SAFETY DATA SHEET

Rapid Set Cement

Section 1: Identification of the Material and Suppliers

Product Name	Rapid Set Cement
Product Code	101002000, 101010050, 101010088, 101012000, 101013000
Recommended Use	Very fast-setting hydraulic cement used in concrete repair and cement repair applications requiring the highest durability and fastest strength gain. Rapid Set Cement may be mixed with a wide variety of aggregates to produce customized one-hour strength concrete or mortar mixtures.
Importer	Volumetric Concrete Australia Pty Ltd ABN 12 132 245 204 19-21 Cann Street, Guildford NSW 2161 1300 320 799 www.antoun.com.au
Emergency Contact Number	13 11 26 (Poisons Information Centre)

Section 2: Hazard Identification

Classification of the Hazardous Chemical	Classified as HAZARDOUS according to Safe Work Australia criteria. Not Classified as a dangerous good by the criteria of the ADG code, IMDG or IATA.
GHS Classification	Skin irritation, category 2 Serious eye damage, category 1 Carcinogenicity, category 1A Specific target organ toxicity - single exposure, category 3, respiratory irritation Specific target organ toxicity - repeated exposure, category 2
Signal Word	Danger
Hazard Pictograms	
Hazard Statements	H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation. H350 May cause cancer. H373 May cause damage to lungs through prolonged or repeated exposure by inhalation.
Prevention Statements	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash hands/eyes/mouth/skin/clothing thoroughly after handling.

	P271 Use only outdoors or in a well-ventilated area.
	P280 Wear protective gloves/protective clothing/eye protection/face protection.
	P233 Keep container tightly closed.
	P281 Use personal protective equipment as required.
Response Statements	P321 Specific treatment (see supplemental first aid instructions on this label).
	P362 Take off contaminated clothing and wash before reuse
	P302+P352 IF ON SKIN: Wash with plenty of soap and water.
	P332+P313 If skin irritation occurs: Get medical advice/attention.
	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 CENTER or doctor/physician.
	P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
	P312 Call a POISON CENTER or doctor/physician if you feel unwell.
	P308+P313 If exposed or concerned: Get medical advice/attention.
Storage Statements	P405 Store locked up.
	P403+P233 Store in a well-ventilated place. Keep the container tightly closed.
Disposal Statements	P501 Dispose of contents/container in accordance with local / regional / national / international regulations.

Section 3: Composition/Information on Ingredients

Chemical Entity	CAS Number	Proportion
Aluminum calcium oxide sulphate	12004-14-7	20-40%
Dicalcium silicate	10034-77-2	40-60%
Calcium sulphate	7778-18-9	5-15%
Silica, crystalline quartz	14808-60-7	0-0.1%

Additional Information: The specific chemical identity and/or exact percentage (concentration) of composition has been withheld. Cement is primarily comprised of calcium compounds with oxides of aluminium, iron, sulphur, and silica. Trace amounts of naturally occurring, potentially harmful chemicals might be detected during chemical analysis. Trace constituents may include, but are not limited to, magnesium, potassium, sodium oxides, and hexavalent chromium.

Section 4: First Aid Measures

Description of First Aid Measures

Eye

Rinse/flush exposed eye(s) gently using water for 15-20 minutes. If symptoms develop or persist, seek medical attention. Avoid direct contact and wear chemical protective gloves, if necessary. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do so. Continue rinsing until medical aid is

	available. Immediately call a POISON CONTROL CENTER or seek medical attention.
Inhalation	Loosen clothing as necessary and position individual in a comfortable position. Maintain an unobstructed airway. Get medical advice/attention if you feel unwell. Take precautions to ensure your own safety. Remove source of exposure or move person to fresh air. Get medical advice if you feel unwell or concerned.
Skin	Rinse affected area with soap and water. If symptoms develop or persist, seek medical attention. Take off all contaminated clothing. Gently blot or brush away excess product. Wash with plenty of lukewarm, gently flowing water. Get medical advice if skin irritation occurs or you feel unwell.
Ingestion	Rinse mouth thoroughly. Seek medical attention if irritation, discomfort, or vomiting persists.
Advise to Doctor	Not determined or not applicable.
First Aid Facilities	Not determined or not applicable.
Most Important Symptoms and Effects, Both Acute and Delayed	**Acute symptoms and effects:** Not determined or not applicable. **Delayed symptoms and effects:** Not determined or not applicable.
Immediate Medical Attention and Special Treatment Needed	Not determined or not applicable.

