

SAFETY DATA SHEET – RECYCLED CERAMIC TILE

1. IDENTIFICATION OF THE MATERIAL/MIXTURE AND SUPPLIER

Product Name	10mm Ceramic Aggregate, -5mm Ceramic Dust
Synonyms	Aggregate and Dust
Recommended Uses	Pipe drainage, side, and overlay, retaining wall drainage, slab, footpath, and driveway bedding
Supplier	Concrush Pty Ltd
Address	21 Racecourse Road, Teralba NSW 2284
Telephone	(02) 4958 3777
Website	www.concrush.com.au
Contact	Ross Lo Monaco (02) 4958 3777 (7am-5pm, Monday-Thursday) (7am-4pm Friday-Saturday)
Emergency After Hours	Kevin Thompson 0408 687 093 Poison Information Centre (AU) 13 11 26

This Safety Data Sheet (SDS) is issued by Concrush Pty Ltd in accordance with the requirements of SafeWork NSW 'Code of Practice: Preparation of Safety Data Sheets for Hazardous Chemicals, December 2022', WHS Regulations (Hazardous Chemicals) Amendment 2020, and Australian Dangerous Goods. As such, the information in it must not be altered, deleted or added to. Concrush Pty Ltd will not accept any responsibility for any changes made to its SDS by any other person or organisation.

2. HAZARDS IDENTIFICATION




Classification of the substance or mixture

No evidence was identified that indicates that the article¹ (whole, finished ceramic tile product) is hazardous to health according to Globally Harmonized System (GHS). No acute or chronic effects are known from exposure to intact ceramic tiles.

However, airborne dust generated from the use of powered tools for dry cutting, drilling, or grinding during installation may contain respirable-sized particles of crystalline silica (SiO₂) which can cause illness or disease if inhaled. The below hazard identification refers to the circumstance where airborne dust is generated from a ceramic tile and not an intact ceramic tile.

¹ SafeWork NSW (2022): A manufactured item, other than a fluid or particle, that is formed into a particular shape or design during manufacture and has hazard properties and a function that are wholly or partly dependent on the shape or design.

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Label Elements		
Signal Word	Warning	
GHS Classification	Hazard Statements	Pictograms
CRYSTALLINE SILICA DUST CATEGORY 3 (H335)	May cause respiratory tract irritation.	
CRYSTALLINE SILICA DUST CATEGORY 1 (H372)	Causes damage to organs (lung/ respiratory) through prolonged or repeated exposure (inhalation).	
CRYSTALLINE SILICA DUST CATEGORY 1A (H350)	May cause cancer (inhalation). Specific target organ toxicity following repeated exposure	
Prevention Statements		
P203	Obtain, read and follow all safety instructions before use.	
P260	Do not breathe dust	
P264	Wash hands thoroughly after handling.	
P271	Use only outdoors or in a well-ventilated area.	
P272	Contaminated work clothing should not be allowed out of the workplace.	
P280	Wear protective gloves/protective clothing/eye and face protection	
Response Statements		
P332 + P317	Obtain, read and follow all safety instructions before use. IF SKIN irritation occurs: Get emergency medical help. IF exposed or concerned: Get medical advice/attention.	
P304+P340, P319	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help if you feel unwell.	

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3. COMPOSITION AND INFORMATION ON INGREDIENTS

Composition	Ceramic aggregate and dust are composed of materials from the crushing and screening of ceramic tiles from clean manufactures waste.	
Chemical Nature	Content	
Quartz - SiO_2	>60%	
Mullite - $\text{Al}_6\text{Si}_2\text{O}_{13}$	10-<30%	
Potassium feldspar - KAlSi_3O_8	<6%	
Clinopyroxene subgroup – $\text{Ca}(\text{Mg,Fe})\text{Si}_2\text{O}_6$	<3%	
Othe ingredients not hazardous	<1%	

4. FIRST AID MEASURES

Eye	Flush eyes with plenty of water for 15 minutes. Keep rotating the eyes to ensure complete flushing of all particles. Contact Poison Information Centre or a doctor if irritation persists or any abrasions/ burns occur.
Skin	Wash skin thoroughly with cool water and mild soap. Launder contaminated clothing before re-use.
Inhaled	Remove affected person promptly to fresh air. Contact Poison Information Centre or a doctor for discomfort or if coughing or other symptoms do not subside. If required, provide artificial respiration. Consult doctor if symptoms persist. In case of unconsciousness place patient in a stable side position for transportation.
Swallowed	Due to product form and application, ingestion is considered unlikely. For advice, contact Poison Information Centre or a doctor.
Notes to Doctor	Treat symptomatically.

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5. FIRE FIGHTING MEASURES

Extinguishing Media	Not relevant. The product is non-combustible and will not burn. Use extinguishing media appropriate for any surrounding fire.
Fire Fighting Procedures	Not relevant. The product is non-combustible and will not burn. Avoid breathing dust. Crushed tile does not pose a fire-related hazard.
Hazardous Composition Products	Nil.

