

Safety Data Sheet

Silica Sand



Section 1: Identification of the Material and Supplier

Product Name: Silica Sand

Other Names: Quartz sand, Foundry sand, Packing sand, Concrete sand

Recommended Uses: Ingredient in glass making, making moulds for foundry casting, concrete and mortar, fibreglass manufacturing

Supplier: VRX Silica Limited

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Fax: (08) 9226 3764

Email: info@vrxsilica.com.au

Website: www.vrxsilica.com.au

Emergency: 000 Fire Brigade and Police (available in Australia only)

Poisons Information Centre: 13 11 26 (available in Australia only)

Section 2: Hazard Identification

STATEMENT OF HAZARDOUS NATURE: The product as supplied is classified as non-Hazardous according to the criteria of Safe Work Australia (SWA – formerly ASCC/NOHSC) Approved Criteria For Classifying Hazardous Substances [NOHSC:1008] 3rd Edition.

Dust in/on the supplied product, or created when the product is processed, abraded, or crushed, is **Hazardous**. Dust of silica sand contains crystalline silica, some of which may be respirable (particles small enough to go into the deep parts of the lung when breathed in). Recommendations on Exposure Controls / Personal Protection (see Section 8 below) should be followed.

Silica Sand is classified as **Non-Dangerous** Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

GHS CLASSIFICATION:

Not classified as Hazardous. Because this product is classified as Non-Hazardous as delivered, a Safety Data Sheet (SDS) is not required under the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) or Australian Regulations. VRX Silica has elected to issue this SDS for the information of users, installers and the community. It has been formatted according to the GHS, as adopted by Safe Work Australia.

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Section 3: Composition / Information on Ingredients

Chemical Name:	Synonyms:	Proportion:	CAS Number:
Silica	Sand, Quartz	>99.5%	14808-60-7
Mineral and organic materials		<0.5%	-----

Section 4: First-Aid Measures

Inhalation	If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop and/or persist seek medical attention.
Ingestion	Do not induce vomiting. Wash out mouth thoroughly with water. Seek medical attention.
Skin	Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.
Eye contact	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. If symptoms develop and/or persist seek medical attention.
First Aid Facilities	Eyewash and normal washroom facilities.
Advice to Doctor	Treat symptomatically.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media	Use appropriate fire extinguisher for surrounding environment.
Hazards from Combustion Products	Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide and oxides of nitrogen.
Specific Hazards Arising From The Chemical	The product is not combustible, however the packaging may burn under fire conditions. At 825°C calcium carbonate (calcite) decomposes and gives off carbon dioxide and corrosive fumes of calcium oxide.
Decomposition Temperature	Not available
Precautions in connection with Fire	Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

Section 6: Accidental Release Measures

Emergency Procedures	<p>Increase ventilation. Evacuate all unprotected personnel. Wear sufficient respiratory protection and full protective clothing to prevent exposure. Sweep up material avoiding dust generation or dampen spilled material with water to avoid airborne dust, then transfer material to a suitable container. Wash surfaces well with soap and water. Seal all wastes in labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations.</p> <p>If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.</p>
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Section 7: Handling and Storage

Precautions for Safe Handling	Avoid inhalation of dust, and skin or eye contact. Use only in a well-ventilated area. Keep containers sealed when not in use. Prevent the build-up of dust in the work atmosphere. Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities.
Conditions for safe storage, including any incompatibilities	Store in a cool, dry, well-ventilated area, out of direct sunlight and moisture. Store in suitable, labelled containers. Keep containers tightly closed. Store away from incompatible materials. Ensure that storage conditions comply with applicable local and national regulations.

Section 8: Exposure Controls/Personal Protection

Occupational exposure limit values	<p>Quartz - TWA: 0.1 mg/m³</p> <p>TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.</p>
Biological Limit Values	No biological limits allocated.
Appropriate Engineering Controls	Use with good general ventilation. If dusts are produced, local exhaust ventilation should be used.
Respiratory Protection	<p>If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable dust/particulate filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements.</p> <p>Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.</p>
Eye Protection	<p>Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations.</p> <p>Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.</p>

Hand Protection	Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances. i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations. Reference should be made to AS/NZS 2161. 1: Occupational protective gloves - Selection, use and maintenance.
Body Protection	Suitable protective workwear should be worn when working with this material, e. g. cotton overalls buttoned at neck and wrist.
Other Information	No exposure standards have been established for this material, however, the TWA exposure standards for dust not otherwise specified is 10 mg/m ³ . As with all chemicals, exposure should be kept to the lowest possible levels. TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight- hour working day, for a five-day week. Source: Safe Work Australia

