



Infosafe No™	3CHB6	Issue Date : October 2019	RE-ISSUED by CHEMSUPP
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Product Name : **SILICA**

Not classified as hazardous

1. Identification

GHS Product Identifier	SILICA		
Company Name	CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)		
Address	38 - 50 Bedford Street GILLMAN SA 5013 Australia		
Telephone/Fax Number	Tel: (08) 8440-2000 Fax: (08) 8440-2001		
Emergency phone number	CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)		
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.		
Other Names	<u>Name</u>	<u>Product Code</u>	
	SILICA Powder Hydrophilic Fumed Silicon dioxide, Amorphous silicon dioxide, Silicic anhydride	SA343	

Other Information

Chem-Supply 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 Chem-Supply 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 Chem-Supply 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.

2. Hazard Identification

GHS classification of the substance/mixture	Not classified as hazardous according to the criteria of Hazardous Substances Information System (HSIS), Safe Work Australia. Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).
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3. Composition/information on ingredients

Chemical Characterization	Solid				
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u>	<u>Risk Phrase</u>
	Silica amorphous	7631-86-9	60-100 %		

4. First-aid measures

Inhalation	Remove victim from exposure - avoid becoming a casualty. Blow nose to remove as much dust as possible. If symptoms persist, obtain medical attention.
Ingestion	If accidentally swallowed, rinse mouth thoroughly with water and afterwards, drink plenty of water. In case of discomfort, obtain medical attention.
Skin	Wash with plenty of soap and water. If irritation occurs seek medical advice.
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. If persistent irritation occurs, obtain medical attention.
First Aid Facilities	Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. Maintain eyewash fountain and safety shower in work area.
Advice to Doctor	Treat symptomatically.
Other Information	For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures

Specific Methods	Use extinguishing media most appropriate for the surrounding fire. No limitations to the type of extinguishing media.
Decomposition Temp.	>2000



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6. Accidental release measures

Personal Precautions Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

Personal Protection Wear protective clothing specified for normal operations (see Section 8)

Clean-up Methods - Small Spillages Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.

7. Handling and storage

Precautions for Safe Handling Avoid generation or accumulation of dusts. Wear suitable protective clothing. Keep container tightly closed when not in use. Ensure a high level of personal hygiene is maintained when using this product. That is; always wash hands before eating, drinking, smoking or using the toilet. When using do not eat or drink. Contaminated clothing should be removed and washed before reuse.

Conditions for safe storage, including any incompatibilities Keep product dry to prevent lumping or possible deterioration. Keep container tightly closed and in a cool, well-ventilated place. Keep dry. Store under cover.

8. Exposure controls/personal protection

Occupational exposure limit values	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Silica amorphous			2		
Other Exposure Information	The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.					
Appropriate engineering controls	In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. These methods should be used in preference to personal protective equipment.					
Respiratory Protection	An approved respirator must be worn if the occupational exposure limit is likely to be exceeded. If significant mists, vapours or aerosols are generated an approved respirator is recommended, selected and used in accordance with AS/NZS 1715 and AS/NZS 1716. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.					
Eye 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.					
Hand Protection	Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.					
Personal Protective Equipment	Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.					
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	Wear suitable protective clothing and gloves to prevent skin contact. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.					
Hygiene Measures	Do not eat, drink or smoke in work areas. Wash hands thoroughly after handling this material. Maintain good housekeeping.					

9. Physical and chemical properties

Form Solid

Appearance White powder.

Odour Odourless.

Decomposition Temperature >2000



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Melting Point	1700 °C
Solubility in Water	Immiscible
Specific Gravity	ca. 2.2 g/cm ³
pH	3.5 - 4.5 (40 g/l)
Flammability	Non combustible.

10. Stability and reactivity

Chemical Stability	Stable.
Incompatible Materials	Hydrofluoric acid, Xenon hexafluoride.
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.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Acute Toxicity - Oral	Rat LD50; >10000 mg/kg
Acute Toxicity - Dermal	Rabbit LD50; >5000 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.
Inhalation	This material is not thought any adverse health effects or irritation of the respiratory tract.
Skin	Entry into the blood stream may produce systemic injury with harmful effects. It is not thought to produce adverse health effects.
Eye	Product may cause slight to moderate irritation to the eyes.
Carcinogenicity	International Agency for Research on Cancer (IARC) has classified silica, amorphous as Group 3: NOT classifiable as to its carcinogenicity to humans.

12. Ecological information

Ecological Information	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
Mobility	HIGH
Bioaccumulative Potential	LOW
Other Precautions	Avoid contaminating waterways.

13. Disposal considerations

Disposal Considerations	Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.
Waste Disposal	Bury in a landfill site approved for the disposal of chemical and hazardous wastes.

14. Transport information

Transport Information	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
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15. Regulatory information

Regulatory Information	Listed in the Australian Inventory of Chemical Substances (AICS). Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
Poisons Schedule	Not Scheduled

16. Other Information



chem-supply

Safety Data Sheet

infosafe
CS: 1.7.2

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**Literature
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 Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010.
 Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'.
 Safe Work Australia, 'Hazardous Chemical Information System, 2005'.
 Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'.
 Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'.

**Contact
Person/Point**

Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**
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**Empirical Formula &
Structural Formula**

SiO2
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