



MATERIAL SAFETY DATA SHEET

“Hazardous according to criteria of Worksafe Australia”

<p>COMPANY DETAILS</p> <p>Company: Earth Commodities Bundaberg Pty Ltd A.B.N. 96062194405</p> <p>Postal Address: PO Box 4251 Bundaberg South QLD 4670</p> <p>Telephone Number: (07) 4159 7811</p> <p>Emergency Only Number: 0428 159 290</p> <p>Available 8:00am – 5:00pm Monday to Friday</p>	<p>UN Number: None Allocated</p> <p>Dangerous Goods Class & Sub-risk: None Allocated</p> <p>Hazchem Code: None Allocated</p> <p>Emerg. Guide:</p> <p>Packaging Method: None Allocated</p> <p>Poison Schedule: None Allocated</p>
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1. PRODUCT IDENTIFICATION

Product Name:	SPECIALISED SANDS & GRAVELS
Other Names:	5mm+3mm, 3mm Blend, 2mm Blend, -1.5mm+150um, 1mm Blend, -1mm, -1mm+600um, -1mm+400um, -1mm+250um, Bundy 800, -600um, -400um, -250um, -200um Superfine, -1.5mm Washed Only, Superfine Washed Only.

PHYSICAL DESCRIPTION/PROPERTIES	
Appearance:	Granular material, ranging in size from 10um to 10mm.
Melting Point (oC)	Melting Point >1200oC
Solubility in Water:	<2gms/litre
Bulk Density:	1500kg/m3

INGREDIENTS	CAS NO.	PROPORTION
Silica (Quartz)	14808 – 60 – 7	60 - 100
NOTE: Quartz is crystalline silica.		
NOTE: Sands may contain varying quantities of <u>respirable</u> crystalline silica. The respirable fraction normally increases with the 'dustiness' of the material.		

11. HEALTH HAZARD INFORMATION

HEALTH EFFECTS	
(A) SHORT TERM (ACUTE) EXPOSURE:	
Swallowed:	Fine material may irritate mucous membranes of mouth, esophagus and stomach. This is considered to be an unlikely entry route for adults.
Eyes:	Irritating.
Skin:	Irritating.



Inhaled: Irritating to upper respiratory tract.

(B) LONG TERM (CHRONIC) EXPOSURE:

Inhaled: Repeated inhalation of dust containing respirable crystalline silica can cause bronchitis, silicosis (scarring of the lung) and lung cancer.

It may also increase the risk of scleroderma (a disease affecting the connective tissue of the skin, joints, blood vessels and internal organs). Studies have shown that smoking increases the risk of bronchitis, silicosis and lung cancer in persons exposed to crystalline silica.

FIRST AID

Swallowed: Wash mouth and lips with water. Do not induce vomiting. Give water or milk to dilute stomach contents. Seek medical attention, if symptoms persist.

Eyes: Irrigate with copious quantities of clean water or saline solution for at least 15 minutes. Seek medical attention if discomfort persists. Continue irrigating the eyes with clean water or saline solution while transporting to medical facility.

Skin: Clean and dress skin abrasions. Remove dusty clothing. Wash skin with tepid soapy water; shower if required. Apply skin moisturiser.

Inhaled: Move immediately to fresh air. Seek medical attention, if symptoms persist.

First Aid Facilities: Eye wash station.

ADVICE TO DOCTOR Treat symptomatically.

111. PRECAUTION FOR USE

EXPOSURE STANDARDS – WORKSAFE AUSTRALIA

This product is classified with an exposure standard of:

Dust (NOS-not otherwise specified): 10 mg/m³ TWA (time-weighted average), as inspirable dust.

Crystalline silica (quartz): 0.2 mg/m³ TWA, as respirable dust.

However, where a State or Territory prescribes a lower exposure standard, the lower exposure standard applies.

Refer to **Other Information** in **Section IV, SAFE HANDLING INFORMATION.**

MANUFACTURERS' RECOMMENDATIONS

Keep exposure to dust as low as practical. If inspirable dust levels are kept below 2 mg/m³, health problems such as skin, eye and respiratory irritation may be minimised.

Respirable crystalline silica (quartz) exposure levels should be kept below the recommended action level of 0.1mg/m³.

Respirable dust has an equivalent aerodynamic diameter less than 7 micrometers

ENGINEERING CONTROLS

If the TWA exposure standards above are likely to be exceeded, use local forced ventilation or extraction.

For handling of individual bags, follow safe manual handling practices.

PERSONAL PROTECTION

Always wear suitable protective clothing and respiratory equipment.

Skin: After working with this product, workers are advised to wash with soap and water.

Work clothes should be washed regularly.

Eyes: Safety spectacles with side shields or safety goggles (dust resistant AS/NZ 1336)



should be worn if dust is likely to be generated.

Respiratory: If dust is generated wear a class P1 or P2 particulate respirator (AS/NZS 1715 & 1716).

Use only respirators that comply with Australian Standards and are fitted correctly. Note that persons with facial hair will have difficulty in obtaining a satisfactory face seal. For alternatives see AS/NZS 1715: *Selection and uses of respiratory protective devices*.

Persons with a history of respiratory illness or reduced pulmonary function should avoid places with high dust levels. When cutting or abrading the hardened material manufactured from or with sand and aggregate, keep it wetted with water to avoid creating hazardous dust.

Do not breathe this dust as it may contain various quantities of crystalline silica.

FLAMMABILITY

This product is non-flammable. Does not support combustion of other material.

IV. SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT

Sand and gravel should be stored and transported in a manner to prevent emission of dust.

SPILLS AND DISPOSAL

Spills: Spills may be vacuumed or swept. Avoid generation of dust.

Collect spilled material and seal in clean, dry, labeled containers for disposal.

Clean-up personnel should follow the precautions outlined in **Section III,**

Precautions For Use.

Disposal: This product should be disposed of in accordance with requirements of local authorities. Keep out of sewer and storm water drains.

FIRE/EXPLOSION HAZARD

This product is non-flammable and does not cause dust explosions.

OTHER INFORMATION

In June 1997, crystalline silica was evaluated by the International Agency for Research on Cancer (IARC): "Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1)".

Smoking: Cigarette smoking increases the risk of occupational respiratory diseases. It is recommended that all storage and work area should be smoke-free zones.

For information phone

QLD: (07) 4159 7811

Title of Contact Person: Mine Manager

Issue Date: 24 – 02 - 2009

Approved by: Mine Manager

The information in this document is believed to be accurate. Please check the currency of this MSDS by contacting this Company.

The provision of this information should not be construed as a recommendation to use this product in violation of any patent right or in breach of any statute or regulation. 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 should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including conjunction with other products.