

UNIMIN BENTONITE GROUP 1

Infosafe™ No. LPU50

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Classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name UNIMIN BENTONITE GROUP 1

Product Code

Company Name Unimin Australia Limited (ABN 20 000 971 844)

Address 49-55 Woodlands Drive Braeside

Victoria 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 MW
TRUGEL 13A
TRUGEL 100
TRUGEL 150
TRUGEL 200
TRUBEN

NATURAL SODIUM BENTONITE API

2. HAZARDS IDENTIFICATION

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	Smectite	12199-37-0	>74 %
	Quartz/Cristobalite	2 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 Fire fighters should wear Self-Contained Breathing Apparatus connection with (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.

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

Safe Handling

Precautions for 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.

Safe Storage

Conditions for 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

 $ppm mg/m^3 ppm mg/m^3$

Crystalline silica - 0.1 - - -

Dust - 10 - - -

MSDS: UNIMIN BENTONITE GROUP 1

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eighthour 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.

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

Appearance

Light pink, off white impalpable powder or granules

Odour No distinct odour

Melting Point Not available

Boiling Point Not applicable

Solubility in Insoluble. Forms colloidal suspensions in water, with strong

Water 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

Chemical

Stability Stable under normal conditions of storage and handling.

Conditions to

Avoid Not available

Incompatible

Materials Not available

Hazardous

Decomposition Under fire conditions this product may emit toxic and/or

Products irritating fumes.

Hazardous

Polymerization Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology

Inhalation Inhalation of product dust may cause irritation of the nose,

throat and respiratory system.

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 contact may cause mechanical irritation. May result in mild Eye

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 <= $7~\mu m$) has been classified by the International Agency for Research on Cancer (IARC) as

Carcinogenic to Humans (Group 1).

12. ECOLOGICAL INFORMATION

Not available Ecotoxicity

Persistence /

Degradability Not available

Not available Mobility

Environment

Protection

Do not discharge this material into waterways, drains and

sewers.

13. DISPOSAL CONSIDERATIONS

Disposal

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

14. TRANSPORT INFORMATION

Transport Information Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

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 Drugs and Poisons (SUSDP).

Poisons

Schedule Not Scheduled

Hazard Category Harmful

16. OTHER INFORMATION

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:

The information contained herein is based on data available to Unimin Australia Limited from both our own technical sources and from recognised published references and is believed to be both accurate and reliable. Unimin 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. Unimin 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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