

SAFETY DATA SHEET

PRODUCT AND COMPANY INFORMATION

PRODUCT: Washed Sands, Dry Screened Sands, Unscreened Sands, Filter Sands, Gravels, and Foundry Sands.

USE: Various, product dependant. Refer to Technical Information Sheets

COMPANY: Metro Quarry Group

ADDRESS: **TGS Sand and Soil** **TGS Industrial Sands**
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HAZARDS IDENTIFICATION

Classified as Non-Hazardous - Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

Not Classified as Dangerous Goods - ADG Code

Hazard Statements: H373 – May Cause damage to organs through prolonged or repeated exposure.

Prevention Statements: P260 – Do not breath dust.

As is common to all sand products, there are trace amounts of respirable crystalline silica present. Laboratory analysis shows the concentration is sufficiently low to classify the product as non-hazardous. The presence of respirable crystalline silica is declared in the spirit of full disclosure.

COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Entity</u>	<u>CAS No.</u>	<u>Proportion</u>
Quartz, crystalline silica	14808-60-7	>98%
Non-hazardous, trace impurities		<2%

FIRST AID MEASURES

Inhalation:

If inhaled, remove to fresh air and keep at rest in a comfortable breathing position. Call a poison centre or doctor/physician if you feel unwell.

Ingestion:

If swallowed, call a poison centre or doctor/physician if you feel unwell. Rinse mouth.

Skin Contact:

If on skin: wash with plenty of soap and water.

Eye Contact:

Immediately flush eyes with copious amounts of water for at least 15 minutes. Call a poison centre or doctor/physician if you feel unwell.

Notes on Exposure:

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

FIRE FIGHTING MEASURES

Fire/Explosion Hazard:

Not considered a fire hazard.

Fire Extinguishing Media:

Use an extinguisher appropriate for the surrounding fire.

Hazardous products of combustion:

No known hazardous products of combustion.

ACCIDENTAL RELEASE MEASURES

Emergency procedures:

Provide adequate ventilation.

Methods for cleaning up:

Do not wash product into drainage system. Wear protective clothing.

Contain spill, wet down material to reduce dust formation, and transfer to suitable containers for disposal.

Ventilate area well to remove dust.

Personal precautions

Wear appropriate protective clothing.

HANDLING AND STORAGE

Handling:

Product should be handled so as not to product dust.

Storage:

Product should be stored in a well ventilated area, away from foodstuffs.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Use outside or in a well ventilated area at all times.

Personal protective equipment

Respiratory Protection:

Avoid breathing dust. Where dust is generated during use wear a P1 or P2 particulate disposable or cartridge dust mask (respirator) conforming to Australian Standards AS/NZS 1715: *Selection, use and maintenance of respiratory protective devices* and AS/NZS 1716: *Respiratory protective devices* when exposed to dust and to respirable crystalline silica.

Hand protection

Wear protective gloves

Eye protection

Safety glasses with side shields.

Skin and body protection

The use of gloves is recommended.

Hygiene measures

Wash hands, forearms and face thoroughly after handling the products, before eating, smoking and using the toilet and at the end of the working period.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Variable between bright orange to grey to white (subject to grade)
Odour:	No odour.
pH (@ 25°C, 1+5 solution):	Typical 5.- 7
Melting Point/Freezing Point:	>1200°C
Initial Boiling Point & Boiling Range:	Not determined
Flash Point:	Not applicable
Evaporation Rate:	Not applicable
Flammability:	Not applicable
Upper/Lower Flammability/Explosive Limits:	Not applicable
Vapour pressure:	Not determined
Vapour density:	Not determined
Relative Density:	2.0 to 2.5
Water Solubility:	Insoluble
Partition Coefficient:	Not applicable
Auto-Ignition Temperature:	Not applicable
Decomposition Temperature:	Not determined
Viscosity:	Not applicable

STABILITY AND REACTIVITY

Stability:

Stable under ambient conditions of use and storage.

Conditions to avoid:

Products of this type are stable and unlikely to react in a hazardous manner under normal conditions of use.

Hazardous decomposition:

No known hazardous decomposition products

Hazardous polymerisation:

Will not occur.

TOXICOLOGICAL INFORMATION

Health Effects: Acute

Inhalation:

Inhalation may be harmful.

Swallowed:

Ingestion may be harmful.

Eye:

Causes serious eye irritation.

Skin:

Contact with skin may cause irritation.

ECOLOGICAL INFORMATION

Full ecological studies have not been completed on this product. Negative environmental effects are unlikely.

Persistence/Degradability:

This product is persistent and non-degradable.

Mobility:

Low mobility is expected.

Bioaccumulative potential:

There is no evidence to suggest bioaccumulation will occur.

Other ecological considerations:

The product should not be allowed to enter waterways in excessive quantities.

DISPOSAL CONSIDERATIONS

Method of disposal:

Wet down and transfer to a suitable container. May be disposed of in council landfill. Dispose of in according with all relevant legislation.

Special precautions:

Keep material out of storm water and sewer drains.
Ventilate area well or keep product wetted down to reduce dust.
Wear protective clothing.

TRANSPORT INFORMATION

Not Classified as Dangerous Goods according to the **ADG Code**.

UN Number: None allocated

UN Proper Shipping Name: None allocated

Dangerous Goods Class: None allocated

Subsidiary risk: None allocated

Packing Group: None allocated

Hazchem Code: None allocated

REGULATORY INFORMATION

Poisons schedule: Not Scheduled
According to the Standard for the Uniform Scheduling of Drugs and Poisons

OTHER INFORMATION

MSDS Issue Date: December 2015
Version: 1.00

Key to abbreviations:

ACGIH	American Conference of Governmental Industrial Hygienists
ADG	Australian Code for the Transport of Dangerous Goods by Road and Rail
AICS	Australian Inventory of Chemical Substances
ASCC	Australian Safety and Compensation Council
CAS	Chemical Abstracts Service Registry Number
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
HSIS	Hazardous Substances Information System
ICAO	International Civil Aviation Organisation
IATA	International Air Transport Association
IMDG	International Maritime Organisation Rules
STEL	Short term exposure limit
TWA	Time weighted average
LC _{Lo}	Lethal Concentration Low – lowest concentration causing death
LD _{Lo}	Lethal Dose Low – lowest dose causing death
LC ₅₀	Lethal Concentration required to kill 50% of test population
EC ₅₀	Half maximal effective concentration

Label Precautions:

Do not get in eyes, on skin or on clothing.
Wear appropriate personal protective equipment.
Do not breathe dust.
Use only with adequate ventilation.
Store in a well ventilated area.

Label First Aid:

If ingested, give water. Do not induce vomiting.
If inhaled, remove patient to fresh air.
In case of eye contact, immediately flush eyes with copious amounts of water for at least 15 minutes.
In case of skin contact, remove contaminated clothing and wash contaminated area with plenty of water.

This SDS has been prepared and issued by:

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The information contained herein is based on the present state of our knowledge. This document characterises the product with regard to the appropriate safety precautions, and is only proposed as a guide when applied for its intended use. Each intended user should consult this MSDS, and perform their own appropriate risk assessment in context to how the product will be handled and used in the workplace. Sharp and Howells Pty Ltd will not be responsible for any loss or damages resulting from use of or reliance on the information and advice contained herein.