1. Identification

<table>
<thead>
<tr>
<th>GHS Product Identifier</th>
<th>CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Company Name</td>
<td>38 - 50 Bedford Street GILLMAN SA 5013 Australia</td>
</tr>
<tr>
<td>Address</td>
<td>Tel: (08) 8440-2000 Fax: (08) 8440-2001</td>
</tr>
<tr>
<td>Emergency phone number</td>
<td>CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)</td>
</tr>
</tbody>
</table>

**Product Name:** SILICA GEL Orange

**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 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:**

3. Composition/information on ingredients

**Chemical Characterization Ingredients:**
Solid

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS</th>
<th>Proportion</th>
<th>Hazard Symbol</th>
<th>Risk Phrase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synthetic amorphous silica</td>
<td>112926-00-8</td>
<td>93-100 %</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Iron compounds</td>
<td></td>
<td>0-5 %</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>0-5 %</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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
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 dust. Avoid prolonged or repeated contact with skin and eyes.
- **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.

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.
- **Hand Protection**: Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336. Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.
- **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.
Safety Data Sheet

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Product Name: SILICA GEL Orange

Not classified as hazardous

Decomposition Temperature Melting Point >823 °C > 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 conditions.
Hygroscopic. Sensitive to strong heating.
Conditions to Avoid Exposure to moisture. Exposure to air. Light, heat, incompatibles.
Incompatible Materials Strong heating, strong oxidizing agents.
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 Poisons Schedule Listed in the Australian Inventory of Chemical Substances (AICS).
Not Scheduled

16. Other Information

Literature References
'Standard for the Uniform Scheduling of Medicines and Poisons ', Commonwealth of Australia.
Safety Data Sheet

Product Name: SILICA GEL Orange

Not classified as hazardous

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)'.

Contact Person/Point: Paul McCarthy Ph. (08) 8440 2000

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Empirical Formula: SiO2
Structural Formula: ...End Of MSDS...