

# SAFETY DATA SHEET

**Silica 200/85**

Infosafe No.: LQ2HA  
ISSUED Date : 16/07/2013  
ISSUED by: SIBELCO NEW ZEALAND LIMITED

## 1. IDENTIFICATION

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**GHS Product Identifier**

Silica 200/85

**Company Name**

SIBELCO NEW ZEALAND LIMITED

**Address**

4 - 8 Pavilion Drive Mangere  
Auckland 2022 New Zealand

**Telephone/Fax Number**

Tel: 64 (09) 914 7010

Fax: 64 (09) 9147014

**Emergency phone number**

0800 154 666 (24hrs)

**Recommended use of the chemical and restrictions on use**

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

**Other Names**

Name	Product Code
SIBELCO MILLED SILICA PRODUCTS	
60G	
100G	
200G	
200/85	
300G	
350G	
400G	
100WQ	
200WQ	
300WQ	
200 MESH	
SUPERFINE	
FERRO 400	
Silica 60G	
Silica 100G	
Silica 200G	
Silica 300G	
Silica 350G	
Silica 400G	
Quartz 100WQ	
Quartz 200WQ	
Quartz 300WQ	
Silica 200 Mesh	
Silica Superfine	

## 2. HAZARD IDENTIFICATION

**GHS classification of the substance/mixture**

Classified as Hazardous according to the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001, New Zealand.

Not classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433:2012 Transport of Dangerous Goods on Land.

HSNO Classification:

6.7A - Substance that is known or presumed to be a human carcinogen

6.9A (Repeated exposure) - Substance that is toxic to human target organs or systems

**Signal Word (s)**

DANGER

**Hazard Statement (s)**

H350 May cause cancer by inhalation.

H372 Causes damage to organs through prolonged or repeated exposure by inhalation.

**Pictogram (s)**

Health hazard

**Precautionary statement – Prevention**

P103 Read label before use.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P281 Use personal protective equipment as required.

**Precautionary statement – Response**

P314 Get medical advice/attention if you feel unwell.

P308+P313 IF exposed or concerned: Get medical advice/ attention.

**Precautionary statement – Storage**

P405 Store locked up.

**Precautionary statement – Disposal**

P501 In the case of a substance that is in compliance with a HSNO approval other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided. See Section 13 for disposal details.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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**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

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**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 with water. If symptoms develop seek medical attention.

**Skin**

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

**Eye contact**

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.

**Other Information**

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 13 1126) or a doctor at once.

## 5. FIRE-FIGHTING MEASURES

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### **Suitable Extinguishing Media**

Use appropriate fire extinguisher for surrounding environment.

### **Hazards from Combustion Products**

Non combustible material.

### **Specific Hazards Arising From The Chemical**

The product is not combustible, however the packaging will burn under fire conditions.

### **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

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### **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

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### **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, including any incompatibilities**

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

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### **Occupational exposure limit values**

No exposure value assigned for this material by the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour. However, the available exposure limits for ingredients are listed below:

New Zealand Occupational Safety and Health Service (OSH) Workplace Exposure Standards:

Crystalline silica (Quartz): TWA 0.2 mg/m<sup>3</sup> (Respirable dust); TWA 0.1 mg/m<sup>3</sup> (Inhalable dust); Notice: 6.7A

Particulates: TWA 10 mg/m<sup>3</sup> (Inhalable); TWA 3 mg/m<sup>3</sup> (Respirable)

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.

6.7A: Confirmed carcinogen

### **Biological Limit Values**

No biological limits allocated.

### **Appropriate 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

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**Appearance**

Powder

**Colour**

White to off white

**Odour**

Odourless

**Decomposition Temperature**

Not available

**Melting Point**

1700°C

**Boiling Point**

Not applicable

**Solubility in Water**

Insoluble

**Solubility in Organic Solvents**

Not available

**Specific Gravity**

2.64-2.66

**pH**

4.0-5.0 (20% aqueous slurry)

**Vapour Pressure**

Not applicable

**Vapour Density (Air=1)**

Not available

**Evaporation Rate**

Not available

**Partition Coefficient: n-octanol/water**

Not available

**Flash Point**

Not applicable

**Flammability**

Non-combustible

**Auto-Ignition Temperature**

Not applicable

**Explosion Limit - Upper**

Not applicable

**Explosion Limit - Lower**

Not applicable

## 10. STABILITY AND REACTIVITY

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**Reactivity**

Not applicable

**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.

**Possibility of hazardous reactions**

May react with incompatibles

**Hazardous Polymerization**

Will not occur

## 11. TOXICOLOGICAL INFORMATION

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**Toxicology Information**

No toxicity data available for this product.