Section 5: Firefighting Measures

Extinguishing Media	**Suitable extinguishing media:** Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition. **Unsuitable extinguishing media:** Not determined or not applicable.
Specific Hazards	Thermal decomposition can lead to release of irritating gases and vapours.
Advice for Firefighters	Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit. Carbon monoxide and carbon dioxide may form upon combustion. Heating causes a rise in pressure, risk of bursting and combustion.
Hazchem Code	-

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures	Ensure adequate ventilation. Ensure air handling systems are operational. Wear protective eyewear, gloves, and clothing.
Environmental Precautions	Should not be released into the environment. Prevent from reaching drains, sewer or waterway.

Methods and Materials for Containment and Cleaning Up	Wear protective eyewear, gloves and clothing. Sweep or scoop up solid material while minimizing dust generation. Dispose of contents/container in accordance with local regulations.

Section 7: Handling and Storage

Handling	Use only with adequate ventilation. Avoid breathing dust. Do not eat, drink, smoke or use personal products when handling chemical substances.
Storage	Keep container tightly sealed. Keep container dry. Store locked up. Store in a cool, well-ventilated area.

Section 8: Exposure Controls and Personal Protection

Ingredient	CAS Number	Reference	Permissible concentration
Silica, crystalline quartz (Respirable)	14808-60-7	-	ACGIH TLV TWA 0.025 mg/m³ (Respirable fraction)
Total Silica, crystalline quartz	14808-60-7	-	TWA 0.025000 mg/m³ USA. ACGIH
Silica, crystalline quartz (Respirable)	14808-60-7	-	OSHA 8-hour TWA PEL: 0.025 mg/m³ (Respirable fraction, action level)
Silica, crystalline quartz (Respirable)	14808-60-7	-	OSHA 8-hour TWA PEL: 0.05 mg/m³ (Respirable fraction, exposure limit level)
Total Silica, crystalline quartz	14808-60-7	-	TWA 30.000000 mg/m3 / %SiO_2+2 USA. OSHA
Total Silica, crystalline quartz	14808-60-7	-	TWA 0.050000 mg/m³ USA. NIOSH
Silica, crystalline quartz (Respirable)	14808-60-7	-	NIOSH TWA 0.05 mg/m³

Exposure Control Measures	Avoid contact with skin, eyes, and clothing. Wash hands before breaks and at the end of work. Wash contaminated clothing before reuse. Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls. Biological monitoring may also be appropriate for some substances.
Biological Monitoring	No biological exposure limits noted for the ingredient(s).
Engineering Controls	Emergency eyewash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Individual Protection Measures	**Eye and face protection:** Safety goggles or glasses, or appropriate eye protection. **Skin and body protection:** Select glove material impermeable and resistant to the substance. Wear appropriate clothing to prevent any possibility of skin contact. **Respiratory protection:** If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Section 9: Physical and Chemical Properties

Appearance	Solid; tan powder
Auto-Ignition Temperature	Not available
Decomposition Temperature	2460°F (1350°C)
Evaporation Rate	Not applicable
Flammability	Not available
Flash Point	Not available
Initial Boiling Point and Boiling Range	Not applicable
Melting Point/Freezing Point	Not available
Odour	Low
Odour Threshold	Not available
Partition Coefficient	Not available
pH	11 - 12 when wet
Relative Density	2.96 – 2.98 at 20°C
Solubility	Partially soluble
Upper/Lower Flammability or Explosive Limits	Not available
Vapour Density	Not applicable
Vapour Pressure	Not applicable
Viscosity	Not applicable

Section 10: Stability and Reactivity

Reactivity	Does not react under normal conditions of use and storage.
Chemical Stability	Stable under normal conditions of use and storage.
Hazardous Reactions	None under normal conditions of use and storage.
Conditions to Avoid	None known.
Incompatible Materials	None known.
Hazardous Decomposition Products	None known.

