

# CRYSTAL STONE Safety Data Sheet

## Section 1 – Identification

SUPPLIER:	<b>CRYSTAL STONE</b> crystalstone.lk	
ADDRESS:	Ruhunu Lanka Minerals (Pvt) Ltd, Dutch House, 34/1, Castle Streer, Colombo – 08, Srilanka.	Telephone Number for Information : +94 776031527 / +94 760954642
Product Identifier (as used on Label, SDS and list) <b>Engineered Stone Tile /Slabs</b> Other means of identification: <b>Agglomerated Stone Tile/Slabs</b>	<b>NOTE:</b> Safety Data Sheets. For purposes of this Safety Data Sheet, the term "Quartz" and/or "Engineered Stone" and/or "Agglomerated Stone" encompasses all types of composite material made of crushed stone bound together by an adhesive.	

## Section 2 – Hazard Identification

Quartz products are mixtures of Natural Quartz, Resins and other naturally occurring minerals. The finished, Quartz products are odorless, stable, non-flammable, and pose no immediate hazard to health. Fabrication and processing of engineered stone, (i.e. cutting, sawing, grinding, breaking, crushing, drilling, sanding or sculpting) will generate dust that can expose you to crystalline silica (quartz). Unprotected and uncontrolled exposure to such dust is dangerous to health and can cause severe illness such a silicosis, lung cancer, fibrosis of the lungs, tuberculosis, kidney disease, abrasions of the cornea and irritation of the skin and eyes. Quartz products are not hazardous as shipped and used by the end user.

## Section 3 – Composition/Ingredients

Composition	Estimated % by Wt.
Crystalline silica as quartz	>90%
Titanium Dioxide	0 - 2%
Iron Oxide	0 - 1%
Other Natural Stone / Minerals <sup>2</sup>	0 - 5%
Polyester Resins	8 -10%

The presence and percentage will vary depending on specific product model. Under normal conditions these products do not release hazardous materials after installation and are not considered hazardous waste should disposal be necessary.

Quartz products are composed of Quartz, Polyester Resins and other naturally-occurring minerals and are fabricated into various shapes, sizes. These products do not contain asbestos. Under normal conditions these products do not release hazardous materials after installation and are not considered hazardous waste should disposal be necessary.

## Section 4 – First Aid Measures

**INHALATION:** Move to fresh air and consult with local medical personnel if discomfort persists.

**SKIN CONTACT:** Wash affected area with soap and water.

**EYE CONTACT:** Flush with tepid water for a minimum of 15 minutes and consult with local medical personnel if discomfort persists.

**INGESTION:** Administer water to dilute, but not if person is unconscious. Consult with local medical personnel if discomfort persists.

## Section 5 – Fire-fighting Measures

Quartz products can be combusted only with difficulty. Decomposition products resulting from the polymer and pigments degrading at elevated temperatures include various hydrocarbons, carbon dioxide, carbon monoxide and water. Fumes of metal oxides and mica particles could also be released.

Fire Extinguishing Media:	Water, Dry Chemical, CO <sub>2</sub> , Foam
Special Fire Fighting Procedures:	None required
Fire and Explosion Hazards:	None

## Section 6 – Accidental Release Measures

Avoid creating excessive dust. Clean up dust with a vacuum system with a High-efficiency particulate (HEPA) air filter vacuum or damp sweeping. See Section 8 of this SDS concerning PPE information for clean-up.

## Section 7 – Handling and Storage

**When cutting, grinding or removing, use equipment with integral dust collection and/or use local exhaust ventilation. Use wet cutting methods to reduce generation of dust. Use respiratory protection in the absence of effective engineering controls. Do not store near acids. Shelf life is unlimited**

## Section 8 – Exposure Controls/Personal Protection

Name	VLA-ED *		VLA-EC *	
	pp <sup>m</sup>	mg/m <sup>3</sup>	pp <sup>m</sup>	mg/m <sup>3</sup>

According to the list of Limit Environmental Professional Exposure Values adopted by the National Institute for Safety and Hygiene at Work for the year 2004.

