



Infosafe No™	1CH5Y	Issue Date : July 2019	RE-ISSUED by CHEMSUPP
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Product Name : **SILICA GEL**

Classified as hazardous

1. Identification

GHS Product Identifier SILICA GEL

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 Dehumidifying and dehydrating agent, airconditioning, drying of compressed air and gases, catalyst, chromatography, anti-caking agent in cosmetics and pharmaceuticals, analytical and laboratory reagent.

Other Names

<u>Name</u>	<u>Product Code</u>
SILICA GEL, Blue, Self- indicating, 3-8mm	ST604
SILICA GEL Self Indicating 2.0-5.0mm (4-10 Mesh) TG	ST043
SILICA GEL Self Indicating 3-8 mm TG	ST248
SILICA GEL Self Indicating 2-5mm (4-10 Mesh) LR	SL043
Silicon dioxide	
SILICA GEL Self Indicating 3-8 mm LR	SL248
Precipitated silica	
SILICA GEL Sachets 6000x2G	ST148-6000x2G

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 Carcinogenicity: Category 1B
Toxic to Reproduction: Category 1B

Signal Word (s) DANGER

Hazard Statement (s) H350 May cause cancer by inhalation.
H360 May damage fertility.

Pictogram (s) Health hazard



Precautionary statement – Prevention P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P281 Use personal protective equipment as required.

Precautionary statement – Response P308+P313 IF exposed or concerned: Get medical advice/attention.

Precautionary statement – Storage P405 Store locked up.

Precautionary statement – Disposal P501 Dispose of contents/container to an approved waste disposal plant.



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3. Composition/information on ingredients

Chemical	Solid			
Characterization				
Information on Composition	Contains traces of heavy metals.			
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u> <u>Risk Phrase</u>
	Silicon dioxide	63231-67-4	99 %	
	Cobalt (II) chloride anhydrous	7646-79-9	0.5-1 %	

4. First-aid measures

Inhalation	If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Immediately obtain medical aid if cough or other symptoms appear.
Ingestion	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.
Skin	Wash with plenty of soap and water. Remove contaminated clothing and wash before re-use. If irritation occurs seek medical advice.
Eye contact	Irrigate with copious quantity of water for 15 minutes. Seek medical assistance if symptoms persist.
First Aid Facilities	Maintain eyewash fountain and safety shower in work area.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of the patient.
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	No limitations to the type of extinguishing media. Use measures suitable for extinguishing surrounding fire.
Specific hazards arising from the chemical	Material does not burn. Fire or heat may produce irritating, poisonous and/or corrosive gases. Containers may explode when heated. Runoff may pollute waterways.
Precautions in connection with Fire	Wear SCBA and structural firefighter's uniform.

6. Accidental release measures

Spills & Disposal	Do NOT touch or walk through this product. Stop leak if safe to do so. Prevent entry into waterways, drains, confined areas. Prevent dust cloud. Use clean non-sparking tools to collect material and place it into loosely-covered plastic containers for later disposal.
Personal Precautions	Avoid standing on spilled product as loose beads cause a slip hazard.
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.
Environmental Precautions	Prevent from spreading or entering into drains, ditches or rivers by using sand, earth, or other appropriate barriers.

7. Handling and storage

Precautions for Safe Handling	Avoid generation or accumulation of dusts. Wash hands and face thoroughly after working with material. Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure. Use in well ventilated areas away from all ignition sources. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid generating and inhaling dust.
Conditions for safe storage, including any incompatibilities	Store in a cool, dry place. Keep containers securely sealed and protected against physical damage. Keep in a well-ventilated place. Keep container dry.

8. Exposure controls/personal protection



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Occupational exposure limit values	Name	STEL		TWA		Footnote
		<u>mg/m3</u>	<u>ppm</u>	<u>mg/m3</u>	<u>ppm</u>	
	Silicon dioxide			10		
Other Exposure Information	<p>These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.</p> <p>A time weighted average (TWA) has been established for Silica gel (Safe Work Australia) of 10 mg/m³. A time weighted average (TWA) has been established for cobalt, metal dust & fume (as Co) (Safe Work Australia) of 0.05 mg/m³.</p> <p>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.</p>					
Appropriate engineering controls	<p>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.</p>					
Respiratory Protection	<p>Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. 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.</p>					
Eye Protection	<p>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.</p>					
Hand Protection	<p>Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.</p> <p>Recommendation: Rubber or plastic gloves.</p>					
Personal Protective Equipment	<p>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.</p>					
Footwear	<p>Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.</p>					
Body Protection	<p>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.</p>					
Hygiene Measures	<p>Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.</p>					

9. Physical and chemical properties

Form	Solid
Appearance	White or blue (self-indicating) granules or powder.
Odour	Odourless.
Solubility in Water	Insoluble.
Solubility in Organic Solvents	Insoluble in ethanol and acids except hydrofluoric acid.
Flammability	Non combustible material.
Molecular Weight	60.09

10. Stability and reactivity

Chemical Stability	Stable under normal use conditons.
Conditions to Avoid	Exposure to moisture. Heat, flames, ignition sources and incompatibles.
Incompatible Materials	Halogen oxides, hydrogen fluoride, fluorine, oxygen trifluoride, chlorine trifluoride, oxidizers, light metals/heat, sodium/heat, xenon hexafluoride, strong acids and strong bases.
Hazardous Decomposition Products	Oxides of carbon and silicon may be formed when heated to decomposition.



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Hazardous Polymerization	Will not occur.
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11. Toxicological Information

Ingestion	May be harmful if swallowed in large amounts. No adverse effects are expected for normal exposure.
Inhalation	May be harmful if inhaled. May cause dryness and irritation to mucous membranes, nose, and throat. Symptoms may include coughing, sore throat, and wheezing. May cause sensitization by inhalation.
Skin	May be harmful if absorbed through the skin. May cause irritation with dryness and abrasion. Sensitization is possible.
Eye	May cause discomfort, mild irritation, redness and pain.
Carcinogenicity	Cobalt (II) chloride is evaluated in the IARC Monographs as Group 2B: Possibly carcinogenic to humans. Cobalt (II) chloride has been revealed to be a confirmed animal carcinogen at relatively high doses. A European Commission Directive (98/98/EC) reclassified cobalt chloride as a potential carcinogen by inhalation. The International Agency for Research on Cancer (IARC) indicates there is limited evidence for carcinogenicity of cobalt (II) chloride in experimental animals, and has assigned cobalt and cobalt compounds as possibly carcinogenic to humans (group 2B). Cobalt dichloride - Category 1B (Safe Work Australia) Cobalt dichloride - Category 1B (Safe Work Australia)
Reproductive Toxicity	
Chronic Effects	Repeated exposure may cause symptoms similar to those listed for acute effects. Synthetic amorphous silica does not produce silicosis. Symptoms of an acute cobalt intoxication may include of diarrhoea, loss of appetite, drop in body temperatures, drop in blood pressure.
Mutagenicity	No evidence of mutagenic effects.

12. Ecological information

Ecotoxicity	No ecological data available for this product.
Environmental Protection	Avoid contaminating waterways. Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment.

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.
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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

Literature References	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007. Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011. 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]'.
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Safety Data Sheet

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Contact

Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**

Person/Point

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Empirical Formula & Structural Formula

SiO₂

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