

# SAFETY DATA SHEET

## SILICA GEL ORANGE SELF INDICATING (3-8 MESH) LR

Infosafe No.: 1CHTO  
ISSUED Date : 07/07/2024  
ISSUED by: CHEMSUPPLY AUSTRALIA PTY  
LTD

### Section 1 - Identification

**Product Identifier**

SILICA GEL ORANGE SELF INDICATING (3-8 MESH) LR

**Product Code**

SL421

**Company Name**

CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 008 264 211)

**Address**

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**Emergency Phone Number**

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**E-mail Address**

www.chemsupply.com.au

**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) TG	ST421
SILICA GEL WITH HUMIDITY INDICATOR (ORANGE)	
IRON COMPOUND IMPREGNATED SILICA GEL	
SILICA GEL ORANGE	
SDS NO. QXEYG42P	

**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.

## Section 2 - Hazard(s) Identification

### GHS classification of the substance/mixture

GHS classification in accordance with: UN GHS revision 7

Not a hazardous substance or mixture.

### Hazard Statement (s)

Not Applicable

### Precautionary Statement--Prevention

Not Applicable

### Precautionary Statement--Response

Not Applicable

### Precautionary Statement--Storage

Not Applicable

### Precautionary Statement--Disposal

Not Applicable

### Precautionary Statement--General

Not Applicable

### Other Information

GHS label elements, including precautionary statements:

Not a hazardous substance or mixture.

Other hazards which do not result in classification:

Not a hazardous substance or mixture.

## Section 3 - Composition and Information on Ingredients

### Ingredients

Name	CAS	Proportion
Water	7732-18-5	5 %weight
Iron compounds		5 %weight
Silica gel, Type GF, 10-40 µm	112926-00-8	93-100 %weight

### Other Information

Mixtures

Components

Component:

Silica gel, Type GF, 10-40 µm (EC no.: 215-683-2)

CLASSIFICATIONS: No data available. HAZARDS: No data available.

Water (EC no.: 231-791-2)

CLASSIFICATIONS: No data available. HAZARDS: No data available.

Iron Compounds

CLASSIFICATIONS: No data available. HAZARDS: No data available.

## Section 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.

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### 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

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 in work area.

### 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.

### Most important symptoms/effects, acute, delayed and aggravated medical conditions

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

## Section 5 - Firefighting Measures

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### Suitable Extinguishing Media

Use measures suitable for extinguishing surrounding fire.

### Hazards from Combustion Products

May liberate toxic fumes in fire.

### Specific hazards arising from the chemical

Material does not burn.

### Decomposition Temperature

>823 °C

### Precautions in connection with Fire

Use suitable protective equipment for surrounding fire.

## Section 6 - Accidental Release Measures

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### Methods and materials for containment and cleaning up

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

### Personal Precautions

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

## Section 7 - Handling and Storage

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### 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 incompatibilities

Store in a cool, dry place. Keep containers securely sealed and protected against physical damage. Keep container dry.

## Section 8 - Exposure Controls and Personal Protection

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### Occupational exposure limit values

Control parameters

CAS: 112926-00-8

Silica gel, Type GF, 10-40 µm

AU/SWA (Australia): 10 mg/m<sup>3</sup> TWA inhalation

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### 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 and 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.

### Hand Protection

Ensure hand protection complies with AS 2161, Occupational protective gloves - Selection, use and maintenance.

### Body Protection

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

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.

## Section 9 - Physical and Chemical Properties

Properties	Description	Properties	Description
Form	Solid - Granules	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.
Melting/Freezing Point	> 1000 °C	Boiling Point	No data available.
Decomposition Temperature	>823 °C	Solubility in Water	Insoluble.
Solubility in Organic Solvents	Soluble in chloroform.	pH	2-10 (5% ww in water)
Vapour Pressure	No data available.	Relative Vapour Density (Air=1)	No data available.
Evaporation Rate	No data available.	Odour Threshold	No data available.
Partition Coefficient: n-octanol/water (log value)	No data available.	Density	No data available.
Flash Point	No data available.	Flammability	No data available.
Auto-Ignition Temperature	No data available.	Flammable Limits - Lower	No data available.
Flammable Limits - Upper	No data available.	Explosion Limit - Upper	No data available.
Explosion Limit - Lower	No data available.	Explosion Properties	No data available.
Oxidising Properties	No data available.	Initial boiling point and boiling range	No data available.
Kinematic Viscosity	No data available.	Relative Density	No data available.
Particle Characteristics	No data available.		