**Personal protection:**

*Respiratory protection:*

In case a dust-suction on-the-spot system is not available, put dust-mask on.

*Eye protection:*

Put goggles on, when considered necessary. Emergency devices to wash eyes are to be installed in the proximity of work area.

*Skin protection:*

It is recommended to wash the body parts that have been in contact with the preparation, every time you leave working area.

*Environment protection:*

See environmental information at point 12.

## Section 9 – Physical and Chemical Properties

Appearance:	Brittle solid; color will vary
Odor:	Odorless
Melting Point:	Not Available (>1000 °F)
Boiling Point:	Not applicable
Vapor Pressure:	Not applicable
Vapor Density (Air = 1):	Not applicable
Solubility in Water:	Insoluble
Specific Gravity (H <sub>2</sub> O = 1):	2.2 – 2.5
Percent Volatile by Volume:	Not applicable
Evaporation Rate (Ethyl Ether = 1):	Not applicable
Viscosity:	Not applicable

## Section 10 – Stability and Reactivity

Stability:	Stable in current form
Conditions to Avoid:	Avoid contact with acids (e.g., Hydrochloric, acetic, hydrofluoric, etc.)
Incompatibility (Materials to Avoid):	Avoid contact with acids (e.g., Hydrochloric, acetic, hydrofluoric, etc.)
Hazardous Polymerization:	Will not occur
Hazardous Decomposition Products:	Various Hydrocarbons, Carbon Dioxide, Carbon Monoxide Fumes & Water

## Section 11 – Toxicological Information

### Primary Routes of Exposure

**None for intact engineered stone products. Inhalation and potential exposure to eyes, hands, or other body parts if contact is made with broken tile, and/ or during procedures involving the cutting of products, and/or for operations involving the removal of installed products**

### ACUTE EFFECTS

No acute effects from exposure to intact engineered stone products are known. Working with broken or cut engineered stone produces a potential for cuts to the hands and exposed body parts. Acute effects such as eye irritation may occur if associated with high dust operations such as dry cutting or during the removal of installed product. In very rare cases, symptoms of acute silicosis, a form of silicosis (a nodular pulmonary fibrosis) associated with exposure to respirable crystalline silica, may develop following acute exposure to extremely dusty environments caused by generation of engineered stone dust. Signs such as labored breathing and early fatigue may indicate silicosis; however, these same symptoms can arise from many other causes.

## Section 12 – Ecological Information (Non-mandatory)

We have no available information to evaluate the environmental impact of this preparation. It is consequently advised to avoid its dispersion in the surroundings.

## Section 13 – Disposal Considerations (Non-mandatory)

**WASTE DISPOSAL OF SUBSTANCE:** Waste should be disposed of by a licensed waste removal/disposal contractor or in a landfill certified to accept such materials in accordance with local regulations. Collected waste on site in the form of dust/particles should not be allowed to enter any waterway, sewer, or stream of any kind.

CONTAINER DISPOSAL: Dispose of in accordance with local regulations.

### Section 14 – Transport Information (Non-mandatory)

Transportation is not dangerous. In case of road accident causing the product's spillage, proceed in accordance with point 6. General the product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

- a. UN number: Not applicable.
- b. UN proper shipping name: NA.
- c. Transport hazard class (es): No transport warning sign required.
- d. IMDG subsidiary risk ICAO subsidiary risk Transport labels
- e. Packing group: NA.
- f. Environmental hazards: Environmentally hazardous substance/marine pollutant: No.
- g. Special precautions for user: NA.
- h. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: NA

### Section 15 – Regulatory Information (Non-mandatory)

Be careful so as to prevent raising dust. Use of mask, gloves and goggles is recommended, when necessary.

No eating, drinking or smoking within work areas. It is recommended to install dust-suction on-the-spot systems if required.

### Section 16 – Other Information

INTENDED USE OF THIS PRODUCT: This product is intended for use by skilled individuals at their own risk. The information contained herein is based on data considered accurate based on current state of knowledge and experience. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.

**Note: The information in this data sheet provides information related to the potential hazards associated with dusts which may be produced during cutting or otherwise changing the shape of the product during installation and/or removal.**