



Safety Data Sheet

prepared to UN GHS Revision 3

1. Identification of the Substance/Mixture and the Company/Undertaking

- | | | | | |
|-----|---|--|------------------|------------|
| 1.1 | Product Identifier | Sand | Revision Date: | 11/04/2019 |
| | Product Name: | Sand | Supersedes Date: | New SDS |
| 1.2 | Relevant identified uses of the substance or mixture and uses advised against | Manufactured Sand, Natural Sand, Quarry Dust, Landscaping, Gardening, Agricultural, Aggregate Use. | | |
| 1.3 | Details of the supplier of the safety data sheet | | | |
| | Importer: | Flowcrete Australia Pty Ltd Unit 2, 41 Deakin Street Brendale Queensland 4500 Australia Phone: +61 7 3205 7115 Fax: +61 7 3205 3116 australia@flowcrete.com www.flowcreteaustralia.com.au | | |
| 1.4 | Emergency telephone number: | CHEMTREC 1-800-424-9300 (Inside US) CHEMTREC +1 703 5273887 (Outside US) | | |

2. Hazard Identification

2.1 Classification of the substance or mixture

**HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA
NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA**

GHS classifications Specific Target Organ Systemic Toxicity (Repeated Exposure): Category 2

2.2 Label elements

Symbol(s) of Product



Signal Word

WARNING

HAZARD STATEMENTS

H373 May cause damage to organs through prolonged or repeated exposure.

PRECAUTION PHRASES

P260 Do not breathe dust, fume, gas, mist, vapours or spray.

RESPONSE PRECAUTION PHRASES

P314 Get medical advice/attention if you feel unwell.

STORAGE PRECAUTION PHRASES

None

DISPOSAL PRECAUTION PHRASES

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

POISON SCHEDULE

None

2.3 Other hazards
Not Applicable

3. Composition/Information On Ingredients

3.2 Mixtures

CHEMICAL ENTITY
Silica Sand (Including Crystalline Silica)

CAS NO
14808-60-7

PROPORTION
Up to 100 %

Notes:

1. This product may contain small amounts of mineral and organic materials.
2. Although rare, some Sand may contain trace amounts (<0.01%) of Respirable Elongated Mineral Particulates.

The levels detected are determined to be well below the threshold level.

Additional Information: The text for GHS Hazard Statements shown above (if any) is given in Section 16.

4. First-aid Measures

4.1 Description of First Aid Measures



Eye If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

Inhalation If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

Skin If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.

Ingestion For advice, contact a Poisons Information Centre (PIC) or a doctor (at once). Due to product form and application, ingestion is considered unlikely.

First aid facilities Eye wash facilities and safety shower are recommended.

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting Measures

5.1 Extinguishing Media:

Use an extinguishing agent suitable for the surrounding fire.

5.2 Special hazards arising from the substance or mixture:

Non flammable. Silica Sand is an extinguishing medium and fire retardant, used to put out small fires.

5.3 Advice for firefighters:

Treat as per requirements for surrounding fires. Evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

5.4 Hazchem code

None allocated.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in Section 8 of this SDS. Clear area of all unprotected personnel. Ventilate area where possible. Contact emergency services where appropriate.

6.2 Environmental precautions

Prevent product from entering drains and waterways.

- 6.3 Methods of cleaning up
Contain spillage, keep moist and place in suitable containers for disposal or reapplication. Within enclosed environments clean spill site using wet methods or an approved industrial vacuum device. Avoid generating dust.
- 6.4 Reference to other sections
See Sections 8 and 13 for exposure controls and disposal.

7. Handling and Storage

- 7.1 Precautions for safe handling
Before use carefully read the SDS. The use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating.
- 7.2 Conditions for safe storage, including any incompatibilities
All stockpiles and dumps should be inspected.
- 7.3 Specific end use(s)
Not applicable.

8. Exposure Controls/Personal Protection

8.1 Control parameters

National occupational exposure limits:

| | TWA | | STEL | | NOTICES |
|-----------------------------|-----|-------|------|-------|---------|
| | Ppm | mg/m3 | ppm | mg/m3 | |
| Quartz (Crystalline Silica) | -- | 0.1 | -- | -- | - |

As published by Safe Work Australia.

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

Biological limits

No biological limit values have been entered for this product.

8.2 Exposure controls

Engineering Controls Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain Quartz (Crystalline Silica) levels below the recommended exposure standard.

PPE

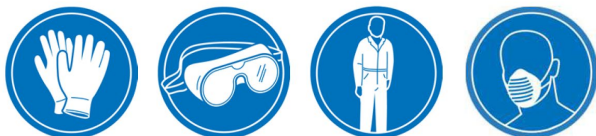
Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers.

Eye / Face Wear safety glasses or dust-proof goggles when handling material to avoid contact with eyes.

Hand Where hands are subject to "dry skin" or "skin tears", wear PVC, rubber or cotton gloves.

Body Wear long sleeved shirt and full-length trousers.

Respiratory Where an inhalation risk exists wear a Class P1 (Particulate) respirator, dependent on a site specific risk assessment.



