

SDS-02 SAFETY DATA SHEET

CONCRETE (PRE-MIXED CONCRETE)

SECTION 1: PRODUCT IDENTIFIER AND IDENTIFY FOR THE CHEMICAL

PRODUCT

Product Identifier	Lima South Quarry Pty Ltd – Concrete (Pre-mixed Concrete)
Other Means of Identification	-
Recommended Use	Building material, concrete, wet mix concrete

DETAILS OF MANUFACTURER

Manufacturers Name	Lima South Quarry Pty Ltd
Manufacturers ABN	26 036 371 410
Manufacturers Address	184 Williams Road, Lima South, Victoria, 3673
Manufacturers Phone Number	(03) 5768 2366 (7.00am – 5.00pm Monday to Friday ONLY)
Manufacturers Email	admin@lsquarry.com.au
Manufacturers Website Address	www.lsquarry.com.au
Emergency Phone Number	000 (available in Australia ONLY)
Poisons Information Centre	13 11 26 (available in Australia ONLY)

SECTION 2: HAZARD IDENTIFICATION


HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA.

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE AUSTRALIAN CODE FOR THE TRANSPORT OF DANGEROUS GOODS BY ROAD AND RAIL, 7TH EDITION (ADG).

CLASSIFICATION OF THE HAZARDOUS CHEMICAL

GHS Classifications	Skin Sensitization: Category 2 Serious Eye Damage / Eye Irritation: Category 1 Specific Target Organ Systemic Toxicity (Repeated Exposure): Category 3 (Respiratory Irritation)
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LABEL ELEMENTS INCLUDING PRECAUTIONARY STATEMENTS

Signal Word	DANGER	
Pictograms		
Hazard Statements	H315	Causes skin irritation.
	H318	Causes serious eye damage.
	H335	May cause respiratory irritation.
Prevention Statements	P261	Avoid breathing dust / fume / gas / mist / vapours / spray.
	P264	Wash thoroughly after handling.
	P271	Use only outdoors or in well ventilated area.
	P280	Wear protective gloves / protective clothing / eye protection / face protection.
Response Statements	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	IF IN EYES: Rinse cautiously with water for several minutes. Remove

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	+ P338	contact lenses. If present and easy to do. Continue rinsing.
	P310	Immediately call a POISON CENTER or doctor / physician.
	P321	Specific treatment is advised – see first aid instructions.
	P332 + P313	If skin irritation occurs: Get medical advice / attention.
	P362	Take off contaminated clothing and wash before re-use.
Storage Statements	P403 + P233	Store in a well ventilated place. Keep container tightly closed.
	P405	Store locked up.
Disposal Statements	P501	Dispose of contents / containers in accordance with relevant state and local regulations.

OTHER HAZARDS WHICH DO NOT RESULT IN CLASSIFICATION

Some susceptible individuals may exhibit an allergic skin response upon exposure to portland cement, possibly due to trace amounts of chromium.

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

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

IDENTITY OF CHEMICAL INGREDIENTS	CAS NUMBER	EC NUMBER	CONCENTRATION OF INGREDIENTS
Concrete Sand	Not available	Not available	<85%
Portland Cement	65997-15-1	266-043-4	3 - 60%
Silica (Amorphous-Precipitated)	7699-41-4	231-716-3	<20%
Metallic Oxide Pigment(s)	Not available	Not available	<5%
Non Hazardous Ingredients	Not available	Not available	Remainder
Crushed Stone, Gravel or Blast Furnace Slag	Not available	Not available	<95%
Fly Ash	68131-74-8	268-627-4	<30%
Polypropylene or Steel Fibre(s)	Not available	Not available	<10%
Polystyrene Beads	Not available	Not available	<10%
Crystalline Silica	Not available	Not available	Not available

SECTION 4: FIRST AID MEASURES

ROUTE OF EXPOSURE	DESCRIPTION OF NECESSARY FIRST AID MEASURE	SYMPTOMS CAUSED BY EXPOSURE	MEDICAL ATTENTION AND SPECIAL TREATMENT
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. Rinse mouth with water	Dryness and/or abrasion of mouth and throat.	If symptoms persist, seek medical attention.
Eye Contact	If in eyes, hold eyelids apart and flush continuously with running water. Continue	Redness and/or watering of eyes. Aggravation of existing eye condition.	If symptoms persist, seek medical attention.

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	flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.		
Skin Contact	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	Redness and/or dryness of skin. Aggravation of existing skin condition.	If symptoms persist, seek medical attention.
Inhalation	Due to product form / nature of use, an inhalation hazard is not anticipated	Shortness of breath coughing and/or sneezing. Aggravation of existing respiratory condition.	If symptoms persist, seek medical attention.
First Aid Facilities	Eye wash facilities and safety shower should be available.		
Acute / Delayed	Irritating and potentially corrosive to the eyes and skin. Due to the product form (wet-mix), over exposure via inhalation is not anticipated with normal use, unless dust is generated via cutting, grinding, machining, etc dry/set product. 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).		
Immediate	Treat symptomatically.		

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media	No specific extinguishing media is necessary.
Specific Hazards Arising from the Chemical	Non-flammable. May evolve toxic gases if strongly heated.
Special Protective Precautions and Equipment for Firefighters	No specific firefighting protection is required.
Hazchem Code	None Allocated.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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
Environmental Precautions	Prevent product from entering drains and waterways.
Methods and Materials for Containment and Cleaning Up	Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal.
Reference to Other Sections	See Sections 8 and 13 for exposure controls and disposal.

