



CCS Materials Pty Ltd

Material Safety Data Sheet

CONCRETE BLEND

November 2022

1. Product Identification of the Material and Supplier

Company Details: CCS Materials Pty Ltd
Clutha Creek Road, Tamborine. QLD. 4270
PH: 5543 6376 Fax: 5543 6287
ABN: 46 060 029 423

Product Name: Concrete Blend

Other Names: Concrete Aggregates Mix, Concrete Sand & Stone Mix .

Use: This product is used in a variety of building and construction applications.

2. Hazards Identification

Hazardous Substance –
Non-Dangerous Goods

Crystalline silica (quartz) may be constituent of the sand, crushed stone, gravel, on any particular Concrete Blend. Crystalline silica dust is classified as Hazardous, as outlined in Australian Safety and Compensation Commission ASCC (Formerly NOHSC) Approved Criteria for Classifying Hazardous Substances (NOHSC:1008) 3rd Edition.

This product as supplied is classified as hazardous according to criteria of Worksafe Australia. Once solidified as supplied, this product is classified as non-hazardous.

The following Health Hazards apply to this product:

Health Effects: Acute

Swallowed: Unlikely. Will result in abdominal discomfort.

Eye: Wet Concrete Blend and dry Concrete Blend dust will irritate the eyes.

Skin: Wet Concrete Blend may result in dermatitis to the skin.

Inhaled: Irritating to the nose, throat and respiratory system causing coughing and sneezing.

Chronic (long term)

Eyes: May cause inflammation of the cornea when in contact with Concrete Blend in dust form.

Skin: Repeated contact with Concrete Blend, described as irritant contact dermatitis.

Inhaled: Wet Concrete Blend is not considered a chronic inhalation hazard. Repeated exposure to the dust can result in coughing and increased nasal and respiratory secretions. Inflammation of the respiratory systems tissue lining may follow repeated exposure to high levels of dust with increased risk of bronchitis and pneumonia. Long term occupation inhalation of crystalline silica dust at levels higher than the NES carries the risk of causing serious and irreversible lung disease – including bronchitis and silicosis. It may also increase the risk of developing other irreversible disorders including scleroderma and other auto-immune disorders.

Inhalation of regular and silica dust is considered to increase the risk of lung disease due to tobacco smoking.



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3. Composition/ Information on Ingredients

Ingredients:	<u>Name</u>	<u>Proportion</u>
	Sand	20-85%
	Crushed stone, gravel	20-85%
	<u>Mode of Rock</u>	<u>Proportion</u>
	Quartz	66%
	Feldspar	4%
	Lithic fragments	5%
	Mica/ micaceous aggregates	15%
	Quartzite	10%
	Basaltic	40%

4. First Aid Measures

Swallowed: Rinse mouth and lips with water. Do not induce vomiting.

Eye: Flush eyes thoroughly with flowing water. If irritation or redness persist, seek medical attention.

Skin: Remove heavily contaminated clothing. Wash off skin with water. Seek medical attention for persistent redness, irritation or burning of the skin.

Inhaled: Move the victim to fresh air or move the source of contamination. Seek medical attention if required.

First Aid: Eye wash station

Advice to Doctor: Treat in relevance to moderate to strong alkali. Contact Poisons Information Centre if required.

5. Fire Fighting Measures

Not Applicable. This product is non-flammable and does not support combustion of other material.

6. Accidental Release Measures

Spills: Dust is best cleaned up by vacuum device. Wetting down before sweeping up the dust is recommended. For wet Concrete Blend; recover the spilled product by shoveling into appropriate containers and using mechanical sweepers. Avoid generating dust and/or washing down sewer drains, storm water drains and watercourses. If contamination into drainage system occurs, notify the relevant state environment protection agency and the company.

Disposal: This product may be disposed of as inert landfill in accordance with local authority regulations.



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7. Handling and Storage

There are no special storage requirements however when handling the product, avoid contact with skin.

8. Exposure controls / Personal Protection

Exposure Controls:

Applicable to the dust from this product:

Exposure to dust should be kept as low as practicable, and below the following NES:

- Crystalline silica (quartz): 0.1mg/m³ time-weighted average as respirable dust
- Total dust of any size or type: 10mg/m³ time-weighted average

All work should be carried out in such a way as to minimise the generation of dust and the exposure to dust.

Personal Protection:

Skin: Wear comfortable protective clothing conforming to Australian & New Zealand Standard AS/NZS 4501 Occupation Protective Clothing. Including knee pads, impervious boots and gloves. After working with this product, workers are advised to shower with soap and water.

Eyes: Safety spectacles with side shields or safety goggles should be worn.

Respiratory: Where dust generation occurs, wear a class P1 or P2 particulate respirator (AS/NZS 1715 & 1716). Only use respirators that comply with Australian Standards and are fitted correctly.

9. Physical and Chemical Properties

Appearance: A generally grey gritty mixture which will become a stable solid. Color may vary.

Odour: Nil.

Ph: >5.0 dry state.

Solubility: Not soluble. However, can react when mixed with water.

10. Stability and Reactivity

Condition to avoid: Dust generation.

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



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11. Toxicological Information

Health Effects:

Acute (short term)

Swallowed: Unlikely. Concrete Blend is abrasive and mildly, swallowing this material either dry or wet may result in abdominal discomfort.

Eye: Concrete Blend can cause irritation when it comes into contact with eyes, which can result in redness and stinging.

Skin: Contact with Concrete Blend can cause irritation and possibly, dry skin and mild dermatitis.

Inhaled: Dust particles of Concrete Blend may irritate the throat, nose, respiratory tract causing coughing, sneezing and breathing difficulties. Pre-existing upper respiratory and lung conditions including asthma may also be aggravated.

Chronic (long term)

Eyes: May cause inflammation of the cornea when in contact with Concrete Blend in dust form.

Skin: Repeated contact with Concrete Blend can cause dry skin, described as irritant contact dermatitis.

Inhaled: Concrete Blend is not considered a chronic inhalation hazard. Repeated exposure to the dust can result in coughing and increased nasal and respiratory secretions. Inflammation of the respiratory systems tissue lining may follow repeated exposure to high levels of dust with increased risk of bronchitis and pneumonia. Long term occupational inhalation of crystalline silica dust at levels higher than the NES carries the risk of causing serious and irreversible lung disease – including bronchitis and silicosis. It may also increase the risk of developing other irreversible disorders including scleroderma and other autoimmune disorders.

Inhalation of regular and silica dust is considered to increase the risk of lung disease due to tobacco smoking.

12. Ecological Information

Concrete Blend poses no ecological risk. They are non-toxic to aquatic and terrestrial organisms and are not biodegradable.

13. Disposal Considerations

Spills & Leaks: Measures should be taken to prevent dust generation during disposal. And may be disposed of in local landfill.

14. Transport Information

There are no special transport requirements.

15. Regulatory Information

This product is classified as Hazardous according to ASCC/NOHSC criteria and is not classified as Dangerous Goods.

Exposures by inhalation to high levels of dust may be regulated under the Hazardous Substances Regulations (State & 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 regular health assessments.



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16. Other Information

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Please be advised that the information provided in this document is believed to be accurate. Users are advised to make their own determination as to the suitability of this information in relation to their particular purposes and specific circumstances. Each user is advised to read the MSDS and consider the information in the context of how the product will be handled and used in the workplace, including in conjunction with other products.

