

METRO MIX CONCRETE (VIC) PTY. LTD.

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SAFETY DATA SHEET (SDS)

Premixed Concrete

(In accordance with Safe Work Australia WHS Regulations & GHS)

SECTION 1: IDENTIFICATION

- **Product Name:** Premixed Concrete
 - **Other Names:** Ready-Mix Concrete, Exposed Aggregate, Polished Concrete
 - **Recommended Use:** Used in building and construction as a structural material (e.g., foundations, slabs, pavements)
 - **Supplier:** Metro Mix Concrete (VIC) Pty Ltd
 - **Address:** 42-46 Cahill Street Dandenong South VIC 3175
 - **Phone:** 03 9551 8890
 - **Emergency Contact:** Poisons Information Centre 13 11 26 (24/7 Australia-wide)
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SECTION 2: HAZARD IDENTIFICATION

Classified as hazardous according to GHS and Model WHS Regulations



GHS Classification:

- Skin Corrosion/Irritation: Category 1C
- Serious Eye Damage/Irritation: Category 1
- Skin Sensitisation: Category 1
- Specific Target Organ Toxicity (STOT) – Repeated Exposure: Category 2 (lungs)
- Carcinogenicity: Category 1A (respirable crystalline silica)

Signal Word: DANGER

Hazard Statements:

- H314: Causes severe skin burns and eye damage
- H317: May cause an allergic skin reaction
- H318: Causes serious eye damage
- H350: May cause cancer by inhalation (crystalline silica)
- H373: May cause damage to organs (lungs) through prolonged or repeated exposure (inhalation)

Precautionary Statements:

- P260: Do not breathe dust/fumes
- P280: Wear protective gloves/eye protection/face protection
- P303 + P361 + P353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower
- P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do
- P501: Dispose of contents/container in accordance with local regulations

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS Number	Proportion (% w/w)	Notes
Portland Cement	65997-15-1	10 – 20%	Contains trace hexavalent chromium
Aggregates (Sand, Gravel, Stone)	Not applicable	65 – 80%	May contain crystalline silica
Water	7732-18-5	5 – 15%	
Crystalline Silica (Quartz)	14808-60-7	5 – 30% (in aggregates)	Respirable fraction is hazardous
Chemical Admixtures (plasticisers, retarders, etc.)	Various	<1%	Non-hazardous in dilute forms

SECTION 4: FIRST AID MEASURES**Inhalation:**

Move to fresh air. If breathing difficulty persists, seek medical attention.

Skin Contact:

Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention for irritation or burns.

Eye Contact:

Rinse immediately with clean water for at least 15 minutes. Remove contact lenses. Seek urgent medical care.

Ingestion:

Do not induce vomiting. Rinse mouth with water. Seek medical attention immediately.

Advice to Doctor:

Treat symptomatically. Wet concrete is strongly alkaline and may cause chemical burns. Crystalline silica may cause delayed lung injury (silicosis with chronic exposure).

SECTION 5: FIREFIGHTING MEASURES

- **Flammability:** Not flammable
 - **Suitable Extinguishing Media:** Use media suitable for surrounding fire
 - **Hazards from Combustion:** None specific to product; may emit toxic fumes from surrounding materials
 - **Special Protective Equipment:** Firefighters should use SCBA and protective equipment
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SECTION 6: ACCIDENTAL RELEASE MEASURES**Personal Precautions:**

Use PPE (gloves, goggles, mask). Avoid contact with eyes, skin, and inhalation of dust from dried residues.

Environmental Precautions:

Prevent wet concrete from entering drains or watercourses.

Cleanup:

Contain wet mix. Collect with non-metallic tools. Allow to harden before disposal. Dispose in accordance with local regulations.