### Other Information

Supplemental information regarding physical hazard classes:

No data available.

Further safety characteristics (supplemental)

Other Information: Avoid temperatures in excess of 150 °C.

## Section 10 - Stability and Reactivity

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### Reactivity

Stable under normal conditions of storage and handling.

### Chemical Stability

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.

## Section 11 - Toxicological Information

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### Toxicology Information

Summary of evaluation of the CMR properties:

No data available.

### Acute Toxicity - Oral

May be harmful if swallowed. Ingestion may irritate gastrointestinal tract and the mucous membranes. Symptoms may include nausea and vomiting.

### Acute Toxicity - Inhalation

May be harmful if inhaled. May cause irritation to the respiratory system and mucous membranes.

### Skin Corrosion/Irritation

May be harmful if absorbed through the skin. May cause skin irritation and has a drying effect on skin.

### Serious Eye Damage/Irritation

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.

### Respiratory Sensitisation

No data available

### Skin Sensitisation

No data available

### Germ Cell Mutagenicity

No data available.

### Carcinogenicity

No data available.

### Reproductive Toxicity

No data available.

### STOT - Single Exposure

No data available.

### STOT - Repeated Exposure

No data available.

### Aspiration Hazard

No data available.

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### Other Information

Additional information

Other Information: The lethal dose for humans for synthetic amorphous silica is estimated at over 15000 mg/kg.

## Section 12 - Ecological Information

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## Section 13 - Disposal Considerations

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### Waste Disposal

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.

## Section 14 - Transport Information

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### UN Number

None Allocated

### Proper Shipping Name

None Allocated

### Transport Hazard Class

None Allocated

### IATA UN Number

NCAD

### IATA Proper Shipping Name

Not dangerous for conveyance under IATA code

### IMDG UN Number

NCAD

### IMDG Proper Shipping Name

Not dangerous for conveyance under IMO/IMDG code

### Additional Information

ADG (Road and Rail);

Not dangerous goods

IMDG:

Not dangerous goods

IATA:

Not dangerous goods

## Section 15 - Regulatory Information

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### Regulatory Information

Australia SUSMP

Poison Schedule: NS

California Prop. 65 Components:

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Canadian Domestic Substances List (DSL):

Chemical name: Silica gel, pptd., cryst.-free

CAS: 112926-00-8

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Chemical name: Silica, amorphous, fumed, cryst.-free  
CAS: 112945-52-5

Chemical name: Silica, hydrate  
CAS: 10279-57-9

Chemical name: Water  
CAS: 7732-18-5

Massachusetts Right To Know Components:  
No components are subject to the Massachusetts Right to Know Act.

New Jersey Right To Know Components:  
Common name: SILICA, AMORPHOUS, PRECIPITATE & GEL  
CAS number: 112926-00-8

Water  
CAS-No. 7732-18-5

Pennsylvania Right To Know Components:  
Water  
CAS-No. 7732-18-5

SARA 302 Components:  
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Hazards:  
No SARA Hazards

SARA 313 Components:  
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Poisons Schedule**  
Not Scheduled

### Section 16 - Any Other Relevant Information

#### Version Number

1.0

#### Contact Person/Point

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

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#### User Codes

User Title Label	User Codes
Wis Numbers	02774863

#### Other Information

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.

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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](https://hcis.safeworkaustralia.gov.au)  
IATA, Dangerous Goods Regulations (DGR)  
IMO, International Maritime Dangerous Goods Code (IMDG)

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