Section 11: Toxicological Information

Acute Toxicity

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

Product data: No data is available.

Substance data: No data is available.

Skin Corrosion/Irritation

Assessment: Causes skin irritation.

Product data: No data is available.

Substance data:

Name	Result
Dicalcium silicate	Causes skin irritation.

Serious Eye Damage/Irritation

Assessment: Causes serious eye damage.

Product data: No data is available.

Substance data:

Name	Result
Dicalcium silicate	Causes serious eye damage.

Respiratory or Skin Sensitisation

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

Product data: No data is available.

Substance data: No data is available.

Germ Cell Mutagenicity

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

Product data: No data is available.

Substance data: No data is available.

Carcinogenicity

Assessment: May cause cancer.

Product data: No data is available.

Substance data:

Name	Species	Result
Silica, crystalline quartz (Respirable)	Not applicable	Component may cause cancer
Total Silica, crystalline quartz	-	1 - Group 1: Carcinogenic to humans (Quartz)

International Agency for Research on Cancer (IARC):

Name	Classification
Silica, crystalline quartz (Respirable)	Group 1 - Carcinogenic to humans

National Toxicology Program (NTP):

Name	Classification
Silica, crystalline quartz (Respirable)	Known to be human carcinogens

Reproductive Toxicity

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

Product data: No data is available.

Substance data: No data is available.

STOT Single Exposure

Assessment: May cause respiratory irritation

Product data: No data is available.

Substance data:

Name	Result
Dicalcium silicate and Calcium Sulphate	May cause respiratory irritation.

STOT Repeated Exposure

-

Aspiration toxicity

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

Product data: No data is available.

Substance data: No data is available.

Section 12: Ecological Informations

Ecotoxicity

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

Product data: No data available.

Substance data: No data available.

Persistence and Degradability

Product data: No data available.

Substance data: No data available.

Bioaccumulative Potential	**Product data:** No data available. **Substance data:** No data available.
Mobility in Soil	**Product data:** No data available. **Substance data:** No data available.
Other Adverse Effects	No data available.

Section 13: Disposal Considerations

Waste Disposal	It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities.
Legislation	-

Section 14: Transport Information

UN Number	Not regulated
Proper Shipping Name	Not regulated
Transport Hazard Class	None
Packing Group Number	None
Environmental Hazards for Transport Purposes	None
Special Precautions for User	None
Hazchem Code	-

Section 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 Medicines and Poisons (SUSMP).
Classifications	Safe Work Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals (GHS Revision 7).
Inventory Listings	**Australian Inventory of Chemical Substances:**

12004-14-7	Aluminum calcium oxide sulfate	Listed
10034-77-2	Dicalcium silicate	Listed
7778-18-9	Calcium sulphate	Listed

14808-60-7	Silica, crystalline quartz	Listed

Section 16: Other Information

Additional Information

Australian and New Zealand Standards

AS 2161: Industrial Safety Gloves and Mittens (excluding electrical and medical gloves).

AS/NZ 1336: Recommended Practices for Occupational Eye Protection.

AS/NZS 1715: Selection, use and maintenance of respiratory protective devices.

AS/NZS 1716: Respiratory protective devices.

AS/NZS 4501: Occupational protective clothing.

Abbreviations

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

GHS - Globally Harmonized System

mg/m³ - 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)

SWA - Safe Work Australia

TLV - Threshold Limit Value

TWA - Time Weighted Average

ACGIH - American Conference of Governmental Industrial Hygienists

IARC: International Agency for Reach on Cancer

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

NIOSH: National Institute for Occupational Safety and Health Administration

OSHA: Occupational Safety and Health Administration

Advice Notes

This document has been compiled by Antoun based on information concerning the product which has been provided to Antoun 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.

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