Technical Manager - Cement	Quality
H&S Business Partner - Cement	Health & Safety
Environmental Sustainability Manager, Cement	Environment & Community
Mobile Asset Manager - Cement	Transport & Dangerous Goods
National Health & Hygiene Manager	Health & Hygiene
National Technical Manager - Cement	Product Custodian