

SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Company Details:	Hymix Australia Pty Ltd ABN 35 000 582 221	
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Emergency Contact	1800 882 478	

Product:

Other Names/Synonyms	CONCRETE, PREMIXED CONCRETE Ready-mixed concrete, Grout, Mortar
Use	Premixed concrete is used for a wide variety of building and construction applications
Other Information	Plastic concrete begins to harden about one hour after delivery and is quite hard within eight hours. The rate of setting depends on ambient conditions (temperature, wind and humidity) and the concentration of cementitious ingredients

SECTION 2: HAZARDS IDENTIFICATION

HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA

Classification of the substance or mixture

GHS classifications Skin Corrosion Category 1 Serious Eye Damage – Category 1 Skin Sensitisation Category 1 Specific Target Organ Toxicity (Repeated Exposure) Category 2

Label elements Signal word WARNING Pictograms



Hazard Statement(s)

- H302 Harmful if swallowed
- P280 Wear protective gloves/clothing/eye protection.
- H314 Causes severe skin burns and eye damage
- H317 May cause an allergic skin reaction
- H318 Causes serious eye damage
- H373 May cause damage to lungs by inhalation (dust from dried product)

Premixed Concrete

Safety Data Sheet



Prevention Statement(s)

- P260 Do not breathe dust.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product
- P272 Contaminated work clothing should not be allowed out of the workplace
- P280 Wear protective gloves/ protective clothing.

Response Statement(s)

- □ P301 + P330 − If swallowed, rinse mouth. Do NOT induce vomiting.
- □ P303 + P361 + P353 If on skin, immediately remove all contaminated clothing. Rinse skin with water.
- P305 + P351 + P338 If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to
- P312 Call a Poison Centre or doctor if you feel unwell.
- P314 Get medical advice/attention if you feel unwell.
- □ P333 + P313 If skin irritation or rash occurs, get medical advice/attention.
- □ P363 Wash contaminated clothing before reuse.

Storage Statement(s)

None Allocated

Disposal Statement(s)

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

Other Hazards

- □ This product may contain crystalline silica. Crystalline silica dust is classified as Hazardous.
- The product, when it solidifies as supplied, is classified as non-hazardous.
- Dust created when the product is cut, abraded, or crushed may contain crystalline silica some of which may be respirable (particles small enough to go into the deep parts of the lung when breathed in).
- A proportion of the fine dust in/on the supplied product may be respirable crystalline silica.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

All significant constituents are listed below:

CAS	Proportion
14808-60-7	20 - 85 %
NA	20 – 85 %
65997-15-1	10 – 60 %
1333-82-0	2-20 ppm
7732-18-5	0 - 20 %
	0-20%
	0-10%
7699-41-4	0-10%
	2-10%
9003-53-6	0-60% by volume
	0-10%
	0-10%
	14808-60-7 NA 65997-15-1 1333-82-0 7732-18-5 7699-41-4

Note:

- Chromium VI is a trace impurity in Portland Cement.
- Portland Cement, Sand, Crushed stone, Gravel, Blast Furnace Slag and Fly Ash may contain crystalline silica (quartz). Depending on the source of the material for the above ingredients. The crystalline silica content of the final product can vary from product to product.
- Cementitious additives may contain traces of metals

SECTION 4: FIRST AID MEASURES

- SwallowedRinse mouth and lips with water. Do not induce vomiting. If symptoms persist,
seek medical attentionEyeFlush thoroughly with flowing water, while holding eyelids open, for 15 minutes
to remove all traces. If symptoms such as irritation or redness persist, seek
medical attentionSkinRemove heavily contaminated clothing. Wash off skin thoroughly with water.
Use a mild soap if available. Shower if necessary. Seek medical attention for
persistent redness, irritation or burning of the skinInhaledRemove the source of contamination or move the victim to fresh air. Ensure
airways are clear and have a qualified person give oxygen through a face
mask if breathing is difficult. If irritation persists seek medical attention
- First Aid Facilities Eye wash and normal washroom facilities

Advice to Doctor: Treat symptomatically or consult a Poisons Information Centre

SECTION 5: FIRE FIGHTING MEASURES

Flammability:	Not flammable or combustible
Hazards from combustion products:	None
Suitable extinguishing media:	Not applicable
Special protective precautions ands equipment for fire fighters:	None
Hazchem code:	None allocated

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spills:

- Dust is best cleaned up by vacuum device to avoid making dust airborne. Wetting down before sweeping up dust may be a useful control measure
- Recommendations on Exposure Controls / Personal Protection (see Section 8 below) should be followed during spill clean-up if conditions are dusty

Plastic concrete;

- Recover spilled material by shovelling into containers and using mechanical sweepers, but avoid generating dust. Prevent spillage or wash down water from entering sewers drains, stormwater and watercourses
- If contamination of drains or watercourses has occurred, advise the relevant state environment protection agency and the company



Disposal:

May be disposed of as inert landfill in accordance with local authority regulations

SECTION 7: HANDLING AND STORAGE

Storage Precautions	No special storage requirements
Transport	Not classified as a Dangerous Goods, according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (6th Edition)
Handling	Prevent all contact with skin. Ensure a high level of personal hygiene is maintained when using this product. That is; always wash hands before eating, drinking, smoking or using the toilet
Proper Shipping Name	None Allocated

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

The following applies to dust from this product:

Exposure Limits: Workplace Exposure Standards for Airborne Contaminants, Safe Work Australia.

