


**UNIMIN**

# Material Safety Data Sheet

## UNIMIN CLAY GROUP 2

**Infosafe™** LPU5R **Issue Date** February 2010 **Status** ISSUED by BS: 1.9.40  
**No.** UNIMINAU

**Classified as hazardous according to criteria of NOHSC**

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** UNIMIN CLAY GROUP 2

**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 Number** Tel: (03) 9586 5400  
Fax: (03) 9586 5413

**Recommended Use** Used in ceramic body and glazes; as a general purpose filler in paints, adhesives, rubber and paper; refractories; electrode coatings.

Other Names	Name	Product Code
	JH314	
	CLAY CERAM	
	CLAY CERAM C	
	K63B	
	K6B	
	CLAY JH314	
	CLAY K63B	
	CLAY K6B	
	CLAY CERAM 3	

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

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
	KAOLINITE	1318-74-7	70-95 %
	Other minerals	Mixture	<15 %
	Quartz (crystalline silica)	14808-60-7	5-15 %

**Other Information** The respirable fraction of free crystalline silica is 10-20%.

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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.

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### 5. FIRE FIGHTING MEASURES

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**Suitable Extinguishing** Use extinguishing media that are suitable for the surrounding

<b>Media</b>	combustible materials.
<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>	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),
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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 vapours 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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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#### Appearance

Dark, off-white or white powder

#### Odour

Clay odour when moistened.

#### Melting Point

Not available

#### Boiling Point

Not applicable

<b>Solubility in Water</b>	Insoluble. Forms colloidal suspensions in water, with strong thixotropic properties.
<b>Specific Gravity</b>	2.66-2.70
<b>pH Value</b>	5.7-8.1 (20% aqueous slurry)
<b>Vapour Pressure</b>	Not applicable
<b>Vapour Density (Air=1)</b>	Not applicable
<b>Flash Point</b>	Not available
<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>	Harmful: danger of serious damage to health by prolonged exposure through inhalation. 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.
<b>Skin</b>	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).

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## 12. ECOLOGICAL INFORMATION

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**Ecotoxicity** Not available

**Persistence / Degradability** Not available

**Mobility** Not available

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

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## 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.

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## 14. TRANSPORT INFORMATION

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**Transport Information** 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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**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

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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:

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.

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End of MSDS

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