

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: QUARRY PRODUCTS
Synonyms: CONCRETE AGGREGATE, ROAD BASE AGGREGATE, FILL, DECORATIVE AGGREGATE, DRAINAGE AGGREGATE, CAPPING, GARDENING APPLICATIONS, LANDSCAPING

Uses: CONSTRUCTION AND DOMESTIC APPLICATIONS

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2. HAZARDS IDENTIFIED

Hazard Summary: Respirable dust, generated by high energy processes such as crushing and screening and abrasion during transportation, contains crystalline silica which is hazardous. Respirable dust particles are small enough in size that, if inhaled, may penetrate deep into the lungs.

Hazard Category: Carcinogenicity - Category 1A
 Specific target organ toxicity (repeated exposure) - Category 1

Signal word: Danger

Pictograms:



Hazard statements:
 H350 May cause cancer by inhalation.
 H372 Causes damage to lungs through prolonged or repeated exposure if inhaled.

Precautionary statements:

Prevention:
 P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P260 Do not breathe dust, mist or spray.
 P264 Wash thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P281 Use personal protective equipment as required.

Response:
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P314 Get medical advice/attention if you feel unwell.

Storage:
 P405 Store locked up.

Disposal:
 P501 Dispose of contents and container in accordance with local, regional, national, international regulations.

Other hazards: The hazard information provided in the safety data sheet applies to respirable crystalline silica dust particles only.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Components	CAS Number	EC Number	Proportion
Crystalline Silica	14808-60-7	238-878-4	97%
Muscovite	-	-	2%
Ferruginous staining	-	-	1%

4. FIRST AID MEASURES

Eye:	If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a medical professional, or for at least 15 minutes.
Inhalation:	If inhaled remove from contaminated area.
Skin:	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water until dust is removed.
Ingestion:	Due to product form and application, ingestion is considered unlikely.

Most important symptoms and effects, both acute and delayed:

Repeated exposure to crystalline silica may result in lung fibrosis (silicosis). Principal symptoms of silicosis are coughing and breathlessness. The respirable fraction of crystalline silica is classified as carcinogenic to humans (IARC Group 1).

Immediate medical attention and special treatment needed:

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Extinguishing media:	Use an extinguishing agent suitable for the surrounding fire.
Special hazards arising from the substance or mixture:	Non flammable
Advice for firefighters:	No fire or explosion hazard exists.
Hazchem code:	None allocated.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS.

Environmental precautions:

Prevent product from entering drains and waterways.

Methods of cleaning up:

Moisten with water to prevent a dust hazard and place in sealable containers for disposal or reuse.

Reference to other sections:

See Sections 8 and 13 for exposure controls and disposal.

7. HANDLING AND STORAGE

Precautions for safe handling:

Use of safe work practices and respiratory protection measures are recommended to avoid eye or skin contact and inhalation.

Conditions for safe storage, including any incompatibilities:

Manage stockpiles to avoid dust generation and lift off, run off and collapse.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Control parameters:

The Workplace Exposure Standard for Crystalline Silica (respirable fraction) as published by SafeWork Australia is - 0.05mg/m³ (TWA 8hr)

Exposure Controls:

Engineering controls: Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Wet where possible. Exposure levels should be maintained below the workplace exposure standard.

PPE	
Eye/Face:	If crushing or screening with the potential for dust generation, wear dust-proof goggles, safety glasses or other eye protection.
Hands:	Wear suitable gloves
Body:	Wear long sleeved shirt with sleeves down and full-length trousers.
Respiratory:	If crushing or screening or where there is potential for exposure to dust, wear a fit tested P2 class (particulate) respirator or other a positive air respirator pending the outcome of a Risk Assessment.



9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical formula:	SiO ₂
Relevant properties	
Appearance:	Solid, ivory coloured rock
Odour:	None
pH:	Approximately 7
Flammability:	Non-flammable.
Specific gravity (Relative density):	2.0 – 3.0 at 20°C
Solubility:	Insoluble

10. STABILITY AND REACTIVITY

Reactivity:	Reacts with hydrofluoric acid.
Chemical stability:	Stable under normal conditions of use.
Possibility of hazardous reactions:	Hazardous polymerisation is not expected to occur
Conditions to avoid:	Avoid dust generation.
Incompatible materials:	Incompatible with alkaline aqueous solutions, hydrofluoric acid, catechol.
Hazardous decomposition products:	known

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute toxicity: Acute silicosis occurs after a short exposure to very high levels of respirable crystalline silica and the alveolar spaces fill with a lipid and proteinaceous exudate. This could occur in exposure in confined spaces where respiratory protection is not worn. The condition causes rapidly progressive dyspnoea and death, usually within months of onset. Workers with acute silicosis may be expected to have a largely restrictive functional abnormality with gas exchange abnormalities.

Chronic effects: Inhaling respirable crystalline silica dust over a long period can lead to chronic silicosis, an incurable lung disease that can lead to disability and death. RCS can also contribute to lung cancer, renal cancer and chronic obstructive pulmonary disease (COPD).

Skin irritation: Repeated or prolonged skin contact may lead to irritation.

Eye contact: May be an eye irritant. Exposure to the dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes.

Respiratory/skin sensitisation: Not classified as causing skin or respiratory sensitisation.

Carcinogenicity: This material has been classified by the International Agency for Research on Cancer (IARC) as a Group 1 agent. Group 1 - The agent is carcinogenic to humans.

Reproductive toxicity: Not classified as a reproductive toxin.

Specific Target Organ Toxicity (single exposure)

Specific Target Organ Toxicity (repeated exposure)

Aspiration: Breathing in dust may result in respiratory irritation.

12. ECOLOGICAL INFORMATION

Toxicity: The substance is inert and there is no evidence of significant toxicity.

Persistence and degradability: Being inorganic, the substance will not biodegrade.

Mobility in soil: N/A

Other adverse effects: The main component/s of this product are not anticipated to cause any adverse effects to plants or animals.

13. DISPOSAL CONSIDERATION

Waste treatment methods: Keep waste products damp to prevent dust lift of.

Waste disposal: Reuse where possible. No special precautions are normally required when handling this product.

Legislation: Dispose of in accordance with relevant local legislation.

14. TRANSPORTATION INFORMATION

NON-DANGEROUS GOODS. Not classified as a dangerous goods by road (ADG Code), air (IATA) or sea IMDG).

15. REGULATORY INFORMATION

Safework Australia criteria is based on the Globally Harmonised System of Classification and Labelling of Chemicals.

Workplace exposure standards are also available from the Hazardous Chemical Information System (HSIS) online database, which can be accessed from the Safe Work Australia website or at <http://hcis.safeworkaustralia.gov.au/>.

16. OTHER INFORMATION

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since DMC cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use.

If clarification or further information is needed, the user should contact their DMC representative or DMC operations at the contact details on page 1.