SECTION 7: HANDLING AND STORAGE**Handling:**

- Use in well-ventilated areas
- Avoid skin and eye contact
- Use PPE to prevent exposure

Storage:

- Store in cool, dry conditions away from acids and incompatible materials
 - Avoid excessive moisture during transport and storage
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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards (Safe Work Australia):

Substance	TWA	STEL	Notes
Portland Cement	10 mg/m ³	-	As inhalable dust
Crystalline Silica (Quartz, respirable)	0.05 mg/m ³	-	Known human carcinogen

Engineering Controls:

- Provide local exhaust ventilation where dust may be generated (dry residues)
- Wet cutting and handling techniques recommended to reduce airborne dust

Personal Protective Equipment (PPE):

- **Eyes:** Safety goggles or face shield
- **Skin:** Impermeable gloves, long sleeves, rubber boots
- **Respiratory:** P2 (or higher) respirator when exposed to concrete dust
- **Hygiene:** Wash hands and exposed skin thoroughly after handling

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Grey to off-white slurry
Odour	Earthy/alkaline (mild)
pH	>12 (alkaline)
Boiling Point	~100°C (water content)
Melting Point	Not applicable
Vapour Pressure	Not applicable
Solubility in Water	Partially miscible
Specific Gravity	~2.2 – 2.4
Flammability	Non-flammable
Flash Point	Not applicable
Explosive Properties	None
Auto-Ignition Temperature	Not applicable

SECTION 10: STABILITY AND REACTIVITY

Reactivity:

Alkaline; reacts with acids and some metals (e.g., aluminium, releasing hydrogen gas)

Chemical Stability:

Stable under normal storage and use conditions

Conditions to Avoid:

Exposure to acids, high humidity (storage), incompatible materials

Incompatible Materials:

Acids, ammonium salts, aluminium, oxidising agents

Hazardous Decomposition Products:

None under normal conditions

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Effects:

- **Inhalation:** Inhalation of dust (from dried concrete) can cause respiratory irritation
- **Skin Contact:** Causes burns or irritation due to alkalinity; prolonged contact may lead to dermatitis
- **Eye Contact:** Causes serious eye damage and potential blindness
- **Ingestion:** May cause burns to mouth and gastrointestinal tract

Chronic Effects:

- **Crystalline Silica (Quartz):**
 - Prolonged inhalation of respirable dust can lead to **silicosis**, a progressive and irreversible lung disease
 - Classified as a **Group 1 carcinogen (IARC)** – may cause **lung cancer**
 - **Sensitisation:** Portland cement may cause allergic contact dermatitis in sensitised individuals (due to chromium compounds)
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SECTION 12: ECOLOGICAL INFORMATION

- **Ecotoxicity:** Wet concrete is harmful to aquatic life due to high pH
 - **Persistence & Degradability:** Not biodegradable; will harden into solid, inert form
 - **Bioaccumulation Potential:** Not bio accumulative
 - **Mobility in Soil:** Low once set
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SECTION 13: DISPOSAL CONSIDERATIONS

- Allow wet concrete to harden before disposal
- Dispose of hardened material as construction waste in accordance with local regulations

- Do not allow wash water to enter stormwater or watercourses
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SECTION 14: TRANSPORT INFORMATION

- **UN Number:** Not applicable
 - **Proper Shipping Name:** Not applicable
 - **Dangerous Goods Class:** Not classified
 - **Packing Group:** Not applicable
 - **Hazchem Code:** Not applicable
 - **Special Precautions:** Avoid spills into waterways
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SECTION 15: REGULATORY INFORMATION

- **Classified as hazardous under Model WHS Regulations**
 - **Crystalline Silica** is listed on the **AIC** and identified as a **hazardous chemical** under Safe Work Australia
 - All components are compliant with Australian Inventory of Industrial Chemicals (AIIC)
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SECTION 16: OTHER INFORMATION

SDS Prepared By: Metro Mix Concrete (VIC) Pty Ltd

Date of Issue: January 01, 2025

Revision Number: 1.0

References:

- Safe Work Australia
- GHS (Globally Harmonized System)
- NICNAS/AIIC Database
- Australian Dangerous Goods Code (ADG)

Notice to Reader

This Safety Data Sheet provides a general overview of the potential hazards associated with ready mix concrete as typically used. However, it may not cover every possible situation. Users without experience should seek appropriate training before handling this product. Additionally, this sheet does not address risks that may arise from other substances mixed with ready mix concrete. Users are advised to consult other relevant safety data sheets before using or working with products made from ready mix concrete.

No Warranty Disclaimer

Metro Mix Concrete (VIC) Pty Ltd provides no warranties—express or implied—regarding the product, its merchantability, or its fitness for any particular purpose. The only assurance given is that the product will meet contracted specifications. While the information in this sheet is believed to be accurate at the time of preparation and derived from reliable sources, it remains the user's responsibility to verify relevant

information, comply with applicable regulations, and determine whether the product is suitable for their intended use.

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