



Material Safety Data Sheet

SIBELCO MILLED SILICA PRODUCTS

Infosafe™ LPVNE **Issue Date** June 2011 **Status** ISSUED by BS: 1.16.5
No. SIBELCO

Classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name SIBELCO MILLED SILICA PRODUCTS

Product Code

Company Name SIBELCO AUSTRALIA LIMITED

Address 49-55 Woodlands Drive Braeside
Vic 3195

Emergency Tel. 1800 638 556

Telephone/Fax Number Tel: (03)9586 5400
Fax: (03)9586 5413

Recommended Use Functional filler in ceramics, adhesives, cleaning powders, paints and enamels.

Other Names	Name	Product Code
	60G	
	100G	
	200G	
	200/85	
	300G	
	350G	
	400G	
	100WQ	
	200WQ	
	300WQ	
	200 MESH	
	SUPERFINE	
	FERRO 400	
	Silica 60G	
	Silica 100G	
	Silica 200G	

Silica 200/85
 Silica 300G
 Silica 350G
 Silica 400G
 Quartz 100WQ
 Quartz 200WQ
 Quartz 300WQ
 Silica 200 Mesh
 Silica Superfine

2. HAZARDS IDENTIFICATION

Hazard Classification 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.

Risk Phrase(s) R48/23 Toxic: danger of serious damage to health by prolonged exposure through inhalation.

Safety Phrase (s) S22 Do not breathe dust.
 S38 If insufficient ventilation, wear suitable respiratory equipment.
 S45 In case of accident or if you feel unwell seek medical advice immediately
 S53 Avoid exposure - obtain special instructions before use.
 S37/39 Wear suitable gloves and eye/face protection.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	Quartz	14808-60-7	99 %

Other Information Contains >20% respirable free crystalline silica in the form of quartz.

4. FIRST AID MEASURES

Inhalation Avoid becoming a casualty - to protect rescuer, use air-viva, oxy-viva or one-way mask. Remove affected person from contaminated area - Apply artificial respiration if not breathing. Do not give direct mouth-to-mouth resuscitation. Resuscitate in a well-ventilated area. Seek IMMEDIATE medical attention.

Ingestion Do not induce vomiting. Wash out mouth 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 dust 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 appropriate fire extinguisher for surrounding environment.

Hazards from Combustion Products Non combustible material.

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. Store in labelled, corrosion-resistant containers. 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, the available exposure limits for ingredients are listed below:

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

Substance TWA STEL
ppm mg/m³ ppm mg/m³

Quartz (Crystalline silica) - 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

Provide sufficient ventilation to keep airborne levels below the exposure limits. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a local exhaust ventilation system is required.

Respiratory Protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable dust/particulate filter should be used. Reference should be made to Australian/New Zealand 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. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

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

Appearance

White to off white powder

Odour	Odourless
Melting Point	1700°C
Boiling Point	Not applicable
Solubility in Water	Insoluble
Specific Gravity	2.64-2.66
pH Value	4.0-5.0 (20% aqueous slurry)
Vapour Pressure	Not applicable
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

Chemical Stability	Stable under normal conditions of storage and handling.
Conditions to Avoid	Extremes of temperature and direct sunlight.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	Thermal decomposition may result in the release of toxic and/or irritating fumes.
Hazardous Reactions	May react with incompatibles
Hazardous Polymerization	Will not occur

11. TOXICOLOGICAL INFORMATION

Toxicology Information	No toxicity data available for this product.
Inhalation	Toxic: danger of serious damage to health by prolonged exposure through inhalation. Inhalation can cause headaches, impairment

of judgement and in extreme cases can lead to unconsciousness or death. Breathing of dust may cause shortness of breath and aggravate asthma and inflammatory or fibrotic pulmonary disease. Inhalation may cause delayed lung disease. Acute aspiration may cause drying and irritation of the respiratory tract, cough, dyspnea, sneezing, vomiting, cyanosis and pulmonary edema which may be delayed by up to several hours.

- Ingestion** Ingestion of large amounts may irritate the gastric tract causing nausea and vomiting.
- Skin** Skin contact may cause mechanical irritation resulting in redness and itching.
- Eye** Eye contact may cause mechanical irritation. May result in mild abrasion.
- Chronic Effects** Toxic, danger of serious damage to health by prolonged exposure through inhalation. The product contains respirable free crystalline silica. Repeated, prolonged or concentrated inhalation of respirable crystalline silica dust may lead to silicosis, a serious lung disease. The onset of silicosis is usually slow and lung damage may occur even when no symptoms or signs of ill-health have occurred. Silicosis can develop to a more serious degree even after exposure has ceased, and may also lead to other diseases including heart disease and scleroderma.
- Carcinogenicity** The product contains >20% respirable crystalline. Crystalline Silica (respirable size $\leq 7 \mu\text{m}$) has been classified by the International Agency for Research on Cancer (IARC) as Carcinogenic to Humans (Group 1).

12. ECOLOGICAL INFORMATION

- Ecotoxicity** Not available
- Persistence / Degradability** Not available
- Mobility** Not available
- Bioaccumulative Potential** Not available
- Environment Protection** Prevent this material entering waterways, drains and sewers.

13. DISPOSAL CONSIDERATIONS

- Disposal Considerations** The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

14. TRANSPORT INFORMATION

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.

15. REGULATORY INFORMATION

Regulatory Information 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

Hazard Category Toxic

AICS (Australia) All constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Date of preparation or last revision of MSDS MSDS Amendment: May 2013
Section 14: Transport Information
MSDS Reviewed: June 2011
Supersedes: July 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.

End of MSDS

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