

## Safety Data Sheet **SILICA**

SDS no. RQJ9WCV4 • Version 1.0 • Date of issue: 2024-10-10

### SECTION 1: Identification

#### GHS Product identifier

Product name SILICA

#### Other means of identification

Product Product Code

Silica 200 mesh	SL286
Silica Powder 200 mesh	ST093
Silica 300 mesh	ST221
Silica 350 mesh	ST258
Silica 400 mesh	ST295
Silica Flour Ceramic Grade	SILCER1
Silica Flour Ceramic Grade	SILCER3

#### Recommended use of the chemical and restrictions on use

Manufacture of glass, water glass, ceramics, abrasives, water filtration, microspheres, component of concrete, source of ferrosilicon and elemental silicon, filler in cosmetics, pharmaceuticals, paper, insecticides, hydrated and precipitated grades as rubber reinforcing agent, including silicone rubber, anti-caking agent in foods, flattening agents in paints, thermal insulator and laboratory reagent.

#### Supplier's details

Name ChemSupply Australia Pty Ltd  
Address 38-50 Bedford Street  
5013 Gillman South Australia  
Australia

Telephone 08 8440 2000  
email [www.chemsupply.com.au](http://www.chemsupply.com.au)

#### Emergency phone number

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

### SECTION 2: Hazard identification

#### General hazard statement

Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

#### Classification of the substance or mixture

#### GHS classification in accordance with: UN GHS revision 7

- Carcinogenicity, Cat. 1A

# Safety Data Sheet

## SILICA

SDS no. RQJ9WCV4 • Version 1.0 • Date of issue: 2024-10-10

- Specific target organ toxicity following repeated exposure, Cat. 1

### GHS label elements, including precautionary statements

#### Pictograms



#### Signal word

**Danger**

#### Hazard statement(s)

H350  
H372

May cause cancer [inhalation]  
Causes damage to organs [respiratory] through prolonged or repeated exposure [inhalation]

#### Precautionary statement(s)

P201  
P202  
P260  
P264  
P270  
P280  
P308+P313  
P314  
P405  
P501

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Do not breathe dust/fume/gas/mist/vapors/spray.  
Wash hands thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF exposed or concerned: Get medical advice/attention.  
Get medical advice/attention if you feel unwell.  
Store locked up.  
Dispose of contents/container to an approved waste disposal facility

## SECTION 3: Composition/information on ingredients

### Mixtures

This product may contain > 20% respirable crystalline silica.

Component	Identification	Weight %
Silica, crystalline	CAS no.: 14808-60-7 EC no.: 238-878-4	<= 100 %

## SECTION 4: First-aid measures

### Description of necessary first-aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.  
Move out of dangerous area.

First Aid Facilities: Maintain eyewash fountain in work area.

If inhaled

If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

In case of skin contact

Rinse with plenty of water. Get medical attention if irritation develops and persists.

# Safety Data Sheet

## SILICA

SDS no. RQJ9WCV4 • Version 1.0 • Date of issue: 2024-10-10

In case of eye contact

If contact with the eye(s) occurs, wash with copious amounts of water for approximately 15 minutes holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If persistent irritation occurs, obtain medical attention.

If swallowed

Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.

### Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

### Indication of immediate medical attention and special treatment needed, if necessary

For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

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## SECTION 5: Fire-fighting measures

### Suitable extinguishing media

Use fire extinguishing media appropriate for surrounding environment. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

### Specific hazards arising from the chemical

Specific hazards arising from the chemical: May burn but do not ignite readily. Runoff may pollute waterways. Fire may produce irritating, poisonous and/or corrosive gases.

### Special protective actions for fire-fighters

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

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## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.

### Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Do not flush with water. Keep in suitable, closed containers for disposal.

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## SECTION 7: Handling and storage

### Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

### Conditions for safe storage, including any incompatibilities

Keep dry. Store under cover.

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## SECTION 8: Exposure controls/personal protection

### Control parameters

#### CAS: 14808-60-7

Silica, crystalline

AU/SWA (Australia): 0.05 mg/m<sup>3</sup> TWA inhalation [Quartz (respirable dust)]

### Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

# Safety Data Sheet

## SILICA

SDS no. RQJ9WCV4 • Version 1.0 • Date of issue: 2024-10-10

### Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

#### Skin protection

Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

#### Body protection

Footwear: Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

Body Protection: Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

#### Respiratory protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/ mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. 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.