9. Physical and Chemical Properties

- 9.1 Information on basic physical and chemical properties
Appearance GRANULAR SAND
Odour ODOURLESS
Flammability NON FLAMMABLE
Flash point NOT RELEVANT
Boiling point NOT RELEVANT
Melting point NOT AVAILABLE
Evaporation rate NOT AVAILABLE
pH NOT AVAILABLE
Vapour density NOT AVAILABLE
Specific gravity NOT AVAILABLE
Solubility (water) INSOLUBLE
Vapour pressure NOT AVAILABLE
Upper explosion limit NOT RELEVANT
Lower explosion limit NOT RELEVANT
Partition coefficient NOT AVAILABLE
Autoignition temperature NOT AVAILABLE
Decomposition temperature NOT AVAILABLE
Viscosity NOT AVAILABLE
Explosive properties NOT EXPLOSIVE
Oxidising properties NON OXIDISING
Odour threshold NOT AVAILABLE
- 9.2 Other information
Not applicable

10. Stability and Reactivity

- 10.1 Reactivity
Carefully review all information provided in sections 10.2 to 10.6.
- 10.2 Chemical stability
Stable under recommended conditions of storage.
- 10.3 Possibility of hazardous reactions
Polymerization will not occur.
- 10.4 Conditions to avoid
No known conditions to avoid.
- 10.5 Incompatible materials
Incompatible with strong acids (eg. hydrofluoric acid).
- 10.6 Hazardous decomposition products
This material is not expected to decompose to form hazardous products.

11. Toxicological Information

- 11.1 Information on toxicological effects
- Acute toxicity No known toxicity data is available for this product. Based on available data, the classification criteria are not met.
- Skin Contact may result in mechanical irritation, redness, rash and dermatitis.
- Eye Contact may result in mechanical irritation, lacrimation and redness.
- Sensitization This product is not known to be a skin or respiratory sensitiser.
- Mutagenicity Insufficient data available to classify as a mutagen.

Carcinogenicity This product contains crystalline silica which is classified as carcinogenic to humans (IARC Group 1).

Reproductive Insufficient data available to classify as a reproductive toxin.

STOT – single exposure

Not classified as causing organ effects from single exposure.

STOT – repeated exposure

Repeated exposure to respirable silica may result in pulmonary fibrosis (silicosis). Silicosis is a fibronodular lung disease caused deposition in the lungs of fine respirable particles of crystalline silica. Principal symptoms of silicosis are cough and breathlessness.

Aspiration This product is not expected to present an aspiration hazard.

12. Ecological Information

- 12.1 Toxicity
The main component/s of this product are not anticipated to cause any adverse effects to the environment.
- 12.2 Persistence and degradability
Product is persistent and non-degradable.
- 12.3 Bioaccumulative potential
This product is not expected to bioaccumulate.
- 12.4 Mobility in soil
A low mobility would be expected in a landfill situation.
- 12.6 Other adverse effects
Prevent contamination of drains or waterways.

13. Disposal Considerations

- 13.1 Waste treatment methods
Waste disposal Reuse or recycle where possible. Alternatively, ensure product is kept moist to prevent dust generation and dispose of within an approved landfill site. Contact the manufacturer for additional information.
- Legislation Dispose of in accordance with relevant local legislation.

14. Transport Information

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA LAND TRANSPORT SEA TRANSPORT AIR TRANSPORT

| | (ADG) | (IMDG / IMO) | (IATA / ICAO) |
|-----------------------------------|----------------|----------------|----------------|
| 14.1 UN number | None Allocated | None Allocated | None Allocated |
| 14.2 UN proper shipping name | None Allocated | None Allocated | None Allocated |
| 14.3 Transport hazard classes | | | |
| DG class / division | None Allocated | None Allocated | None Allocated |
| Subsidiary risk(s) | None Allocated | None Allocated | None Allocated |
| 14.4 Packing group | None Allocated | None Allocated | None Allocated |
| 14.5 Environmental hazards | None Allocated | | |
| 14.6 Special precautions for user | | | |
| Hazchem code | None Allocated | | |

15. Regulatory Information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

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

Classifications Xn; Harmful

Risk phrases R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Safety phrases S22: Do not breathe dust.

S45: In case of accident or if you feel unwell seek medical advice immediately.

Inventory listing(s) AUSTRALIA: AICS (Australian Inventory of Chemical Substances)

All components are listed on AICS, or exempt.

16. Other Information

Reason for issue: First issue

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.

Abbreviations:

ACGIH - American Conference of Industrial Hygienists.
ADG - Australian Dangerous Goods.
BEI - Biological Exposure Indices.
CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.
CNS - Central Nervous System.
EC No - European Community Number.
IARC - International Agency for Research on Cancer.
mg/m³ - Milligrams per Cubic Metre.
NOS - Not Otherwise Specified.
pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
ppm - Parts Per Million.
RTECS - Registry of Toxic Effects of Chemical Substances.
STEL - Short Term Exposure Limit.
STOT-RE - Specific target organ toxicity (repeated exposure)
STOT-SE - Specific target organ toxicity (single exposure)
SWA - Safe Work Australia.
TWA - Time Weighted Average.