Safety Data Sheet

Product Name TERRACOTTA ROOF TILES AND ROOF TILE ACCESSORIES

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier name **CSR BUILDING PRODUCTS LIMITED**

Level 5, Triniti 3, 39 Delhi Road, North Ryde, NSW, 2113, AUSTRALIA **Address**

Telephone +61 2 9235 8000; 1800 807 668 (Australia only)

+61 2 8362 9013 Fax 1800 807 668 **Emergency**

http://www.csr.com.au

Synonym(s) CSR TERRACOTTA ROOF TILES AND ROOF TILE ACCESSORIES

ROOFING Use(s)

SDS date 17 November 2014

2. HAZARDS IDENTIFICATION

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

Risk Phrases

None allocated

Safety Phrases

None allocated

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

UN Number None Allocated **Transport Hazard Class** None Allocated **Packing Group** None Allocated **Hazchem Code** None Allocated

COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredient	CAS Number	EC Number	Content
QUARTZ (CRYSTALLINE SILICA)	14808-60-7	238-878-4	<40%
MANGANESE DIOXIDE	1313-13-9	215-202-6	<2%
CLAY	-	-	>60%

4. FIRST AID MEASURES

Eye (Dust exposure) Flush gently with running water, irrigating under eyelids. Seek medical attention if

irritation develops.

Inhalation Exposure is considered unlikely. Due to product form / nature of use, an inhalation hazard is not

anticipated.

Skin Exposure is considered unlikely unless solid is cut or damaged and dusts generated. Gently flush

affected areas with water. Seek medical attention if irritation develops.

Ingestion For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once).

Due to product form and application, ingestion is considered unlikely.

Treat symptomatically. Advice to doctor

5. FIRE FIGHTING MEASURES

ChemAlert.

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Flammability Non flammable.

Fire and explosion No fire or explosion hazard exists.

Extinguishing Use an extinguishing agent suitable for the surrounding fire.

Hazchem code None Allocated

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS.

Environmental precautions Prevent product from entering drains and waterways.

Methods of cleaning upCollect and reuse where possible.

References See Sections 8 and 13 for exposure controls and disposal.

7. STORAGE AND HANDLING

Storage Ensure products are adequately labelled and protected from physical damage.

Handling Before use carefully read the product label. Use of safe work practices are recommended to avoid

eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before

eating. Prohibit eating, drinking and smoking in contaminated areas.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure standards

Ingredient	Reference	TWA		STEL	
Ingredient	Kelefelice	ppm	mg/m³	ppm	mg/m³
Manganese, dust & compounds (as Mn)	SWA (AUS)		1		
Manganese, fume (as Mn)	SWA (AUS)		1		3
Quartz (respirable dust)	SWA (AUS)		0.1		

Biological limits No biological limit allocated.

Engineering controls Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction

ventilation is recommended. Wet where possible. Maintain dust levels below the recommended

exposure standard.

PPE

Eye / Face If cutting or sanding with potential for dust generation, wear dust-proof goggles.

Hands Wear leather or cotton gloves.

Body Not required under normal conditions of use.

Respiratory If cutting or sanding with potential for dust generation, wear a Class P1 (Particulate) respirator.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance COLOURED SOLID Odour SLIGHT ODOUR **Flammability** NON FLAMMABLE Flash point **NOT RELEVANT Boiling point NOT AVAILABLE Melting point NOT AVAILABLE Evaporation rate NOT AVAILABLE** pН **NOT AVAILABLE**



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Vapour density **NOT AVAILABLE** Specific gravity 1.9 to 2.1 Solubility (water) **INSOLUBLE NOT AVAILABLE** Vapour pressure **Upper explosion limit NOT RELEVANT** Lower explosion limit **NOT RELEVANT Partition coefficient** NOT AVAILABLE **NOT AVAILABLE** Autoignition temperature **Decomposition temperature** NOT AVAILABLE **Viscosity** NOT AVAILABLE **Explosive properties** NOT AVAILABLE **Oxidising properties** NOT AVAILABLE **Odour threshold** NOT AVAILABLE % Volatiles NOT AVAILABLE

10. STABILITY AND REACTIVITY

Chemical stability Stable under recommended conditions of storage.

