



# Material Safety Data Sheet

## SIBELCO BENTONITE GROUP 1

Infosafe™ LPU50 Issue Date February 2010 Status ISSUED by BS: 1.10.9  
No. SIBELCO

Classified as hazardous according to criteria of NOHSC

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name SIBELCO BENTONITE GROUP 1

Product Code

Company Name SIBELCO AUSTRALIA LIMITED

Address 49-55 Woodlands Drive Braeside  
Vic 3195

Emergency Tel. 1800 638 556

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

Recommended Use Oil well drilling fluids; cement slurries for oil well casings; bonding agent in foundry sands and pelletising of iron ores; sealant for canal walls and dams; thickener in lubricating greases and fire proofing compositions; cosmetics; decolourising agent; filler in ceramics; refractories; paper coatings; asphalt modifier; polishes and abrasives; food additive; catalyst support; pelletising additive for stock food preparations.

Other Names	Name	Product Code
	TRUBOND	
	TRUBOND MW	
	TRUGEL 13A	
	TRUGEL 100	
	TRUGEL 150	
	TRUGEL 200	
	TRUBEN	
	NATURAL SODIUM BENTONITE API	

### 2. HAZARDS IDENTIFICATION

**Hazard** HAZARDOUS SUBSTANCE.  
**Classification** NON-DANGEROUS GOODS.

Hazard classification according to the criteria of NOHSC.  
Dangerous goods classification according to the Australia  
Dangerous Goods Code.

**Risk Phrase(s)** R48/20 Harmful: danger of serious damage to health by prolonged  
exposure through inhalation.

**Safety Phrase** S22 Do not breathe dust.  
**(s)** S38 If insufficient ventilation, wear suitable respiratory  
equipment.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Ingredients	Name	CAS	Proportion
	Smectite	12199-37-0	>74 %
	Quartz/Cristobalite	14808-60-7 & 14464-46-1	<18 %
	Plagioclase	Mixture	<8 %
	Feldspar/Kaolinite		

**Other** The respirable fraction of free crystalline silica is less than  
**Information** 6%.

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### 4. FIRST AID MEASURES

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**Inhalation** If inhaled, remove affected person from contaminated area. Apply  
artificial respiration if not breathing. 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. Remove  
contaminated clothing and wash before reuse or discard. 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** Eyewash and normal washroom facilities

**Advice to**  
**Doctor** Treat symptomatically.

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

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## 5. FIRE FIGHTING MEASURES

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<b>Suitable Extinguishing Media</b>	Use appropriate fire extinguisher for surrounding materials involved in the fire.
<b>Hazards from Combustion Products</b>	Under fire conditions this product may emit toxic and/or irritating fumes
<b>Specific Hazards</b>	The product is not combustible, however the packaging may burn under fire conditions.
<b>Precautions in connection with Fire</b>	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.
<b>Unsuitable Extinguishing Media</b>	Do not use water jets.

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## 6. ACCIDENTAL RELEASE MEASURES

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<b>Emergency Procedures</b>	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 authorities and EPA in accordance with local regulations.
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## 7. HANDLING AND STORAGE

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<b>Precautions for Safe Handling</b>	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.
<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 bases, water and other incompatible materials. Have appropriate fire extinguishers available in and near the storage area.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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<b>National Exposure Standards</b>	<p>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:</p> <p>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>  Crystalline silica - 0.1 - - -  Dust - 10 - - -</p> <p>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.</p> <p>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.</p>
<b>Biological Limit Values</b>	No biological limits allocated.
<b>Engineering Controls</b>	<p>This substance is harmful and should be used with a local exhaust ventilation system, drawing dust away from workers' breathing zone. Alternatively, a process enclosure system such as a fume cupboard should be employed. If the engineering controls are not sufficient to maintain concentrations of particulates below the exposure standards, suitable respiratory protection must be worn. If local exhaust ventilation is used, ensure sufficient air is replaced to compensate the air that has been removed. Refer to AS/NZS 2430.3.1:1997 : Classification of hazardous areas - Examples of area classification - General, for further information concerning ventilation requirements.</p>
<b>Respiratory Protection</b>	<p>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.</p>
<b>Eye Protection</b>	<p>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.</p>
<b>Hand Protection</b>	<p>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.</p>
<b>Body Protection</b>	<p>Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial clothing.</p>

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance</b>	Light pink, off white impalpable powder or granules
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<b>Odour</b>	No distinct odour
<b>Melting Point</b>	Not available
<b>Boiling Point</b>	Not applicable
<b>Solubility in Water</b>	Insoluble. Forms colloidal suspensions in water, with strong thixotropic properties.
<b>Specific Gravity</b>	3.30
<b>pH Value</b>	7-9 (20% aqueous slurry)
<b>Vapour Pressure</b>	Not applicable
<b>Flash Point</b>	Non-combustible solid.
<b>Flammability</b>	Non combustible material
<b>Auto-Ignition Temperature</b>	Not applicable
<b>Flammable Limits - Lower</b>	Not applicable
<b>Flammable Limits - Upper</b>	Not applicable

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## 10. STABILITY AND REACTIVITY

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<b>Chemical Stability</b>	Stable under normal conditions of storage and handling.
<b>Conditions to Avoid</b>	Not available
<b>Incompatible Materials</b>	Not available
<b>Hazardous Decomposition Products</b>	Under fire conditions this product may emit toxic and/or irritating fumes.
<b>Hazardous Polymerization</b>	Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

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<b>Toxicology Information</b>	The product contains crystalline silica.
<b>Inhalation</b>	Inhalation of product dust may cause irritation of the nose, throat and respiratory system.
<b>Ingestion</b>	Ingestion of large amounts may irritate the gastric tract causing nausea and vomiting. When ingested, bentonite can swell

several times in volume and can produce intestinal obstruction.

<b>Skin</b>	Skin contact may cause mechanical irritation resulting in redness and itching.
<b>Eye</b>	Eye contact may cause mechanical irritation. May result in mild abrasion.
<b>Chronic Effects</b>	Harmful: danger of serious damage to health by prolonged exposure through inhalation. , crystalline silica can cause silicosis or other lung diseases on prolonged exposure.
<b>Carcinogenicity</b>	Product contains crystalline silica. 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).

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## 12. ECOLOGICAL INFORMATION

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<b>Ecotoxicity</b>	Not available
<b>Persistence / Degradability</b>	Not available
<b>Mobility</b>	Not available
<b>Environment Protection</b>	Do not discharge this material into waterways, drains and sewers.

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## 13. DISPOSAL CONSIDERATIONS

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<b>Disposal Considerations</b>	The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.
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## 14. TRANSPORT INFORMATION

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<b>Transport Information</b>	Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
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## 15. REGULATORY INFORMATION

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<b>Regulatory Information</b>	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 Drugs and Poisons (SUSDP).
<b>Poisons Schedule</b>	Not Scheduled
<b>Hazard Category</b>	Harmful

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## 16. OTHER INFORMATION

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Date of  
preparation or  
last revision  
of MSDS

MSDS Reviewed: February 2010  
MSDS Supersedes: February 2005

Contact  
Person/Point

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

PLEASE NOTE:

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End of MSDS

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Print Date: 24/03/2011

BS: 1.10.9