Infosafe No™	1CHTO	Issue Date : July 2019	RE-ISSUED by CHEMSUPP

Product Name : **SILICA GEL Orange**

Not classified as hazardous

1. Identification

GHS Product Identifier	SILICA GEL Orange
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

Name	Product Code
SILICA GEL Orange Self Indicating (3-8 Mesh) LR	SL421
SILICA GEL Orange Self Indicating (3-8 Mesh) TG	ST421
Silica gel with humidity indicator (orange)	
Iron compound impregnated silica gel	

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 Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004] 3rd Edition, Safe Work Australia. Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

3. Composition/information on ingredients

Chemical Characterization Solid

Ingredients

Name	CAS	Proportion	Hazard Symbol	Risk Phrase
Synthetic amorphous silica	112926-00-8	93-100 %		
Iron compounds		0-5 %		
Water	7732-18-5	0-5 %		

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 affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. Seek medical advice if effects persist.
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. If rapid recovery does not occur, obtain medical attention
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

Not classified as hazardous

Hazards from Combustion Products	May librate toxic fumes in fire.
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.
Decomposition Temp.	>823 °C
Precautions in connection with Fire	Use suitable protective equipment for surrounding fire.

6. Accidental release measures

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. Avoid prolonged or repeated contact with skin and eyes . Avoid ingestion and inhalation of material. Wash hands and face thoroughly after working with material.
Conditions for safe storage, including any incompatabilities	Store in a cool,dry place. Keep containers securely sealed and protected against physical damage. Keep container dry

8. Exposure controls/personal protection

Other Exposure Information	A time weighted average (TWA) has been established for Silica gel (Safe Work Australia) of 10 mg/m³. 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.
Respiratory Protection	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.
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	Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance. Recommendation: Rubber of plastic gloves.
Personal Protective Equipment	Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.
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.
Hygiene Measures	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9. Physical and chemical properties

Form	Solid
Appearance	Orange granules that turn green colour upon exposure to moisture.
Colour	Colour changes from orange to dark blue green as the gel adsorbs moisture.
Odour	Odourless.

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Decomposition Temperature	>823 °C
Melting Point	> 1000 °C
Solubility in Water	Insoluble.
Solubility in Organic Solvents	Soluble in chloroform.
pH	2-10 (5% ww in water)
Flammability	Non combustible material.
Other Information	Avoid temperatures in excess of 150 °C.

10. Stability and reactivity

Chemical Stability	Stable under normal use conditons. Hygroscopic. Sensitive to strong heating.
Conditions to Avoid	Exposure to moisture. Exposure to air. Light, heat, incompatibles.
Incompatible Materials	Strong heating, strong oxidizing agents.
Hazardous Decomposition Products	Oxides of carbon.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Ingestion	May be harmful if swallowed. Ingestion may irritate gastrointestinal tract and the mucous membranes. Symptoms may include nausea and vomiting.
Inhalation	May be harmful if inhaled. May cause irritation to the respiratory system and mucous membranes.
Skin	May be harmful if absorbed through the skin. May cause skin irritation and has a drying effect on skin.
Eye	May be harmful if contact the eyes. May cause discomfort and mild irritation. A drying effect on the eyes may also occur causing a stinging effect, irritation and pain.
Carcinogenicity	No evidence of carcinogenic properties.
Mutagenicity	No evidence of mutagenic properties.
Other Information	The lethal dose for humans for synthetic amorphous silica is estimated at over 15000 mg/kg.

12. Ecological information

Ecotoxicity	No ecological data available for this product.

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.

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.

15. Regulatory information

Regulatory Information	Listed in the Australian Inventory of Chemical Substances (AICS).
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 fot 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]'.

Contact Person/Point

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

SiO_2

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