Conditions to avoid No known conditions to avoid.

Material to avoid Incompatible with strong acids (e.g. hydrofluoric acid). May evolve toxic gases if heated to decomposition.

Hazardous Decomposition

Products

Hazardous Reactions Polymerization is not expected to occur.

11. TOXICOLOGICAL INFORMATION

Low toxicity. Adverse health effects, usually associated with long term exposure to high crystalline **Health Hazard** silica dust levels are not anticipated, Due to the product form. This product may present a hazard if **Summary**

Tiles are cut, sanded or drilled with dust generation. Use safe work practices to avoid dust generation - inhalation. Chronic exposure to dust may result in lung fibrosis (silicosis). Crystalline

silica is classified as carcinogenic to humans (IARC Group 1).

Due to product form and nature of use, the potential for exposure is reduced. Product may only Eye present a hazard if material is cut, drilled or sanded with dust generation, which may result in

mechanical irritation. Due to product form and nature of use, the potential for exposure is reduced. Product may only present a hazard if tiles are cut, drilled or sanded with dust generation, which may

result in mechanical irritation.

Inhalation Exposure considered unlikely. An inhalation hazard is not anticipated unless cut, drilled or sanded

with dust generation, which may result in irritation of the nose and throat.

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

Ingestion is considered unlikely due to product form. Ingestion QUARTZ (CRYSTALLINE SILICA) (14808-60-7) **Toxicity data**

> LCLo (inhalation) 300 ug/m³/10 years (human)

TCLo (inhalation) 16 000 000 particles/ft3/8 hours/17.9 years (human-fibrosis)

MANGANESE DIOXIDE (1313-13-9)

LD50 (ingestion) > 3478 mg/kg (rat) LD50 (subcutaneous) 422 mg/kg (mouse) LDLo (intratracheal) 50 mg/kg (rat) LDLo (intravenous) 45 mg/kg (rabbit)

TCLo (inhalation) 49 mg/m³/7 hours (1-18 day pregnant mouse)

12. ECOLOGICAL INFORMATION

Toxicity No information provided. Persistence and degradability No information provided. Bioaccumulative potential No information provided.

Mobility in soil No information provided.



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Other adverse effects

The main component/s of this product are not anticipated to cause any adverse effects to plants or

animals

13. DISPOSAL CONSIDERATIONS

Waste disposal Reuse where possible. Dispose of in accordance with local regulations.

Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
UN Number	None Allocated	None Allocated	None Allocated
Proper Shipping Name	None Allocated	None Allocated	None Allocated
Transport Hazard Class	None Allocated	None Allocated	None Allocated
Packing Group	None Allocated	None Allocated	None Allocated

Environmental hazards

No information provided

Special precautions for user

Hazchem code None Allocated

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 Medicines and Poisons (SUSMP). Inventory Listing(s) **AUSTRALIA: AICS (Australian Inventory of Chemical Substances)**

All components are listed on AICS, or are exempt.

16. OTHER INFORMATION

Additional information

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this 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.

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 ChemAlert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.



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Abbreviations ACGIH American Conference of Governmental Industrial Hygienists

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

CNS Central Nervous System

EC No. EC No - European Community Number

GHS Globally Harmonized System

IARC International Agency for Research on Cancer

LC50 Lethal Concentration, 50% / Median Lethal Concentration

LD50 Lethal Dose, 50% / Median Lethal Dose

mg/m³ Milligrams per Cubic Metre
OEL Occupational Exposure Limit

pH relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly

alkaline).

ppm Parts Per Million

STEL Short-Term Exposure Limit

STOT-RE Specific target organ toxicity (repeated exposure)
STOT-SE Specific target organ toxicity (single exposure)

SUSMP Standard for the Uniform Scheduling of Medicines and Poisons

SWA Safe Work Australia
TLV Threshold Limit Value
TWA Time Weighted Average

Revision history

Revision	Description
2.0	Standard SDS Review
1.0	Initial SDS creation

Report status

This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

Prepared by

Risk Management Technologies 5 Ventnor Ave, West Perth Western Australia 6005 Phone: +61 8 9322 1711 Fax: +61 8 9322 1794 Email: info@rmt.com.au Web: www.rmt.com.au.

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End of SDS



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