# SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name QUARTZ

Synonyms QUARTZ ROCK • SIMCOA QUARTZ

1.2 Uses and uses advised against

Uses AGGREGATE • DECORATIVE STONE • RAW MATERIAL • ROAD BALLEST

1.3 Details of the supplier of the product

Supplier name SIMCOA OPERATIONS PTY LTD

Address 973 Marriott Rd, Wellesley, WA, 6233, AUSTRALIA

**Telephone** (08) 9780 6661

Email craigwallis@simcoa.com.au

Website www.simcoa.com.au

1.4 Emergency telephone numbers

**Emergency** 0408 901 179

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

#### 2.2 GHS Label elements

No signal word, pictograms, hazard or precautionary statements have been allocated.

### 2.3 Other hazards

The solid product as supplied is classified as non-hazardous under normal conditions and does not present an inhalation, ingestion, skin, or eye hazard. However, dust created when the product is cut, grinded and machined may contain crystalline silica some of which may be respirable (particles small enough to go into deep parts of the lung when breathed in).

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
QUARTZ (CRYSTALLINE SILICA)	14808-60-7	238-878-4	>90%
ALUMINIUM OXIDE	1344-28-1	215-691-6	Not Available
CALCIUM OXIDE	1305-78-8	215-138-9	Not Available
IRON OXIDE (FE2O3)	1309-37-1	215-168-2	Not Available
SODIUM OXIDE	1313-59-3	215-208-9	Not Available
POTASSIUM OXIDE	12136-45-7	235-227-6	Not Available

### 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

Eye If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to

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stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

**Inhalation** If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

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**Skin** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.

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

product form and application, ingestion is considered unlikely.

First aid facilities None allocated.

# 4.2 Most important symptoms and effects, both acute and delayed

Contact with dust / powder may result in mechanical irritation.

### 4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

#### 5.2 Special hazards arising from the substance or mixture

Non flammable. May evolve toxic gases if strongly heated. Not expected to evolve hazardous decomposition products.

### 5.3 Advice for firefighters

No fire or explosion hazard exists.

#### 5.4 Hazchem code

None allocated.

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

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

#### 6.2 Environmental precautions

Prevent product from entering drains and waterways.

# 6.3 Methods of cleaning up

Contain spillage, then collect and place in suitable containers for disposal. Avoid generating dust.

#### 6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

# 7. HANDLING AND STORAGE

### 7.1 Precautions for safe 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.

# 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, removed from incompatible substances and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use.

### 7.3 Specific end uses

No information provided.



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# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

### **Exposure standards**

Ingredient	Reference	TWA		STEL	
		ppm	mg/m³	ppm	mg/m³
Aluminium & compounds	SWA [Proposed]		1		
Aluminium oxide (a)	SWA [AUS]		10		
Calcium oxide	SWA [AUS]		2		
Calcium oxide	SWA [Proposed]		1		
Iron oxide fume (Fe2O3) (as Fe)	SWA [AUS]		5		
Quartz (respirable dust)	SWA [AUS]		0.05		

### **Biological limits**

No biological limit values have been entered for this product.

### 8.2 Exposure controls

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 When using large quantities or where heavy contamination is likely, wear dust-proof goggles.

Hands When using large quantities or where heavy contamination is likely, wear PVC or rubber or cotton gloves.

**Body** Not required under normal conditions of use.

**Respiratory** Where an inhalation risk exists, wear a Class P2 (Particulate) respirator.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance WHITE TO AMBER COLOURED SOLID

**NOT AVAILABLE** 

Odour ODOURLESS
Flammability NON FLAMMABLE
Flash point NOT RELEVANT
Boiling point NOT AVAILABLE

Melting point 1713°C

Evaporation rate NOT AVAILABLE PH NOT AVAILABLE Vapour density NOT AVAILABLE

Relative density 2.2

**INSOLUBLE** Solubility (water) **NOT AVAILABLE** Vapour pressure Upper explosion limit NOT RELEVANT Lower explosion limit **NOT RELEVANT** Partition coefficient **NOT AVAILABLE NOT AVAILABLE** Autoignition temperature **NOT AVAILABLE** Decomposition temperature **NOT AVAILABLE** Viscosity **Explosive properties NOT AVAILABLE Oxidising properties NOT AVAILABLE** 

9.2 Other information

**Odour threshold** 

Density 1500 kg/m3

# 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.



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#### 10.2 Chemical stability

Stable under recommended conditions of storage.