6. ACCIDENTAL RELEASE MEASURES

General Measures	Avoid creating excessive dust. Clean up dust with a vacuum system with a High-efficiency particulate (HEPA) air filter vacuum or damp sweeping. See Section 8 of this SDS concerning PPE information for clean-up.
Waste Disposal Methods	Dispose of waste according to federal, state or local regulations.
Emergency Procedures	Not relevant.

7. HANDLING AND STORAGE

Precautions for Safe Handling	Minimise dust generation and accumulation. Undertake any cutting or grinding in a well-ventilated area. Use wet cutting methods to reduce generation of dust. Use effective engineering controls and respiratory protection. Wear appropriate PPE as described in Section 8.
Conditions for Safe Storage	Ensure adequate load-bearing capacity of ground, floors or platforms when storing material.
Incompatibilities	Not relevant.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure to material should be kept as low as practicable.

Australian Workplace Exposure Standards

Respirable crystalline silica (RCS) 0.05 mg/m³

Engineering Controls

Ventilation	<p>If cutting or grinding, avoid inhalation. Control exposure to RCS using engineering controls such as:</p> <ul style="list-style-type: none"> - Enclosed or isolated automation when cutting, grinding or drilling. - Wet processing methods. - Local exhaust ventilation. - Using powered tools designed to be fitted with local exhaust ventilation and/or a water attachment to suppress dust. - Clean up dust with an M or H-class industrial vacuum cleaner.
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Personal Protective Equipment

Respiratory Protection	Not required when handled under normal conditions. When risk of dust generation is possible e.g. during installation, use a fit tested RPE.
Eye Protection	Wear approved safety glasses, goggles or face shield when dust is being generated by cutting, drilling, chasing, grinding, sanding or polishing.
Foot Protection	Wear safety footwear.
Skin Protection	Wear cloth or leather gloves to protect hands against abrasion. Impervious gloves and apron should be worn when handling wet product.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Varies. Solid ceramic tiles, immiscible in water.
Boiling Point	Not relevant.
Melting Point	Not relevant.
Vapour pressure	Not relevant.
Bulk density	Not available.
Flash Point	Not flammable.
Flammability Limits	Not flammable.
Auto ignition temperature	Not relevant.
Solubility in water	Insoluble.

10. STABILITY AND REACTIVITY

Chemical Stability	Chemically stable.
Incompatible Materials	Not relevant.
Conditions to Avoid	Not relevant.
Hazardous Decomposition Products	Not relevant.
Hazardous Reactions	Not relevant.

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11. TOXICOLOGICAL INFORMATION

Acute toxicity	Unlikely under occupational exposure to intact tile.
Skin corrosion/irritation	Repeated contact may cause irritation and drying of skin.
Serious eye damage/irritation	Airborne dust or fragments may cause immediate or delayed irritation or inflammation. Eye contact with large amounts of tile-generated dust can cause moderate eye irritation and abrasion. Eye exposures require immediate first aid and medical attention to prevent significant damage to the eye.
Respiratory or skin sensitisation	No evidence identified.
Germ cell mutagenicity	No evidence identified.
Carcinogenicity	For inhalation exposure to RCS in dust generated by cutting or grinding tile - Classified by the IARC as Group 1: CARCINOGENIC TO HUMANS.
Reproductive toxicity	No evidence identified.
Toxicity for specific target organ - single exposure	No evidence identified.
Toxicity for specific target organ - repeated exposure	For inhalation exposure to RCS in dust generated by cutting or grinding tile – can cause silicosis, progressive massive fibrosis, chronic obstructive pulmonary disease, and chronic bronchitis.
Aspiration hazard	No evidence identified.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Material is non-toxic to ecosystems.
Persistence and Degradability	Product is persistent and has a low degradability.
Mobility	Low mobility would be expected in landfill situations.

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13. DISPOSAL INFORMATION

Disposal Method	Dispose of waste and containers in compliance with applicable federal, state and local regulations. Suitable for disposal to landfill sites. Keep out of stormwater and sewer drains.
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14. TRANSPORTATION INFORMATION

UN number	Not relevant.
Proper shipping name or technical name	Not relevant.
Transport hazard class	Not relevant.
Packing group number	Not relevant.
Environmental hazards for transport purposes	Not relevant.
Special precautions for user	Not relevant.
Additional information	Not relevant.
Hazchem or emergency action code	Not relevant.

15. REGULATORY INFORMATION

Exposures by inhalation of high levels of dust may be regulated under the Hazardous Substances Regulation as they are applicable to Respirable Crystalline Silica.

Silica requiring exposure assessment, controls and health surveillance (NOHSC).

A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

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16. OTHER INFORMATION	
Issue Date	May 2025
Produced by	WSP Australia Pty Ltd
Reference Document	SafeWork NSW (2022) Code of practice: Preparation of Safety Data Sheets for Hazardous Chemicals December 2022.
Packing group number	
Not relevant.	