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## SECTION 9: Physical and chemical properties

### Basic physical and chemical properties

Physical state	Solid
Appearance	White powder.
Color	No data available.
Odor	Odourless.
Odor threshold	No data available.
Melting point/freezing point	1700 °C
Boiling point or initial boiling point and boiling range	No data available.
Flammability	Non combustible.
Lower and upper explosion limit/ flammability limit	No data available.
Flash point	No data available.
Explosive properties	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	>2000
Oxidizing properties	No data available.
pH	3.5 - 4.5 (40 g/l)

# Safety Data Sheet

## SILICA

SDS no. RQJ9WCV4 • Version 1.0 • Date of issue: 2024-10-10

Kinematic viscosity	No data available.
Solubility	Solubility in Water: Immiscible
Partition coefficient n-octanol/ water (log value)	No data available.
Vapor pressure	No data available.
Evaporation rate	No data available.
Density and/or relative density	Specific Gravity: ca. 2.2 g/cm <sup>3</sup>
Relative vapor density	No data available.
Particle characteristics	No data available.

### Supplemental information regarding physical hazard classes

No data available.

### Further safety characteristics (supplemental)

No data available.

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## SECTION 10: Stability and reactivity

### Reactivity

Stable under normal conditions of storage and handling.

### Chemical stability

Stable.

### Possibility of hazardous reactions

Reacts with hydrofluoric acid producing silicon tetrafluoride gas.  
Reacts with xenon hexafluoride producing explosive xenon trioxide.  
Heating with alkali carbonates can produce a vigorous reaction.

### Conditions to avoid

None under normal use conditions.

### Incompatible materials

Hydrofluoric acid, Xenon hexafluoride.

### Hazardous decomposition products

Other decomposition products - No data available In the event of fire: see section 5

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

Acute Toxicity - Oral: Rat LD50; >10000 mg/kg

Acute Toxicity - Inhalation: Rat LC50; 0.139 mg/L/4h

Ingestion: This material is a physical irritant to the gastro-intestinal tract. May cause nausea and vomiting.  
May be harmful to persons with pre-existing organ damage.

#### Skin corrosion/irritation

# Safety Data Sheet

## SILICA

SDS no. RQJ9WCV4 • Version 1.0 • Date of issue: 2024-10-10

Acute Toxicity - Dermal: Rabbit LD50; >5000 mg/kg

Entry into the blood stream may produce systemic injury with harmful effects. It is not thought to produce adverse health effects.

### Serious eye damage/irritation

May cause irritation.

### Respiratory or skin sensitization

Not classified based on available information.

### Germ cell mutagenicity

Based on available data, classification data are not met

### Carcinogenicity

Crystalline silica is classified as carcinogenic to humans (IARC Group 1)

### Reproductive toxicity

Based on available data, classification data are not met

### Specific target organ toxicity (STOT) - single exposure

Based on available data, classification data are not met

### Specific target organ toxicity (STOT) - repeated exposure

Causes damage to organs through prolonged or repeated exposure

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

### Aspiration hazard

Based on available data, classification data are not met

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## SECTION 12: Ecological information

### Toxicity

Non toxic to environmental organisms. Presenting a low risk for adverse effects on the environment.

### Persistence and degradability

Water/Soil: HIGH

Air: No data available

### Bioaccumulative potential

LOW

### Mobility in soil

HIGH

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## SECTION 13: Disposal considerations

### Disposal methods

### Product disposal

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

### Other disposal recommendations

Do not discharge this material into waterways, drains and sewers.

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## SECTION 14: Transport information

# Safety Data Sheet

## SILICA

SDS no. RQJ9WCV4 • Version 1.0 • Date of issue: 2024-10-10

### ADG (Road and Rail)

Not dangerous goods

### IMDG

Not dangerous goods

### IATA

Not dangerous goods

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## SECTION 15: Regulatory information

### Safety, health and environmental regulations specific for the product in question

#### Australia SUSMP

Poison Schedule: NS

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## SECTION 16: Other information

### Further information/disclaimer

ChemSupply Australia Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon ChemSupply Australia Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of ChemSupply Australia Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

### Preparation information

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Standard for the Uniform Scheduling of Medicines and Poisons, Commonwealth of Australia

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'

Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020.

Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.

Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants, December 2019

Safe Work Australia, Hazardous Chemical Information System (HCIS), [hcis.safeworkaustralia.gov.au](http://hcis.safeworkaustralia.gov.au)

IATA, Dangerous Goods Regulations (DGR)

IMO, International Maritime Dangerous Goods Code (IMDG)