### 10.3 Possibility of hazardous reactions

Polymerization will not occur.

### 10.4 Conditions to avoid

Avoid contact with incompatible substances.

### 10.5 Incompatible materials

Incompatible with strong acids (e.g. hydrochloric acid). Also incompatible (possible violently) with oxygen difluoride, vinyl acetate and magnesium.

#### 10.6 Hazardous decomposition products

Not expected to evolve hazardous decomposition products.

### 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

**Acute toxicity** Based on available data, the classification criteria are not met.

Information available for the ingredients:

Ingredient	Oral LD50	Dermal LD50	Inhalation LC50
ALUMINIUM OXIDE	> 5000 mg/kg (rat)		

Skin Contact may result in mechanical irritation, redness, rash and dermatitis. Eye Contact may result in mechanical irritation, lacrimation and redness.

Not classified as causing skin or respiratory sensitisation. Sensitisation Mutagenicity Insufficient data available to classify as a mutagen.

Not classified as a carcinogen. Crystalline silica is classified as carcinogenic to humans (IARC Group 1). Carcinogenicity

However, adverse health effects are not anticipated given the non respirable nature of the silica quartz in this

product (as supplied).

Reproductive Insufficient data available to classify as a reproductive toxin.

STOT - single exposure

Not classified as causing organ damage from single exposure. However, over exposure may result in

irritation of the nose and throat, with coughing.

STOT - repeated

exposure

Not classified as causing organ damage from repeated exposure. Adverse health effects, usually associated with long term exposure to high crystalline silica dust levels are not anticipated due to the product form. This

product may only present a hazard if respirable quartz dust is generated. Chronic exposure to dust may cause lung fibrosis (silicosis).

This product is a solid and aspiration hazards are not expected to occur. **Aspiration** 

### 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

The substance is inert and there is no evidence of significant toxicity.

# 12.2 Persistence and degradability

Being inorganic, the substance will not biodegrade.

# 12.3 Bioaccumulative potential

The substance is inert and will not be absorbed and accumulate in tissues.

# 12.4 Mobility in soil

No information provided.

### 12.5 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



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#### 13.1 Waste treatment methods

Waste disposal Reuse where possible. No special precautions are normally required when handling this product.

**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)
14.1 UN Number	None allocated.	None allocated.	None allocated.
14.2 Proper Shipping Name	None allocated.	None allocated.	None allocated.
14.3 Transport hazard class	None allocated.	None allocated.	None allocated.
14.4 Packing Group	None allocated.	None allocated.	None allocated.

#### 14.5 Environmental hazards

Not a Marine Pollutant.

#### 14.6 Special precautions for user

Hazchem code None allocated.

### 15. REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

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).

Classifications Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and

Labelling of Chemicals.

Inventory listings AUSTRALIA: AIIC (Australian Inventory of Industrial Chemicals)

All components are listed on AIIC, or are exempt.

# 16. OTHER INFORMATION

#### Additional information

SILICA - MEDICAL CONSIDERATIONS: Medical testing for those with frequent or potentially high exposure to silica (half the Exposure Standard or more) is recommended before beginning work and at regular intervals thereafter. This should include; Lung function tests - chest x-rays every 1-3 years. If abnormal chest x-ray develops, skin test for tuberculosis should be done. Any evaluation should include a careful history of past and present symptoms with an exam. Medical tests that look for damage already done are not a substitute for controlling exposure.

EXPOSURE STANDARDS - TIME WEIGHTED AVERAGES: Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: Strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

IARC GROUP 1 - CONFIRMED HUMAN CARCINOGEN. This product contains an ingredient for which there is sufficient evidence to have been classified by the International Agency for Research into Cancer as a human carcinogen. The use of products known to be human carcinogens should be strictly monitored and controlled.

# PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

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The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, 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.

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#### **HEALTH EFFECTS FROM EXPOSURE:**

It should be noted that the effects from exposure to this product will depend on several factors including: form of product; 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 report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

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

EMS Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous

Goods)

GHS Globally Harmonized System

GTEPG Group Text Emergency Procedure Guide 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

#### 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

Fax: +61 8 9322 1794 Email: info@rmt.com.au Web: www.rmtglobal.com

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