

# Material Safety Data Sheet

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Infosafe No™ JXF1X Issue Date : March 2015 RE-ISSUED by THERMOF

Product Name **SILICA GEL SELF INDICATING 4-6 MESH**

Not classified as hazardous

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** SILICA GEL SELF INDICATING 4-6 MESH  
**Product Code** 840  
**Company Name** Thermo Fisher (ABN 64 121 927 786)  
**Address** 5 Carribean Drive  
(PO Box 9092) Scoresby  
VIC 3174 Australia  
**Emergency Tel.** 1800 638 556 (24 hr) Aust / (NZ): 0800 154 666  
**Telephone/Fax Number** Tel: 1300 884 078  
**Recommended Use** Used in chromatography, and also as a moisture absorbent.

<b>Other Names</b>	<b>Name</b>	<b>Product Code</b>
	SILICA GEL GRADE 12 28-200 MESH	1453
	SILICA GEL 230-400 MESH	10709
	SILICA GEL 60-200 MESH	10124
	SILICA GEL SELF INDICATING SACHETS	1456
	SILICA GEL SELF INDICATING 5-10 MESH	1510
	SILICA GEL	10416
	SILICA GEL 60-200 MESH	1455
	SILICA GEL	10967
	SILICA GEL BLUE SELF INDICATING	10708
	SILICA GEL 230-400 MESH	1454
	SILICA GEL	3694
	SILICA GEL BLUE	10995
	SILICA GEL BLUE	10996
	SILICA GEL 5-10 MESH, SELF INDICATING, BLUE, INDUSTRIAL LABCHEM	1511
	SILICA GEL	3678

**Other Information** NEW ZEALAND: Ajax Finechem (NZ) Ltd  
150B Harris Road, East Tamaki, Auckland  
Phone (09) 273 4343  
Fax (09) 273 4341  
Emergency Advice (NZ): Phone 0800 154 666

## 2. HAZARDS IDENTIFICATION

**Hazard Classification** Not classified as hazardous  
Australia:  
Not classified as Hazardous, according to criteria of National Occupational Health & Safety Commission, Australia (NOHSC).  
Not classified as Dangerous Goods, according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.  
New Zealand:  
Not classified as Hazardous according to the NZ Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.  
Not classified as Dangerous Goods for transport, according to the NZS 5433:2007 Transport of Dangerous Goods on Land.

**Safety Phrase(s)** S22 Do not breathe dust.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>	<b>Hazard Symbol</b>	<b>Risk Phrase</b>
	Silicon dioxide, amorphous	112926-00-8	100 %		

**Other Information** Traces of Al, Ti, Ca, Na, Mg, As and heavy metals. Some grades may contain cobalt. The cobalt is encapsulated in the silica gel and therefore pose no hazard to the user.

## 4. FIRST AID MEASURES

**Inhalation** Remove the source of contamination or move the affected person to fresh air. Ensure airways are clear. Keep at rest. If symptoms persist seek medical

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	attention.
<b>Ingestion</b>	Do not induce vomiting. Rinse mouth thoroughly with copious amounts of water. Seek medical attention.
<b>Skin</b>	Wash gently and thoroughly with water and non-abrasive soap. If irritation develops and persists seek medical attention.
<b>Eye</b>	If contact with the eyes occurs, wash with copious amounts of water holding eyelids open, for several minutes. Seek medical attention.
<b>First Aid Facilities</b>	Eye wash and normal washroom facilities.
<b>Advice to Doctor</b>	Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Use extinguishing media suitable for combustible material involved in the fire; use water spray or fog, foam, dry chemical powder or carbon dioxide.
<b>Hazards from Combustion Products</b>	Under fire conditions this product emits silica dust.
<b>Specific Hazards</b>	Non-combustible; does not present a fire hazard. Paper packaging will burn under fire conditions. The product, due to its inorganic nature, will not cause a dust explosion.
<b>Precautions in connection with Fire</b>	Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) and full protective clothing to prevent exposure to vapours, fumes or products of combustion.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Emergency Procedures</b>	Wear sufficient protective equipment and clothing to minimise respiratory, skin and eye exposure. Collect the material using dustless methods such as vacuum if possible, or sweep up carefully avoiding dust generation. If necessary dampen with water to avoid airborne dust. Transfer spilled material to suitable labelled containers. Seal all wastes in labelled containers for subsequent recycling or disposal. If the spilled material enters the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.
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## 7. HANDLING AND STORAGE

