



# MATERIAL SAFETY DATA

## EIDSVOLD SILTSTONE METAKAOLIN

### 1. SUPPLIER IDENTIFICATION

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			MSDS Data	Dec-20	
<b>Synonyms</b>	Dimension Stone	Tiles	Pavers	Porcelain Bricks Sawn Blocks	Alumino Silicate Metakaolin

### 2. HAZARDS IDENTIFICATION

**CLASSIFIED AS HAZARDOUS BY ASCC CRITERIA IF DUST PRODUCED THROUGH CUTTING OR GRINDING**

<b>Risk Phrases</b>	R36/37&38 R48/20	Dust irritating to eyes, nose, throat, breathing & skin when exposed Serious danger to health by prolonged exposure through inhalation
<b>Safety Phrases</b>	S/22 S/24 & 25 S/36, 37 & 39	Do not breathe dust, use water when cutting Avoid contact with skin & eyes when dry Wear suitable protective clothing, gloves & eye/face protection

**NOT CLASSIFIED AS A DANGEROUS GOOD BY CRITERIA OF THE ADG Code**

<b>UN No</b>	None allocated	<b>DG Class</b>	None allocated	<b>Subsidiary Risks</b>	None allocated
<b>EPG</b>	None allocated	<b>Hazchem</b>	None allocated	<b>Packing Group</b>	None allocated

### 3. MINERALS IDENTIFICATION & INGREDIENTS

Mineral	Formula	Content
Quartz	SiO <sub>2</sub>	66%
Kaolinite	AlSi <sub>2</sub> O <sub>5</sub> (OH) <sub>4</sub>	33%
Serpentine	(Mg,Fe,Ni,Al,Zn,Mn) <sub>2-3</sub> (SiAlFe) <sub>2</sub> O <sub>5</sub> (OH) <sub>4</sub>	1%
Chlorite	ClO <sub>2</sub>	2%
Biotite	K(MgFe) <sub>3</sub> (AlSi <sub>3</sub> O <sub>10</sub> )(FOH) <sub>2</sub>	
Muscovite	(KF) <sub>2</sub> (Al <sub>2</sub> O <sub>3</sub> ) <sub>3</sub> (SiO <sub>2</sub> ) <sub>6</sub> (H <sub>2</sub> O)	1%

### 4. FIRST AID MEASURES

<b>EYES</b>	If in eyes, rinse immediately with water for five minutes whilst holding eyelids open. Seek medical assistance if irritation continues.
<b>INHALATION</b>	Remove source of contamination or remove victim to fresh air. See medical assistance
<b>SKIN</b>	Remove contaminated clothing and wash in warm soapy water and wash skin.
<b>INGESTION</b>	Immediately rinse mouth times over then drink water and/or milk. Do not induce vomiting and seek immediate medical assistance.

### 5. FIRE FIGHTING MEASURES

Non Flammable & presents nil fire risk.

### 6. ACCIDENTAL RELEASE MEASURES

Contain spill & take all measures to control dust. Wear dust mask if required.

## 7. STORAGE & HANDLING

<b>STORAGE</b>	The containing medium is labelled with name of the product
<b>HANDLING</b>	Read this MSDS sheet, avoid contact with skin, eyes, mouth and nose. Observe good hygiene. Metakaolin is packaged in 20kg buckets, & within weight limitations of Australia Post.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure** Crystalline silica quartz. 0.1mg/m<sup>3</sup> TWA as respirable dust (<7µm dust aerodynamic diameter)

**Biological Limits** Zero biological limit allocated

**Engineering Controls** Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists mechanical extraction ventilation recommended. Maintain dust levels below recommended exposure standard.

## 9. PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance</b>	White or coloured powder slightly tinted, red, brown or orange		
<b>Odour</b>	no odour		
<b>pH</b>	n/a	<b>Solubility</b>	slightly soluble 3.6% absorption
<b>Vapour Pressure</b>	n/a	<b>Specific Gravity</b>	1.3 to 1.5
<b>Vapour Density</b>	n/a	<b>Flammability</b>	n/a
<b>Boiling Point</b>	n/a	<b>Flash Point</b>	n/a
<b>Melting Point</b>	n/a	<b>Upper Explosion Limit</b>	n/a
<b>Evaporation Rate</b>	n/a	<b>Lower Explosion Limit</b>	n/a

## 10. STABILITY & REACTIVITY

<b>Chemical Stability</b>	Stable in any natural environment	<b>Decomposition</b>	n/a
<b>Conditions to Avoid</b>	n/a	<b>Hazardous Reactions</b>	n/a
<b>Material to avoid</b>	n/a		

## 11. TOXICOLOGY INFORMATION

**Health Hazard Summary** Dust is an irritant. Use safe work practices to avoid eye & skin contact and inhalation. Chronic exposure to crystalline silica may result in lung cancer (silicosis). However a major component of this metakaolin is amorphous silica and due to low levels of crystalline silica in this case chronic health effects are not anticipated with normal use.

**Eye** Contact may result in irritation, lacrimation, pain, redness and conjunctivitis.

**Inhalation** Highly chronic toxicity - irritant. Over exposure to dust may mucous membrane irritation of the respiratory tract causing difficulties with breathing and inflammation.  
An inhalation problem is not anticipated with normal use.

**Skin** Irritant. Contact may result in irritation, redness, pain, rash.

**Ingestion** Low to moderate toxicity. Ingestion may result in gastrointestinal irritation, nausea, vomiting, abdominal pain and diarrhoea.

**Toxicity Data** QUARTZ (SILICA CRYSTALLINE) (14808-60-7)

## 12. ECOLOGICAL INFORMATION

**Environment** The main components of this product are not anticipated to cause any adverse effects to plants or animals.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Legislation** Ensure this product is not in an environment that will generate dust and dispose in an approved landfill site. Dispose of in accordance with relevant

local legislation

#### 14. TRANSPORT INFORMATION

Not classified as a dangerous good by the criteria of the ADG code.

#### 15. REGULATORY INFORMATION

**Poison Schedule** A poison schedules number has not been allocated to this product in the Standard for the uniform Scheduling of Drugs & Poisons (SUSDP)

**AICS** All chemicals listed on the Australian Inventory of Chemical Substances (AICS)

#### 16. OTHER INFORMATION

**Additional Information** The information in this safety data sheet is believed to be accurate and is the best information available to Eidsvold Siltstone Pty Ltd.  
This document is intended only a guide to the appropriate precautions for handling for handling a chemical by a person trained in chemical handling.  
Eidsvold Siltstone makes no warranty or merchantability or any other warranty, express or implied with respect to such information or to the product to which is relates, and we assume no liability from the use or handling of the product to which this safety data relates.  
Users and handlers of this product should make their own investigations to determine the suitability of the information provided herein for their own purposes.

Signed,

**Michael Whitty**  
12-Dec-20