

# SAFETY DATA SHEET

Infosafe No.: LPU5S  
ISSUED Date: 09/08/2014

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name

KAOLIN

Company Name - SOLD BY:

ART SPECTRUM MANUFACTURING PTY LTD

Address

PO BOX 287  
BRUNSWICK

Emergency Tel.

1800 638 556

Telephone

03 9387 9799

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
CLAY GROUP 3	
Q38	
Q145	
KO	
K15GM	
ADFLO Q145	
Kaolin KO	
Clay K15GM	
WSB CLAY	

## 2. HAZARD IDENTIFICATION

Hazard Classification

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)**

R49(1) May cause cancer by inhalation.

R48/23 Toxic: danger of serious damage to health by prolonged exposure through inhalation.

**Safety Phrase(s)**

S1 Keep locked up

S22 Do not breathe dust.

S38 If insufficient ventilation, wear suitable respiratory equipment.

S53 Avoid exposure - obtain special instructions before use.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredients		
Name	CAS	Proportion
KAOLINITE	1318- 74- 7	65- 95 %
Crystalline Silica (Quartz)	14808- 60- 7	5- 10 %
Other minerals	Mixture	Balance

**Other Information**

The respirable fraction of free crystalline silica is 10%.

**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 thoroughly with water. Seek medical attention.

**Skin**

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

**Eye**

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. If symptoms develop and/or 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 131 126) 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 and gases.

**Specific Hazards**

This product is non-combustible. However heating can cause expansion or decomposition leading to violent rupture of containers.

**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.

**Unsuitable Extinguishing Media**

Do not use water jets.

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**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.

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**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.

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

**Conditions for Safe Storage**

Store in a cool, dry, well-ventilated area, out of direct sunlight and moisture. Protect containers/bags from damage. Avoid generation of dust. Ensure that storage conditions comply with applicable local and national regulations.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**National Exposure Standards**

No exposure value assigned for this material by Safe Work, Australia. However, the available exposure limits for ingredients are listed below:

Substance	TWA mg/m <sup>3</sup>
Dust not otherwise specified	10
Quartz (respirable dust)	0.1

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.

**Biological Limit Values**

No biological limits allocated.

**Engineering Controls**

Provide sufficient ventilation to keep airborne levels below the exposure limits. Where dusts 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 particulate filter should be used. Reference should be made to Australian 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 work wear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Appearance**

Dark, off-white or white powder

**Odour**

Clay odour when moistened.

**Decomposition Temperature**

Not available

**Melting Point**

Not available

**Boiling Point**

Not applicable

**Solubility in Water**

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

**Specific Gravity**

2.63-2.69

**pH Value**

6.2-8.5 (20% aqueous slurry)

**Vapour Pressure**

Not applicable

**Vapour Density (Air=1)**

Not available

**Evaporation Rate**

Not available

**Viscosity**

Not applicable

**Colour**

Dark, off-white or white

**Octanol/Water Partition Coefficient**

Not available

**Flash Point**

Not applicable

**Flammability**

Non-combustible solid.

**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 storing and handling

**Conditions to Avoid**

Extremes of temperature and moisture

**Incompatible materials**

Not available

**Hazardous Decomposition Products**

Thermal decomposition may result in the release of toxic and/or irritating fumes.

**Hazardous Polymerization**

Will not occur.

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**11. TOXICOLOGICAL INFORMATION**

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**Toxicology Information**

No toxicity data available for this material.

**Inhalation**

Inhalation may cause the drying and irritation of the respiratory tract. Acute aspiration may cause coughing, sneezing and pulmonary edema.

**Ingestion**

Ingestion of large amounts may irritate the gastric tract causing nausea and vomiting. When ingested, material can swell several times in volume and can produce intestinal obstruction.

**Skin**

Skin contact may cause dryness. May cause mild irritation in the case of some individuals with sensitive skin.

**Eye**

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

**Chronic Effects**

Toxic: danger of serious damage to health by prolonged exposure through inhalation. The product contains respirable free crystalline silica. Repeated exposure to 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.

**Carcinogenicity**

May cause cancer by inhalation. This substance is classified as a Category 1 Carcinogen according to National Occupational Health and Safety Commission (NOHSC). That is, there is sufficient evidence to establish a causal association between human exposure to this substance and the development of cancer. Category 1 Carcinogens are substances known to be carcinogenic to humans.

This 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**

No ecological data are available for this material.

**Persistence / 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**

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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.

### U.N. Number

None Allocated

### Proper Shipping Name

None Allocated

### DG Class

None Allocated

### Packing Group

None Allocated

### IMDG Marine pollutant

No

## 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 Medicines and Poisons (SUSMP).

### Poisons Schedule

Not Scheduled

### Hazard Category

Toxic

## 16. OTHER INFORMATION

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### Date of preparation or last revision of MSDS

MSDS reviewed: August 2014

Supersedes: August 2009

### Contact Person/Point

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

### PLEASE NOTE:

The information contained herein is based on data available to Sibelco Australia Limited from both our own technical sources and from recognised published references and is believed to be both accurate and reliable. Sibelco 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. Sibelco Australia Limited accepts no liability whatsoever for damage or injury caused from the use of this information or of suggestions contained herein.

### References

Standard for the Uniform Scheduling of Medicines and Poisons.

Approved criteria for classifying hazardous substances [NOHSC:1008(2004)].

National Code of Practice for the Preparation of Material Safety Data Sheets [NOHSC:2011(2003)].

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Workplace exposure standards for airborne contaminants, Safe work Australia.

American Conference of Industrial Hygienists (ACGIH).

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