SAFETY DATA SHEET

Rapid Set Concrete Mix

Section 1: Identification of the Material and Suppliers

Product Name	Rapid Set Concrete Mix
Product Code	130010060, 130013000, 130040045, 130040047, 130040050, 131010060, 132013000, 132040050
Recommended Use	Industrial use
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 corrosion/irritation - Category 2 Serious eye damage/eye irritation - Category 1 Carcinogenicity - Category 1A Specific Target Organ Toxicity, Single Exposure - Category 3 respiratory tract irritation Specific Target Organ Toxicity, Repeated Exposure - Category 2 (Lungs)
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	P308+P313 If exposed or concerned: 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.
	P312 Call a POISON CENTER or doctor/physician if you feel unwell.
	P302+P352 IF ON SKIN: Wash with plenty of soap and water.
	P332+P313 If skin irritation occurs: Get medical advice/attention
	P362 Take off contaminated clothing and wash before reuse
	P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Storage Statements	P402 Store in dry place.
	P403+P233 Store in a well ventilated place. Keep 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
Calcium Sulfoaluminate Cement	960375-09-1	20-35%
Silica sand, quartz	14808-60-7	65-80%

Section 4: First Aid Measures

Description of First Aid Measures

Eye	Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Inhalation	If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a physician if symptoms develop or persist.
Skin	Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
Ingestion	Immediately rinse mouth and drink plenty of water. Call an ambulance and take these instructions. Get medical attention if symptoms occur.

Advise to Doctor	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.
First Aid Facilities	Not determined or not applicable.
Most Important Symptoms and Effects, Both Acute and Delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Upper respiratory tract irritation. Coughing. Discomfort in the chest. Shortness of breath. Wheezing. Skin irritation.
Immediate Medical Attention and Special Treatment Needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Section 5: Firefighting Measures

Extinguishing Media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.
Specific Hazards	During fire, gases hazardous to health may be formed.
Advice for Firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Move containers from fire area if you can do so without risk. Use standard firefighting procedures and consider the hazards of other involved materials.
Hazchem Code	None allocated

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe dust. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Environmental Precautions	Avoid discharge into drains or water courses.
Methods and Materials for Containment and Cleaning Up	Stop the flow of material if this is without risk. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner. Minimize dust generation and accumulation. Prevent entry into waterways, sewer, basements, or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

Section 7: Handling and Storage

Handling	Provide appropriate exhaust ventilation at places where dust is formed. Minimize dust generation and accumulation. Do not breathe dust. Do not get this material in contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Storage	Store in original tightly closed container. Store in dry location. Store away from incompatible materials (see Section 10 of the SDS).

Section 8: Exposure Controls and Personal Protection

Ingredient	CAS Number	Reference	TWA		STEL	
			ppm	mg/m^3	ppm	mg/m^3
Total Silica, crystalline quartz	14808-60-7	SWA (AUS)	-	0.05	-	-
Silica, crystalline quartz (Respirable)	14808-60-7	SWA (AUS)	-	0.05	-	-

Exposure Control Measures	Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.
Biological Monitoring	No biological exposure limits noted for the ingredient(s).
Engineering Controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ventilation should be sufficient to effectively remove and prevent build up of any dusts or fumes that may be generated during handling or thermal processing. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. Eye wash facilities and emergency shower must be available when handling this product.
Individual Protection Measures	**Eye/face protection** Wear safety glasses or safety goggles unless full face respirator is in use. **Skin protection** Wear appropriate chemical resistant gloves. Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. **Respiratory protection** Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.
Thermal Hazards	Wear appropriate thermal protective clothing, when necessary.
General Hygiene Considerations	When using, do not eat, drink, or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Observe any medical surveillance requirements.

Section 9: Physical and Chemical Properties

Appearance	Solid tan powder
Auto-Ignition Temperature	Not applicable
Decomposition Temperature	2460°F (1350°C)
Evaporation Rate	Not applicable
Flammability	Non combustible
Flash Point	Not applicable
Initial Boiling Point and Boiling Range	Not applicable
Melting Point/Freezing Point	Not applicable
Odour	Low
Odour Threshold	Not available
Partition Coefficient	Not applicable
pH	11-12 when wet
Relative Density	2.7-3.1 @ 20°C
Solubility	Not available
Upper/Lower Flammability or Explosive Limits	Not applicable
Vapour Density	Not applicable
Vapour Pressure	Not applicable
Viscosity	Not applicable
Bulk Density	60 lb/ft³
VOC (Weight %)	0 g/l when mixed with water

Section 10: Stability and Reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage, and transport.
Chemical Stability	Material is stable under normal conditions.
Hazardous Reactions	No dangerous reaction known under conditions of normal use.

Conditions to Avoid	Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).
Incompatible Materials	Powerful oxidizers.
Hazardous Decomposition Products	Carbon oxides. Sulfur oxides. Silicium oxide.

Section 11: Toxicological Information

Information on likely routes of exposure

Inhalation

May cause damage to organs through prolonged or repeated exposure by inhalation. Inhalation of dusts may cause respiratory irritation. Prolonged inhalation may be harmful.

Skin contact

Causes skin irritation. Prolonged contact with wet cement/mixture may cause burns.

Eye contact

Causes serious eye damage. Prolonged contact with wet cement/mixture may cause burns.

Ingestion

Swallowing may cause gastrointestinal irritation.

Acute Toxicity	May cause respiratory irritation.
Skin Corrosion/Irritation	Causes skin irritation.
Serious Eye Damage/Irritation	Causes serious eye damage.
Respiratory or Skin Sensitisation	No data available.
Germ Cell Mutagenicity	No data available to indicate product or any components present at greater than 0.1 % are mutagenic or genotoxic.
Carcinogenicity	May cause cancer. In 1997, !ARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis

	exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk ... " (SCOEL SUM Doc 94-frnal, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled.
Reproductive Toxicity	May damage fertility or the unborn child.
STOT Single Exposure	May cause respiratory irritation.
STOT Repeated Exposure	May cause damage to organs (Lungs) through prolonged or repeated exposure.
Chronic Effects	Prolonged or repeated exposure may cause lung injury, including silicosis. May cause skin disorders if contact is repeated or prolonged.

Section 12: Ecological Informations

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and Degradability	No data is available on the degradability of this product.
Bioaccumulative Potential	No data available.
Mobility in Soil	No data available.
Other Adverse Effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Section 13: Disposal Considerations

Waste Disposal	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.
Legislation	Dispose in accordance with all applicable regulations. Keep material out of storm water and sewer drains.

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	None

Section 15: Regulartory 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	All chemicals listed on the Australian Inventory of Chemical Substances (AICS)

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

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.

While Antoun 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, Antoun 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