



# Material Safety Data Sheet

## SIBELCO GRADED SAND & GRAVEL PRODUCTS

Infosafe No.: LPVEG  
Issued Date: 02/12/2011  
Issued by: SIBELCO AUSTRALIA LIMITED

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name**

SIBELCO GRADED SAND & GRAVEL PRODUCTS

**Company Name**

SIBELCO AUSTRALIA LIMITED

**Address**

49-55 Woodlands Drive Braeside

Vic 3195 Australia

**Emergency Tel.**

1800 638 556

**Telephone/Fax Number**

Tel: (03)9586 5400

Fax: (03)9586 5413

**Recommended Use**

Used in filtration and drilling applications.

This product is not to be used for abrasive blasting applications.

**Other Names**

Name	Product Code
FILTERSIL SERIES	6, 8/16, 12/20, 18/40, 20/40, 30/60, 40/70, 45/200, 8/16FG, 16/30FG, 18/40FG, 30/60FG
UNIFRAC SERIES	16/30, 20/40, 40/70, 45/200
GRAVEL SERIES	3/2, 5/2, 6/3
ACCUPACK SERIES	40/60

### 2. HAZARD IDENTIFICATION

**Hazard Classification**

NON-HAZARDOUS SUBSTANCE.

NON-DANGEROUS GOODS.

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. (7th edition)

**Risk Phrase(s)**

Not classified as hazardous according to criteria of NOHSC

**Safety Phrase(s)**

S22 Do not breathe dust.

S38 If insufficient ventilation, wear suitable respiratory equipment.

**Other Information**

Undertake health and safety risk assessment on safe methods of handling and use appropriate to your workplace.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Ingredients**

Name	CAS	Proportion
Quartz	14808- 60- 7	99 %

**Other Information**

Contains &lt;1% respirable crystalline silica in the form of quartz.

**4. FIRST-AID MEASURES****Inhalation**

If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms persist seek medical attention.

**Ingestion**

Do not induce vomiting. Wash out mouth thoroughly with water. If symptoms develop seek medical attention.

**Skin**

Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.

**Eye**

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed out completely. If symptoms develop and persist seek medical attention.

**First Aid Facilities**

Eye wash and normal washroom facilities.

**Advice to Doctor**

Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Use extinguishing media that are suitable for the surrounding combustible materials.

**Hazards from Combustion Products**

Under fire conditions this product may emit toxic and/or irritating fumes and gases including carbon monoxide and carbon dioxide.

**Specific Hazards**

The product is not combustible, however the packaging may burn under fire conditions. At 825°C calcium carbonate (calcite) decomposes and gives off carbon dioxide and corrosive fumes of calcium oxide.

**Decomposition Temperature**

Not available

**Precautions in connection with Fire**

Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers.

**6. ACCIDENTAL RELEASE MEASURES****Emergency Procedures**

Increase ventilation. Evacuate all unprotected personnel. Wear sufficient respiratory protection and full protective clothing to prevent exposure. Sweep up material avoiding dust generation or dampen spilled material with water to

avoid airborne dust, then transfer material to a suitable container. Wash surfaces well with soap and water. Seal all wastes in labelled plastic containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of dust in the work atmosphere. Avoid inhalation of dust, and skin or eye contact. Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities.

### Conditions for Safe Storage

Store in a cool, dry, well-ventilated area, out of direct sunlight and moisture. Protect containers/bags from damage. Avoid generation of dust. Keep containers tightly closed. Store away from bases, water and other incompatible materials. Have appropriate fire extinguishers available in and near the storage area. Ensure that storage conditions comply with applicable local and national regulations.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### National Exposure Standards

No exposure value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC), Australia. However, over-exposure to any chemical may result in enhancement of pre-existing adverse medical conditions and/or allergic reactions and should be kept to the least possible levels. The available exposure limits for ingredients are listed below:

National Occupational Health And Safety Commission (NOHSC), Australia Exposure Standards:

Substance	TWA		STEL		NOTICES
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
Quartz	-	0.1	-	-	-
Dust (inspirable fraction)	-	10	-	-	-

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.

STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

### Biological Limit Values

No biological limits allocated.

### Engineering Controls

Good ventilation adequate to maintain the concentration below exposure standards is required. The use of a local exhaust ventilation system (drawing dusts away from workers breathing zone) is recommended. If the engineering controls are not sufficient to maintain concentrations of particulates below the exposure standards, suitable respiratory protection must be worn.

