

SAFETY DATA SHEET

SECTION 1 – PRODUCT AND COMPANY INFORMATION

PRODUCT:

- Regular Concrete Sand
- Raw 300

USE: Various Quarry Products. Refer to Technical Information Sheets

COMPANY: **MQG Sand and Soil Pty Ltd** **MQG Sand and Soil Pty Ltd**

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SECTION 2 – HAZARDS IDENTIFICATION

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

Not Classified as Dangerous Goods - ADG Code

Signal Word: Danger



Pictogram: GHS08 (Health Hazard)

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

Hazard Statements: H350 – May cause cancer by inhalation
H372 – Causes damage to organs (lungs) through prolonged or repeated exposure if inhaled

Prevention Statements: P260 – Do not breath dust.
P264 – Wash skin thoroughly after handling
P270 – Do not eat, drink or smoke when using this product
P280 – Wear protective gloves/protective clothing/eye protection/face protection

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

| <u>Chemical Entity</u> | <u>CAS No.</u> | <u>Proportion</u> |
|--|----------------|-------------------------|
| Quartz, Crystalline Silica (Contains Respirable Crystalline Silica) | 14808-60-7 | > 95% > 0.5 % < 5 %) |
| Non-hazardous, trace impurities | | < 5% |

SECTION 4 – FIRST AID MEASURES

General Advice:

Consult a physician. Show this safety data sheet to the doctor in attendance.

Inhalation:

If inhaled, remove to fresh air and keep at rest in a comfortable breathing position. If not breathing, give artificial respiration. Call a poison centre or doctor/physician if you feel unwell.

Ingestion:

Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek medical attention if you feel unwell.

Skin Contact:

Remove contaminated clothing near affected skin area. Wash with plenty of water and mild soap. Seek medical attention for any persistent redness or irritation.

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).

SECTION 5 – FIRE FIGHTING MEASURES

Fire/Explosion Hazard:

Not considered a fire hazard. Substance is non-flammable

Fire Extinguishing Media:

Not applicable. Use an extinguisher appropriate for the surrounding fire.

Hazardous products of combustion:

No known hazardous products of combustion.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Emergency procedures:

Provide adequate ventilation. Avoid dust formation.

Methods for cleaning up:

Do not wash product into drainage system. Wear protective clothing. Prevent further leakage if safe to do so. 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. Avoid dust formation. Avoid breathing dust, vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

SECTION 7 – HANDLING AND STORAGE

Handling:

Product should be handled so as not to produce dust. Avoid contact with skin and eyes. Provide appropriate exhaust ventilation at places where dust is formed.

Storage:

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

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:

Components with workplace control parameters:

| Component: | CAS-No.: | Value: | Control Parameters: | Basis: |
|----------------------------------|------------|--------|--|--|
| Quartz (SiO ₂) | 14808-60-7 | TWA | 0.05 mg/m ³ as respirable dust | Australia – Workplace Exposure Standards for Airborne Contaminants. |
| Dusts not otherwise specified | --- | TWA | 10 mg/m ³ total dust | |

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

Wear safety glasses with side shields/safety goggles (AS/NZ 1336) or a face shield.

Skin and body protection

The wearing of enclosed shoes, long pants and long-sleeved shirt 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.

SECTION 9 – 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 |

SECTION 10 – 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.

Incompatible Materials:

Hydrogen Fluoride

Hazardous decomposition:

No known hazardous decomposition products

Hazardous polymerisation:

Will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Health Effects: Acute**Inhalation:**

Inhalation may be harmful.

Swallowed:

Ingestion may be harmful.

Eye:

Dust may cause inflammation and irritation of the eyes especially pre-existing eye conditions.

Skin:

Repeated contact can cause irritation and dryness of skin which may result in skin rashes such as dermatitis.

Carcinogenicity:

Presumed to have carcinogenic potential for humans.

IARC: 1 – Group 1: Carcinogenic to Humans (Quartz, SiO₂)

Other Information:

Continued inhalation of sand dust containing crystalline silica may cause scarring of the lung (silicosis), lung cancer, and chronic bronchitis, and may increase the risk of scleroderma (thickening of the protective tissue) and kidney disease.

Crystalline Silica is classified as Group 1 “known to be carcinogenic to humans” by IARC and “sufficient evidence” of carcinogenicity by the NTP. The chronic health risks are associated with the respirable particles over extended periods of exposure.

SECTION 12 – 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.

Bio accumulative 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.

SECTION 13 – 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.

SECTION 14 – 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

Incompatible Materials: Hydrogen Fluoride

SECTION 15 – REGULATORY INFORMATION

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

SECTION 16 – OTHER INFORMATION

MSDS Issue Date: January 2021

Version: 2.01

Change Log:

V 1.01: Minor updates to phrasing and product names.

V 2: Updates to current guidelines

V 2.01: Updates to current guidelines

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 |

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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 SDS 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.