

# SAFETY DATA SHEET

## SIBELCO BENTONITE GROUP 1

Infosafe No.:LPU50  
Version No.:1.0  
ISSUED Date:08/02/2010  
ISSUED by SIBELCO AUSTRALIA  
LIMITED

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 Australia

**Emergency Tel.**

1800 638 556

**Telephone/Fax Number**

Tel: (03)9586 5400  
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**

TRUBOND  
TRUBOND MW  
TRUGEL 13A  
TRUGEL 100  
TRUGEL 150  
TRUGEL 200  
TRUBEN  
NATURAL SODIUM BENTONITE API  
TRUGEL 100E

### 2. HAZARD IDENTIFICATION

**Hazard Classification**

Classified as hazardous according to criteria of NOHSC  
HAZARDOUS SUBSTANCE.  
NON-DANGEROUS GOODS.

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)

Classified as hazardous according to criteria of NOHSC

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Core Info.

Classification

First Aid

Transport

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### Safety Phrase(s)

S22 Do not breathe dust.

S38 If insufficient ventilation, wear suitable respiratory equipment.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Ingredients

Name	CAS	EINECS	Proportion	Hazard	R Phrase	Hazard Statement (s)
Smectite	12199- 37- 0		> 74 %			
Quartz/Cristobalite	14808- 60- 7 & 14464- 46- 1		<18 %			
Plagioclase Feldspar/Kaolinite	Mixture		<8 %			

### Other Information

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

## 4. FIRST-AID MEASURES

### 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 Information

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

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Use appropriate fire extinguisher for surrounding materials involved in the fire.

### Hazards from Combustion Products

Under fire conditions this product may emit toxic and/or irritating fumes

### Specific Hazards

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

### 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.

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### Unsuitable Extinguishing Media

Do not use water jets.

## 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 authorities and EPA 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.

## 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		NOTICES
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
Crystalline silica	-	0.1	-	-	-
Dust	-	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

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.

### 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.

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First Aid

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### 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, 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### Appearance

Light pink, off white impalpable powder or granules

### Odour

No distinct odour

### Melting Point

Not available

### Boiling Point

Not applicable

### Solubility in Water

Insoluble. Forms colloidal suspensions in water, with strong thixotropic properties.

### Specific Gravity

3.30

### pH Value

7-9 (20% aqueous slurry)

### Vapour Pressure

Not applicable

### Flash Point

Non-combustible solid.

### Flammability

Non combustible material

### 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.

### Conditions to Avoid

Not available

### Incompatible materials

Not available

### Hazardous Decomposition Products

Under fire conditions this product may emit toxic and/or irritating fumes.

### Hazardous Polymerization

Will not occur.

Core Info.

Classification

First Aid

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## 11. TOXICOLOGICAL INFORMATION

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### Toxicology Information

The product contains crystalline silica.

#### Inhalation

Inhalation of product dust may cause irritation of the nose, throat and respiratory system.

#### Ingestion

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.

#### 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

Harmful: danger of serious damage to health by prolonged exposure through inhalation. , crystalline silica can cause silicosis or other lung diseases on prolonged exposure.

#### Carcinogenicity

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).

## 12. ECOLOGICAL INFORMATION

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### Ecotoxicity

Not available

### Persistence / Degradability

Not available

### Mobility

Not available

### Environmental Protection

Do not discharge this material into waterways, drains and sewers.

## 13. DISPOSAL CONSIDERATIONS

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### Disposal considerations

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

## 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.

Core Info.	Classification	First Aid	Transport
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**U.N. Number**

None Allocated

**Proper Shipping Name**

None Allocated

**DG Class**

None Allocated

**Packing Group**

None Allocated

## 15. REGULATORY INFORMATION

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**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 Drugs and Poisons (SUSDP).

**Poisons Schedule**

Not Scheduled

**Hazard Category**

Harmful

## 16. OTHER INFORMATION

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

MSDS amendment: February 2013  
SECTION 11: Transport information

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 SDS

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