Section 9: Physical and Chemical Properties

Form	Solid
Appearance	white to yellow grains <1mm
Colour	White to yellow
Odour	Not applicable
Decomposition Temperature	Not applicable
Melting Point	Not applicable
Boiling Point	Not applicable
Solubility in Water	Insoluble
Specific Gravity	2.65
pH	Not applicable
Vapour Pressure	Not applicable
Vapour Density (Air=1)	Not applicable
Evaporation Rate	Not applicable
Odour Threshold	Not applicable
Viscosity	Not applicable
Partition Coefficient: n- octanol/water	Not applicable
Flash Point	Not applicable
Flammability	Non- combustible
Auto- Ignition Temperature	Not applicable
Explosion Limit - Upper	Not applicable
Explosion Limit - Lower	Not applicable

Section 10: Physical and Chemical Properties

Chemical Stability	Stable under normal conditions of storage and handling. At 825°C calcium carbonate (calcite) decomposes and emits carbon dioxide and corrosive fumes of calcium oxide.
Reactivity and Stability	Reacts with incompatible materials
Conditions to Avoid	Extremes of temperature and direct sunlight. Dust accumulation.
Incompatible materials	Strong oxidising agents, strong acids, ammonium salts and fluorine.
Hazardous Decomposition Products	Thermal decomposition may result in the release of toxic and/or irritating fumes.
Possibility of hazardous reactions	Not available
Hazardous Polymerization	Will not occur.

Section 11: Toxicological Information

Toxicology Information	No toxicity data available for this material.
Ingestion	Ingestion of this product may irritate the gastric tract causing nausea and vomiting.
Inhalation	Inhalation of dusts may irritate the respiratory system. Chronic exposure to this material may aggravate existing respiratory disorders and lung disorders such as bronchitis, emphysema and asthma. Onset and progression are related to dust concentrations and duration of exposure.
Skin	Skin contact may cause mechanical irritation resulting in redness and itching.
Eye	Eye contact may cause mechanical irritation. May result in mild abrasion.
Respiratory sensitisation	Not expected to be a respiratory sensitiser.
Skin Sensitisation	Not expected to be a skin sensitiser.
Germ cell mutagenicity	Not considered to be a mutagenic hazard.
Carcinogenicity	Not considered to be a carcinogenic hazard. Quartz is listed as a Group 1: Carcinogenic to humans according to International Agency for Research on Cancer (IARC).
Reproductive Toxicity	Not considered to be toxic to reproduction.
STOT- single exposure	Not expected to cause toxicity to a specific target organ.
STOT- repeated exposure	Not expected to cause toxicity to a specific target organ.
Aspiration Hazard	Not expected to be an aspiration hazard.

Section 12: Ecological Information

Ecotoxicity	No ecological data available for this material.
Persistence and degradability	Not available
Mobility	Not available
Bioaccumulative Potential	Not available
Other Adverse Effects	Not available
Environmental Protection	Prevent this material entering waterways, drains and sewers.

Section 13: Disposal Considerations

Disposal considerations

The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

Section 14: Transport Information

Transport Information	Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition) Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air. Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.
U. N. Number	25162000
UN proper shipping name	Silica Sand sample
Transport hazard class(es)	None Allocated
Special Precautions for User	Not available
IMDG Marine pollutant	No
Transport in Bulk	Not available

Section 15: Regulatory Information

Regulatory information

Not classified as Hazardous according to the Globally Harmonised System of classification and labelling of chemicals (GHS) including Work, Health and Safety regulations, Australia.

Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Poisons Schedule

Not Scheduled

Section 16: Other Information

Date of preparation or last revision of SDS

SDS created: March 2024

References

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.

Standard for the Uniform Scheduling of Medicines and Poisons.

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Workplace exposure standards for airborne contaminants.

Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).

Globally Harmonised System of classification and labelling of chemicals.

Contact Person/Point

Emergency Advice: Chemical Safety International ERS - 1800 638 556 (24 Hours)

PLEASE NOTE:

The information contained herein is based on data available to VRX Silica from both our own technical sources and from recognised published references and is believed to be both accurate and reliable. VRX Silica Limited has made no effort to censor nor to conceal deleterious aspects of this product. Since we cannot anticipate or control the many different conditions under which this information and our products may be used, each user should review these recommendations in the specific context of the intended application and confirm whether they are appropriate. It is therefore recommended that you undertake your own risk assessment in relation to your method of handling and proposed use of this product. VRX Silica Limited accepts no liability whatsoever for damage or injury caused from the use of this information or of suggestions contained herein.

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