- Exposure to dust should be kept as low as practicable, and below the following NES:-
- Crystalline silica (quartz): 0.05 mg/m3 TWA (time-weighted average) as respirable dust
- Total dust (of any type, or particle size): 10 mg/m3 TWA
- Chromium VI: 0.05 mg/m3 -sensitiser

All occupational exposures to atmospheric contaminants should be kept to as low as reasonably practicable and in all cases to below the Workplace Exposure Standard (WES).

TWA (Time Weighted Average): the time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life. According to current knowledge this concentration should neither impair the health of, nor cause undue discomfort to, nearly all workers.

Engineering Controls:

- All work should be carried out in such a way as to minimise dust generation, and exposure to dust.
- Mechanical ventilation: Dust extraction and collection may be used, if necessary, to control airborne dust levels
- □ Work areas should be cleaned regularly



Personal Protection:

Skin:	Prevent all contact with skin
	When handling wet concrete personnel should wear loose comfortable clothing and
	impervious boots, suitable protective/impervious gloves
	Contact with plastic concrete will cause severe irritation and possible chemical burns, cement dermatitis and dry skin
	Portland cement is alkaline in nature so plastic concrete and mortars are strongly
	alkaline (pH of 12 -13). Strong alkalines, like strong acids, are harmful or caustic to the skin. This may produce alkali burns
	 Portland cement is hygroscopic - it absorbs water. Plastic concrete needs water to
	harden. It will draw water away form any other material in contacts, including skin. This will irritate and dry the skin
	Ensure a high level of personal hygiene is maintained when using this product. That is;
	always wash hands before eating, drinking, smoking or using the toilet
	Remove all contaminated clothing. Wash gently and thoroughly with tepid water and non- abrasive soap. If irritation develops and persists seek medical attention. Wash hands
Even	before eating, or smoking Safety glasses with side shields or safety goggles (AS/NZ 1336) or a
Eyes	face shield should be worn Plastic concrete will cause severe irritation in contact with the eyes, which will result in redness, stinging and lachrymation. Alkaline properties may
	produce severe alkali burns or serious eye damage.
	Dry concrete dust may cause mechanical irritation resulting in redness and lachrymation
Respiratory:	Where engineering and handling controls are not enough to minimise exposure to total dust and to respirable crystalline silica, personal respiratory protection may be
	required. The type of respiratory protection required depends primarily on the concentration of the respirable crystalline silica dust in the air, and the frequency and length of exposure time. Amount of exertion required during the work, and personal comfort are other considerations in choice of respirator.
	A suitable P1 or P2 particulate respirator chosen and used in accordance
	with AS/NZS 1715 and AS/NZS 1716 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
	For dust levels approaching or exceeding the NES (see above) a more effective particulate
	respirator providing a greater protection factor should be worn. Procedures for effective use of respirators should be applied and supervised
	Do not contaminate the home environment with dusty work clothes and shoes.
	Do not shake out work clothes before laundering
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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Vapour Pressure

Boiling Point/range

Freezing/melting point

Vapour Density

Specific gravity

Ignition Temp

Particle Size

Flash Point

Solubility

Odour

Ph

A moldable generally grey mixture which will set and harden to become a stable solid. Colour may vary from near white to any other colour Some added ingredients used in concrete may create a smell of ammonia >7.0 dry state. >10 in wet plastic state Not determined Not determined Not determined Melting point >1200 0C Not soluble. Can react on mixing with water forming an alkaline solution with Ph >11 2.4 to 2.5 (water=1) Not applicable Not applicable Upper and lower flammability Limits Not applicable A proportion of the dust may be respirable (below 10 microns) and if it becomes airborne constitutes an exposure if inhaled.

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability:	Chemically Stable
Condition to avoid:	Keep away from water Dust generation.
Incompatible materials:	None
Hazardous Decomposition: Products	None
Hazardous Reactions:	None

Crystalline silica is stable, compatible with other materials, does not polymerise, and will not decompose into hazardous by-products.