**Ingestion**

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

**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.

**Skin**

Skin contact may cause mechanical irritation resulting in redness and itching.

**Eye**

Eye contact may cause mechanical irritation. May result in mild abrasion.

**Respiratory sensitisation**

Not expected to be a respiratory sensitiser.

**Skin Sensitisation**

Not expected to be a skin sensitiser.

**Germ cell mutagenicity**

Not considered to be a mutagenic hazard.

**Carcinogenicity**

May cause cancer by inhalation. 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).

**Reproductive Toxicity**

Not considered to be toxic to reproduction.

**STOT-single exposure**

Not expected to cause toxicity to a specific target organ.

**STOT-repeated exposure**

Causes damage to organs through prolonged or repeated exposure by inhalation.

**Aspiration Hazard**

Not expected to be an aspiration hazard.

**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.

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**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Not available

**Persistence and degradability**

Not available

**Mobility**

Not available

**Bioaccumulative Potential**

Not available

**Environmental Protection**

Prevent this material entering waterways, drains and sewers.

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**13. DISPOSAL CONSIDERATIONS****Disposal considerations**

Product Disposal:

Product wastes are controlled wastes and should be disposed of in accordance with all applicable local and national regulations. This product can be disposed through a licensed commercial waste collection service. The product should be rendered non-hazardous before being sent to a licensed landfill facility.

Do not dispose directly into the sewerage system. Do not discharge into drains or watercourses or dispose where ground or surface waters may be affected.

Personal protective clothing and equipment as specified in Section 8 of this SDS must be worn during handling and disposal of this product. The ventilation requirements as specified in the same section must also be followed, and the precautions given in Section 7 of this SDS regarding handling must also be followed.

In New Zealand, the disposal agency or contractor must comply with the New Zealand Hazardous Substances (Disposal) Regulations 2001. Further details regarding disposal can be obtained on the EPA New Zealand website under specific group standards.

Container Disposal:

The container or packaging must be cleaned and rendered incapable of holding any substance. It can then be disposed of in a manner consistent with that of the substance it contained. In this instance the packaging can be disposed through a commercial waste collection service.

Alternatively, the container or packaging can be recycled if the hazardous residues have been thoroughly cleaned or rendered non-hazardous.

In New Zealand, the packaging (that may or may not hold any residual substance) that is lawfully disposed of by householders or other consumers through a public or commercial waste collection service is a means of compliance with regulations.

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**14. TRANSPORT INFORMATION****Transport Information**

Road and Rail Transport:

Not classified as Dangerous Goods for transport according to the NZS 5433:2012 Transport of Dangerous Goods on Land.

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

**UN proper shipping name**

None Allocated

**Transport hazard class(es)**

None Allocated

**IMDG Marine pollutant**

No

## 15. REGULATORY INFORMATION

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**Poisons Schedule**

Not Scheduled

**National and or International Regulatory Information**

Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.  
Group Standard: Additives, Process Chemicals and Raw Materials (Toxic [6.7]) Group Standard 2006

**HSNO Approval Number**

HSR002512

## 16. OTHER INFORMATION

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**Date of preparation or last revision of SDS**

SDS Created: July 2013

**References**

Workplace Exposure Standards and Biological Exposure Indices , Department of Labour, Health & Safety.

Transport of Dangerous goods on land NZS 5433.

Preparation of Safety Data Sheets - Approved Code of Practice Under the HSNO Act 1996 (HSNO CoP 8-1 09-06).

Assigning a hazardous substance to a group standard.

American Conference of Industrial Hygienists (ACGIH).

## END OF SDS

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