<b>Precautions for Safe Handling</b>	Wear appropriate protective equipment to prevent inhalation, skin and eye contact. Avoid generating dust. Use in designated areas with adequate ventilation. Keep containers or bags closed when not in use.
<b>Conditions for Safe Storage</b>	Store in a cool, dry, well-ventilated area, out of direct sunlight and moisture. Store in labelled, corrosion-resistant containers. Keep containers tightly closed. Store away from oxidising agents and other incompatible materials. Reference should be made to all Local, State and Federal regulations.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>National Exposure Standards</b>	The following exposure standards have been established for this material by the National Occupational Health & Safety Commission (NOHSC), Australia and the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour: National Occupational Health And Safety Commission (NOHSC), Australia Exposure Standards: Silica gel TWA 10 mg/m <sup>3</sup> (inspirable fraction) New Zealand Workplace Exposure Standards (OSH): Silica gel TWA 10 mg/m <sup>3</sup> (inspirable fraction) TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.
<b>Engineering Controls</b>	Use with ventilation that is adequate to maintain the airborne contaminants below the exposure standards. The use of a local exhaust ventilation system, drawing dusts away from workers breathing zone, is recommended.
<b>Respiratory Protection</b>	If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable particulate (dust) filter should be used. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and

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<b>Eye Protection</b>	AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances. Safety glasses with side shields or goggles should be worn. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.
<b>Hand Protection</b>	Wear laminated film, nitrile or other suitable gloves conforming to AS/NZS 2161: Occupational protective gloves.
<b>Body Protection</b>	Suitable protective work wear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Amorphous granules or spheres, coloured white (non-indicating) or blue (indicating). A pink colour indicates that the material should be regenerated.
<b>Melting Point</b>	Not available
<b>Boiling Point</b>	Not available
<b>Solubility in Water</b>	Not soluble
<b>Specific Gravity</b>	Not available
<b>pH Value</b>	Not applicable
<b>Vapour Pressure</b>	Not applicable
<b>Flash Point</b>	Not applicable
<b>Flammability</b>	Non-combustible solid.
<b>Auto-Ignition Temperature</b>	Not available
<b>Flammable Limits - Lower</b>	Not applicable
<b>Flammable Limits - Upper</b>	Not applicable

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid</b>	Dusty conditions and moisture
<b>Incompatible Materials</b>	Hydrogen fluoride, fluorine, xenon hexafluoride, oxygen difluoride and chlorine trifluoride.
<b>Hazardous Decomposition Products</b>	Not available
<b>Hazardous Polymerization</b>	Will not occur.

## 11. TOXICOLOGICAL INFORMATION

<b>Toxicology Information</b>	Human: Silicosis or other product specific illnesses of the respiratory tract were not observed in association with this product. Silica gel is a form of amorphous silica. It should be noted that the amorphous form of silica is physically different from the crystalline forms of silica such as quartz, cristobalite and tridymite. Silica gel has been analysed for these crystalline forms by X-ray diffraction, and no crystalline forms have been found. The best medical and technical information indicates no history or probability of systemic poisoning or silicosis-related effects from exposure. No asbestos is used in the manufacture of silica gel products, either as raw material or in processing equipment.
<b>Inhalation</b>	Inhalation of dust may result in respiratory irritation. Dusty conditions should be avoided to prevent drying of the mucous membranes of the nose and

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<b>Ingestion</b>	throat. Ingestion of this material may irritate the gastric tract and stomach, and produce gastrointestinal symptoms, including nausea and vomiting.
<b>Skin</b>	Contact with skin may cause irritation. It will have a drying effect on the skin.
<b>Eye</b>	May cause irritation in contact with eyes, resulting in tearing and stinging. It will tend to absorb moisture therefore causing discomfort.
<b>Chronic Effects</b>	Prolonged or repeated inhalation of particles may cause an increase in respiratory disorders.

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Not available
<b>Persistence / Degradability</b>	Not available
<b>Mobility</b>	Not available
<b>Bioaccumulative Potential</b>	Not available

## 13. DISPOSAL CONSIDERATIONS

<b>Disposal Considerations</b>	The spilled or waste material must be disposed of in accordance with applicable local, state and federal regulations.
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## 14. TRANSPORT INFORMATION

<b>Transport Information</b>	Australia: Not classified as Dangerous Goods, according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition) New Zealand: Not classified as Dangerous Goods for transport, according to the NZS 5433:2007 Transport of Dangerous Goods on Land.
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## 15. REGULATORY INFORMATION

<b>Regulatory Information</b>	Australia: Not classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia. Not scheduled according to the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).
<b>Poisons Schedule</b>	Not Scheduled
<b>National and or International Regulatory Information</b>	New Zealand: Not classified as Hazardous according to the NZ Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001. All components of this product are listed on the New Zealand Inventory of Chemicals (NZIoC).
<b>AICS (Australia)</b>	All constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

## 16. OTHER INFORMATION

<b>Date of preparation or last revision of MSDS</b>	MSDS created: August 2010 Supersedes: August 2005, October 2000
<b>Contact Person/Point</b>	For further information contact the Compliance Manager on (02) 9524 0757 during business hours. In emergencies Australia 1800 638 556
	IMPORTANT ADVICE: This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Ajax Finechem Pty Ltd. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

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