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SECTION 7: HANDLING AND STORAGE

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.
Conditions for Safe Storage, Including Any Incompatibilities	Where storage is applicable, store in a clean, dry, well ventilated area, removed from incompatible substances and foodstuffs. Ensure containers are adequately labelled. Store removed from direct sunlight.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS

Appropriate Engineering Controls	Avoid generating dust. All work with should be carried out in such a way as to minimise exposure to dust and repeated skin contact. Where dust could be generated whilst handling, use local mechanical ventilation or extraction in areas where dust could escape into the work environment.
Personal Protective Equipment (PPE)	<p>Personal protective equipment (PPE) should be used only when other control measures have been found to be impracticable or in conjunction with one or more control measures.</p> <p>Eye and face protection Wear safety glasses and / or splash-proof goggles. (Refer to AS/NZ 1336).</p> <p>Skin protection Long sleeves, long pants, boots and PVC or rubber gloves to be worn. (Refer to AS/NZ 2161).</p> <p>Respiratory protection Not specified.</p>



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Grey Slurry
Odour	Characteristic Odour
Odour Threshold	Not Determined
Flammability	Non Flammable.
Flash Point	Not Determined
Upper Explosive Limit	Not Determined
Lower Explosive Limit	Not Determined
Autoignition Temperature	Not Determined
pH	12-13
Melting Point/Freezing point	Not Determined
Boiling Point and Boiling Range	Not Determined
Vapour Density	Not Determined

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Vapour Pressure	Not Determined
Specific Gravity	2.3
Evaporation Rate	Not Determined
Partition Coefficient	Not Determined
Solubility (water)	Forms a slurry.
Decomposition Temperature	Not Determined
Viscosity	Not Determined
Explosive Properties	Not Determined
Oxidising Properties	Not Determined

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Carefully review all information below.
Chemical Stability	Stable.
Conditions to Avoid	Avoid heat sources and direct sunlight.
Incompatible Materials and Possibility of Hazardous Reactions	Incompatible with oxidising agents (e.g. hypochlorites), ethanol, interhalogens (e.g. chlorine trifluoride) and acids. Polymerization is not expected to occur.
Hazardous Decomposition Products	May evolve toxic gases if heated to decomposition.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Routes of Exposure	<p>Ingestion - Ingestion may result in nausea, vomiting and gastrointestinal irritation.</p> <p>Eye Contact - Causes serious eye damage. Contact may result in irritation, lacrimation, pain, redness, conjunctivitis and possible alkaline burns. Caution: Prolonged contact with wet-mix may cause serious eye damage.</p> <p>Skin Contact - Causes skin irritation. Contact may result in irritation, redness, pain, rash and dermatitis. Caution: Prolonged contact with wet-mix may cause serious skin burns.</p> <p>Inhalation - 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.</p>
Immediate, Delayed and Chronic Health Effects from Exposure	<p>Mutagenicity - Insufficient data available to classify as a mutagen.</p> <p>Carcinogenicity - This product contains crystalline silica which is classified as carcinogenic to humans (IARC Group 1). However, there is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis. Therefore, preventing the onset of silicosis will also reduce the cancer risk. Hexavalent chromium compounds are classified as carcinogenic to humans (IARC Group 1), however due to the trace amounts present, the criteria for classification is not met.</p> <p>Reproductive - Insufficient data available to classify as a reproductive toxin.</p> <p>STOT – single exposure - Over exposure to dust (if generated) may result in irritation of the nose and throat, with coughing. High level exposure may result in breathing difficulties.</p> <p>STOT – repeated exposure - Due to the product form (wet-mix), over exposure via inhalation is not anticipated with normal use. However, if dust is generated via cutting, grinding, machining, etc dry/set product, repeated exposure to respirable</p>

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silica may result in pulmonary fibrosis (silicosis). Silicosis is a fibronodular lung disease caused deposition in the lung of fine respirable particles of crystalline silica. Principal symptoms of silicosis are coughing and breathlessness.

Aspiration - Not expected to present an aspiration hazard.

SECTION 12: ECOLOGICAL INFORMATION

Eco-toxicity	No ecological data is available for this material.
Persistence and Degradability	No information provided.
Bio-accumulative Potential	No information provided.
Mobility in Soil	No information provided.
Results of PBT and vPvB assessment	No information provided.
Other Adverse Effects	No specific adverse effects known.

SECTION 13: DISPOSAL CONSIDERATIONS

Safe Handling and Disposal Methods	Reuse or recycle where possible. Ensure measures are taken to prevent dust generation. Dispose of to an approved landfill site. Contact the manufacturer/supplier for additional information (if required).
Environment Regulations	Dispose of in accordance with relevant local legislation.

SECTION 14: TRANSPORT INFORMATION

UN Number	None Allocated
Proper Shipping Name	None Allocated
Transport Hazard Class	None Allocated
Packing Group	None Allocated
Environmental Hazards	None Allocated
Special Precautions During Transport	None Allocated
Hazchem Code	None Allocated

SECTION 15: REGULATORY INFORMATION

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)].			
Poisons Schedule Number	None Allocated.			
WHS Regulatory Information	Ingredient	CAS Number	Regulation	Details
	Crystalline Silica	-	Restricted Hazardous Chemicals	Free silica (crystalline silicon dioxide). For abrasive blasting >1%.



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			Schedule 14 - Health Monitoring	Crystalline silica
Inventory listing(s)	AUSTRALIA: AICS (Australian Inventory of Chemical Substances) All components are listed on AICS, or are exempt.			
Chemical safety assessment	No information provided.			

SECTION 16: OTHER INFORMATION

Contact	For further information, please contact the Manager from the relevant site.
Additional Information	<p>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.</p> <p>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.</p> <p>Health Effects From Exposure: It should be noted that the effects from exposure to this product will depend on several factors including: form of product; 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.</p> <p>Personal Protective Equipment Guidelines: The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, 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.</p>

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END OF SDS