

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name CLAY PAVERS AND CLAY PAVER ACCESSORIES

Synonyms PAVER ACCESSORIES, PGH PAVERS.

Uses PAVING.

Supplier Name CSR LIMITED

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Fax +61 2 235 8044

Emergency 1800 807 668

2. HAZARDS IDENTIFICATION

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA
NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	Conc.	CAS No.
SILICA, CRYSTALLINE - QUARTZ	Si-O2	<60%	14808-60-7
MANGANESE	Mn	<2%	7439-96-5
BARIUM MONOHYDRATE ADDITIVES		<1%	7440-39-3
ALUMINIUM SILICATE	Al2-O5-Si	Not Available	Not Available

4. FIRST AID MEASURES

Eye Flush gently with running water. Seek medical attention if irritation develops.

Inhalation Not applicable. Due to product form, acute inhalation symptoms are not anticipated.

Skin (Dust). Gently flush affected areas with water. Seek medical attention if irritation develops.

Ingestion For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor. Due to product form and application, ingestion is considered unlikely.

**Advice To
Doctor** Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flammability Non flammable. No fire or explosion hazard exists.

**Fire and
Explosion** Non flammable. No fire or explosion hazard exists.

Extinguishing Non flammable.

Hazchem Code None Allocated

Colour
Rating
GREEN

6. ACCIDENTAL RELEASE MEASURES

Spillage Collect and reuse where possible.

7. HANDLING AND STORAGE

Handling Use safe work practices to avoid eye or skin contact and inhalation. Observe good personal hygiene. Prohibit eating, drinking and smoking in contaminated areas. Wash hands before eating. Remove contaminated clothing and protective equipment before entering eating areas.

Storage Store in cool, dry, well ventilated area, removed from acids (eg hydrofluoric acid) and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation Do not inhale dust/powder. Use with adequate natural ventilation. Where a dust inhalation hazard exists, mechanical extraction ventilation or dampening with water is recommended.

Exposure Standards SILICA, CRYSTALLINE - QUARTZ (14808-60-7)
ES-TWA : 0.1 mg/m³ (Silica Quartz, respirable, NOHSC)
ES-TWA# : 0.1 mg/m³ (QLD); 0.15 mg/m³ (NSW)
WES : 0.2 mg/m³

MANGANESE (7439-96-5)
ES-TWA : 1 mg/m³ dust or fume
ES-STEL : 3 mg/m³ as fume
WES : 1 mg/m³

BARIUM MONOHYDRATE (7440-39-3)
ES-TWA : 0.5 mg/m³ (as Barium)
WES : 0.5 mg/m³

ALUMINIUM SILICATE (Not Available)
ES-TWA : 10 mg/m³ (total dust)

PPE Wear leather or cotton gloves. If cutting or sanding with potential for dust generation, wear dust-proof goggles and a Class P1 (Particulate) Respirator.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: COLOURED BLOCKS
Odour: ODOURLESS
pH: NOT AVAILABLE
Vapour Pressure: NOT AVAILABLE
Vapour Density: NOT AVAILABLE
Boiling Point: NOT AVAILABLE
Melting Point: > 1000 C
Evaporation Rate: NOT AVAILABLE
Solubility (water): INSOLUBLE
Specific Gravity: 1.9 - 2.4
% Volatiles: NOT AVAILABLE
Flammability: NON FLAMMABLE
Flash Point: NOT RELEVANT

Colour
Rating
GREEN

9. PHYSICAL AND CHEMICAL PROPERTIES cont.

Upper Explosion Limit: NOT RELEVANT
Lower Explosion Limit: NOT RELEVANT
Autoignition Temperature: NOT AVAILABLE

10. STABILITY AND REACTIVITY

Reactivity Incompatible with strong acids (eg. hydrofluoric acid).

Decomposition Products May evolve toxic gases if heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary Low toxicity. Adverse health effects, usually associated with long term exposure to high crystalline silica dust levels are not anticipated, due to product form. This product may only present a hazard if bricks are cut, sanded or drilled with dust generation. Use safe work practices to avoid dust generation - inhalation. Chronic exposure to dust may cause lung fibrosis (silicosis). Crystalline quartz is classified as carcinogenic to humans (IARC Group 1).

Eye Not applicable. Product may only present a hazard if bricks are cut or drilled with dust generation, which may result in mechanical irritation.

Inhalation Not applicable. An inhalation hazard is not anticipated unless bricks are cut, or drilled with dust generation which may result in mucous membrane irritation of the upper respiratory tract with over exposure.

Skin Low irritant. Prolonged and repeated contact may result in irritation due to mechanical action.

Ingestion Not applicable. Due to product form, ingestion is not considered a potential exposure route.

Toxicity Data MANGANESE (7439-96-5)
LD50 (Ingestion) : 9000 mg/kg (rat)

12. ECOLOGICAL INFORMATION

Environment The main component/s of this product occur naturally in the earth's crust. It is not anticipated to cause any adverse effects to plants or animals.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Reuse where possible. No special precautions are required for this product.

Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

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

UN Number None Allocated

DG Class None Allocated

Subsidiary Risk(s) None Allocated

Packing Group None Allocated

Hazchem Code None Allocated

Colour
Rating
GREEN

15. REGULATORY INFORMATION

Poison Schedule A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

16. OTHER INFORMATION

ABBREVIATIONS:

mg/m³ - Milligrams per cubic metre

ppm - Parts Per Million

TWA/ES - Time Weighted Average or Exposure Standard.

pH - relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline.

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.

M - moles per litre, a unit of concentration.

IARC - International Agency for Research on Cancer.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this Chem Alert report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made. Information provided by Risk Management Technologies is summarised for ease of use. Additional technical information is available by calling +61 8 9322 1711.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Chem Alert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

COLOUR RATING SYSTEM: Chem Alert reports are assigned a colour rating of Green, Amber or Red for the purpose of providing users with a quick and easy means of determining the hazardous nature of a product. Safe handling recommendations are provided in all Chem Alert reports so as to clearly identify how users can control the hazards and thereby reduce the risk (or likelihood) of adverse effects. As a general guideline a Green colour rating indicates a low hazard, an Amber colour rating indicates a moderate hazard and a Red colour rating indicates a high hazard.

Report Reviewed Awaiting manufacturer update

Date Printed 13th January 2005

Report Status Chem Alert reports are compiled as an independent source of information by RMT's scientific department, based on the latest chemical and toxicological research and, where appropriate, in compliance with relevant standards, guidance notes and legislation. Where available the manufacturer's original MSDS is also provided to Chem Alert subscribers as a scanned image for their convenience. In many instances Chem Alert reports are compiled on behalf of manufacturers in which case they serve as the "Manufacturer's MSDS" and are clearly identified as such on the relevant reports.

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**Colour
Rating
GREEN**