SECTION 11: TOXICOLOGICAL INFORMATION

Health Effects

Acute (short term)-

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Swallowed	Unlikely in normal use in industrial situation .Concrete is abrasive and mildly corrosive. Swallowing either plastic or hardened concrete will result in abdominal discomfort. Symptoms can include nausea, stomach cramps and vomiting
Eye	Plastic concrete will cause severe irritation in contact with the eyes, which will result in redness, stinging and lachrymation. Alkaline properties may produce severe alkali burns or serious eye damage.
	Dry concrete dust may cause mechanical irritation resulting in redness and lachrymation
Skin	Contact with plastic concrete will cause severe irritation and possible chemical burns, cement dermatitis and dry skin
	Portland cement is alkaline in nature so plastic concrete and mortars are strongly alkaline (pH of 12 -13). Strong alkalines, like strong acids, are harmful or caustic to the skin. This may produce alkali burns
	Portland cement is hygroscopic - it absorbs water. Plastic concrete needs water to harden. It will draw water away from any other material in contacts, including skin. This will irritate and dry the skin
Inhaled	Sprayed plastic concrete droplets and dry concrete dust may irritate the nose, throat and



respiratory tract causing coughing, sneezing and breathing difficulties. Pre-existing upper respiratory and lung diseases included asthma and bronchitis may be aggravated

Chronic (long ter	m) -
Eyes	In dust form may cause inflammation of the cornea
Skin	Repeated or prolonged skin contact with plastic concrete can dry the skin and cause alkali burns due to the caustic nature of the product. This condition is described as irritant contact dermatitis. Some individuals may experience allergic dermatitis because there are trace amounts of water soluble hexavalent chromium salts (Chromium VI) present in Portland Cement (0 - 20ppm). Once a person is sensitised to water soluble chromates any further skin exposure to chromates will bring back the symptoms
Inhaled	Plastic concrete is not considered a chronic inhalation hazard Repeated exposure to the dust may result in increased nasal and respiratory secretions and coughing. Inflammation of lining tissue of the respiratory system may follow repeated exposure to high levels of dust with increased risk of bronchitis and pneumonia Long term occupational over-exposure or prolonged breathing-in (or inhalation) of crystalline silica dust at levels above the NES carries the risk of causing serious and irreversible lung disease, including bronchitis, and silicosis (scarring of the lung), including acute and/ or accelerated silicosis. It may also increase the risk of other irreversible and serious disorders including scleroderma (a disease affecting the skin, joints, blood vessels and internal organs) and other auto-immune disorders Inhalation of dust, including crystalline silica dust, is considered by medical authorities to increase the risk of lung disease due to tobacco smoking The product contains a proportion of respirable free crystalline silica in the quartz component. Crystalline silica (inhaled in the form of quartz or cristobalite from occupational sources) has been classified by The International Agency for Research on Cancer (IARC) as carcinogenic to humans (Group 1).
Other Information	Inhalation of airborne particles from other sources in the work environment, including those from cigarette smoke, may increase the risk of respiratory diseases. It is recommended that all storage and work areas should be smoke free zones and that other airborne contaminants

SECTION 12: ECOLOGICAL INFORMATION

should be kept to a minimum

Ecotoxity	Product forms an alkaline slurry when mixed with water
Persistence and Degradability	Product is persistent and is non-degradable
Mobility	Low mobility would be expected in a landfill situation
Dust	Crystalline silica is non-toxic to aquatic and terrestrial organisms; is not biodegradable; is insoluble and is expected to have low mobility in landfill



SECTION 13: DISPOSAL CONSIDERATIONS

Spills and Leaks

- Plastic concrete; Recover spilled material by shovelling into containers and using mechanical sweepers, but avoid generating dust. Prevent spillage or wash down water from entering sewers drains, stormwater and watercourses
- □ If contamination of drains or watercourses has occurred, advise the relevant state environment protection agency and the company

Disposal

May be disposed of as inert landfill in accordance with local authority regulations. Measures should be taken to prevent dust generation during disposal and exposure and personal precautions should be observed (see above).

SECTION 14: TRANSPORT INFORMATION

UN Number	None Allocated
UN proper Shipping name	None Allocated
Class and subsidiary risk	None Allocated
Packing Group	None Allocated
Hazchem Code	None Allocated
Special precautions for user	See Above
DG class	None Allocated

SECTION 15: REGULATORY INFORMATION

Classification

- □ Hazardous according to ASCC/NOHSC criteria and not classified as Dangerous Goods
- Exposures by inhalation to high levels of dust may be regulated under the Hazardous Substances Regulations (State and Territory) as they are applicable to Respirable Crystalline Silica, requiring exposure assessment, and control of inhalation exposure below the NES
- Persons who have potential for exposure above the NES may be required by Regulations to have periodic health surveillance including Chest X-ray (see relevant State Government Regulations and SWA (ASCC/NOHSC documentation)



SECTION 16: OTHER INFORMATION

Emergency Contact No (All hours) 1800 882 478

Emergency Contact No (Office Hours)

Contact For further information contact the Risk Manager at your nearest Hymix office;

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END OF SDS