### Respiratory Protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable particulate filter should be used. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

### Eye Protection

Safety glasses with side shields or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

### Hand Protection

Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments.

### Body Protection

Suitable protective workwear should be worn when working with this material, e.g. cotton overalls buttoned at neck and wrist.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### Appearance

Off white to light brown crystals

### Odour

Not available

### Decomposition Temperature

Not available

### Melting Point

Not available

### Boiling Point

Not applicable

### Solubility in Water

Insoluble

### Specific Gravity

2.65

### pH Value

Not available

### Vapour Pressure

Not applicable

### Vapour Density (Air=1)

Not available

### Flash Point

Not applicable

### Flammability

Non-combustible

### Auto-Ignition Temperature

Not applicable

### Flammable Limits - Lower

Not applicable

### Flammable Limits - Upper

Not applicable

## 10. STABILITY AND REACTIVITY

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### Chemical Stability

Stable under normal conditions of storage and handling. At 825°C calcium carbonate (calcite) decomposes and emits carbon dioxide and corrosive fumes of calcium oxide.

### Conditions to Avoid

Dust accumulation.

### Incompatible materials

Strong oxidising agents, strong acids, ammonium salts and fluorine.

### Hazardous Decomposition Products

Thermal decomposition may result in the release of toxic and/or irritating fumes.

### Hazardous Polymerization

Will not occur.

## 11. TOXICOLOGICAL INFORMATION

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### Inhalation

Inhalation may cause the drying and irritation of the respiratory tract.

**Ingestion**

Ingestion of large amounts may irritate the gastric tract causing nausea and vomiting.

**Skin**

Skin contact may cause irritation and dryness.

**Eye**

Eye contact may cause mechanical irritation.

**Chronic Effects**

Repeated, prolonged or concentrated inhalation may cause delayed lung injury. Breathing of dust may cause shortness of breath, and aggravate asthma and inflammatory or fibrotic pulmonary disease. Prolonged or repeated contact with the skin in the absence of proper hygiene, may cause dryness and dermatitis.

**Carcinogenicity**

The product contains a small proportion of respirable crystalline silica as quartz (<1%). Crystalline silica has been classified by International Agency for Research on Cancer (IARC) as carcinogenic to humans by inhalation (Group 1) Furthermore, crystalline silica can cause silicosis or other lung diseases on prolonged exposure.

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**12. ECOLOGICAL INFORMATION**

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**Ecotoxicity**

Not available

**Persistence / Degradability**

Not available

**Mobility**

Not available

**Environmental Protection**

Prevent this material entering waterways, drains and sewers.

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**13. DISPOSAL CONSIDERATIONS**

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**Waste Disposal**

Dispose of waste according to applicable local and national regulations.

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**14. TRANSPORT INFORMATION**

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**Transport Information**

Road and Rail Transport (ADG Code):

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code) (7th edition).

Marine Transport (IMO/IMDG):

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport (ICAO/IATA):

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

**U.N. Number**

None Allocated

**Proper Shipping Name**

None Allocated

**DG Class**

None Allocated

**Packing Group**

None Allocated

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**15. REGULATORY INFORMATION**

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**Regulatory information**

Not classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.

Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

**Poisons Schedule**

Not Scheduled

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**16. OTHER INFORMATION**

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**Date of preparation or last revision of MSDS**

MSDS Amendment: May 2013

Section 14: Transport Information

SDS Amendment: March 2013

**1. Identification of the Material and Supplier**

Minor Amendment: May 2012

MSDS Reviewed: December 2011

MSDS Amended: December 2006

MSDS Created: April 2006

**Contact Person/Point**

Emergency Advice: ACOHS ERS - 1800 638 556 (24 Hours)

**PLEASE NOTE:**

The information contained herein is based on data available to Sibelco Australia Limited from both our own technical sources and from recognised published references and is believed to be both accurate and reliable. Sibelco Australia Limited has made no effort to censor nor to conceal deleterious aspects of this product. Since we cannot anticipate or control the many different conditions under which this information and our products may be used, each user should review these recommendations in the specific context of the intended application and confirm whether they are appropriate. It is therefore recommended that you undertake your own risk assessment in relation to your method of handling and proposed use of this product. Sibelco Australia Limited accepts no liability whatsoever for damage or injury caused from the use of this information or of suggestions contained herein.

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**END OF SDS**

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