



## SAFETY DATA SHEET

According to  
HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

### Section 1. Identification of the material and the supplier

Product: **ZERO Crystalline Silica**  
Product Use: Silica surfaces are designed for indoor use, particularly kitchen and bathroom worktops, flooring, cladding and other similar uses.  
Restriction of Use: Refer to Section 15  
New Zealand Supplier: **YJ Stone**  
Address: 293A Church Street  
Onehunga  
Auckland  
Telephone: +64 9 622 3068  
**Emergency No: 0800 764 766 (National Poison Centre)**  
Date of SDS Preparation: 9 March 2026

### Section 2. Hazards Identification

This substance is **NOT** hazardous according to the EPA Hazardous Substances (Classification) Notice 2020.

### Section 3. Composition / Information on Hazardous Ingredients

Ingredients	CAS NUMBER	Weight%
Polyester resin	Mixture	10-20
Glass	Proprietary	80-90
Calcium Carbonate	471-34-1	1-5
Inorganic pigment mixture	Proprietary	<1
Other material	To bal	

### Section 4. First Aid Measures

Routes of Exposure:

If in Eyes If dust gets into the eyes rinse cautiously with water for several minutes.  
If eye irritation persists: Get medical advice.

If on Skin If dust on skin wash with plenty of soap and water. If skin irritation occurs: get medical advice/attention.

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If Swallowed Not a likely route of exposure.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

**Most important symptoms and effects, both acute and delayed**

Symptoms:

**Ingestion:** Not applicable.

**Inhalation:** Not applicable.

**Skin & Eyes:** Mineral dust may produce transitory mechanical irritation to skin and eyes.

**Other:** Persons with preexisting skin disorders may be more susceptible to the effects of this material.

**Section 5. Fire Fighting Measures**

<b>Hazard Type</b>	Non-Flammable
<b>Hazards from decomposition products</b>	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.
<b>Suitable Extinguishing media</b>	Water, dry chemical, CO <sub>2</sub> and foam.
<b>Precautions for firefighters and special protective clothing</b>	Keep personnel away and upwind of fire. Use self-contained breathing apparatus with full face mask.
<b>HAZCHEM CODE</b>	<b>None Allocated</b>

**Section 6. Accidental Release Measures**

This product does not represent a risk of spillage. Solid slabs can simply be collected and disposed of.

Wear suitable respiratory protection and protective clothing (see Section 8).

If large amounts of dust are created by cutting use a HEPA vacuum system or dampen spilled material with water and sweep up wet material to avoid dust generation - DO NOT DRY SWEEP.). Put in a container for disposal. Dispose according to Section 13.

**Section 7. Handling and Storage**

Before starting work using engineered stone, businesses must complete a risk assessment and review their controls. It is important to eliminate uncontrolled dry cutting, grinding or polishing of engineered stone. If this is not reasonably practicable then exposures must be minimised.

Options include:

- isolating work areas or tasks that generate dust using physical barriers or computer numerical control (CNC) machines
- using engineering controls, such as local exhaust ventilation (LEV), water suppression (wet cutting), or on-tool dust extraction attachments. Wet sprays should be controlled by guards to prevent dust becoming airborne and wet waste must be managed. LEV system dust collectors or vacuums should be H-class HEPA filtered. Any LEV must be effective, fit for purpose, installed, set up and used correctly and maintained so that it remains effective
- further minimisation controls include administrative controls, such as good housekeeping practice (wet wiping, using an H-class HEPA-filtered vacuum, and low-pressure water cleaning – dry wiping or sweeping is not appropriate). If a risk still remains, use the appropriate personal protective equipment:
- use a suitable dust mask
- wear suitable work clothing such as coveralls that are disposable or can be laundered at the workplace to avoid taking them home.
- wear safety shoes and gloves during manual handling and storage operations of slabs. The product is heavy and breakable; handle with care to avoid injury and prevent damage. Look for your local safety regulations related to handling and working with heavy material.
- avoid breathing dust.
- Store properly in a closed and covered place. Avoid strong impacts that may cause the material to crack.

**Section 8 Exposure Controls / Personal Protection**

**WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

Substance mg/m <sup>3</sup>	TWA		STEL
	ppm	mg/m <sup>3</sup>	ppm
Calcium carbonate [471-34-1]		10	

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices FEB 2025 15TH EDITION.

**Engineering Controls**

CNC machines and wet cutting methods are recommended to reduce generation of dust.  
 When  
 Fabricating the product, installing or removing/demolishing the installed product, use  
 equipment  
 with integral dust collection and/or use local exhaust ventilation in a safe manner to  
 maintain  
 the ambient workplace atmosphere below the relevant PEL. For cleaning and  
 maintenance use  
 HEPA vacuum and/or water cleaning systems. Never dry sweep or use compressed air.

**Personal Protection Equipment**



<b>Eyes</b>	During Fabrication operations use dust-proof goggles or safety glasses with side shields.
<b>Hands &amp; skin</b>	Cotton or leather work gloves and steel-toed shoes should be worn when handling and transporting the product. During the Fabrication Process protective clothing should be worn to minimize cuts and/or skin exposure to dust.
<b>Respiratory</b>	Properly fitted respiratory protection equipment for protection against organic vapors and dusts is recommended. Dust mask is required.
<b>General</b>	Wash hands before eating, drinking, smoking, or using toilet facilities. Wash thoroughly after work using soap and water.

## Section 9 Physical and Chemical Properties

<b>Appearance</b>	Multi Coloured Engineered Stone - Solid
<b>Colour</b>	Multi Coloured
<b>Odour</b>	Odourless
<b>Odour Threshold</b>	Not available
<b>pH</b>	Not available
<b>Boiling Point</b>	Not available
<b>Melting Point</b>	Not available
<b>Freezing Point</b>	Not available
<b>Flash Point</b>	Not available
<b>Flammability</b>	Not available
<b>Upper and Lower Explosive Limits</b>	Not available
<b>Vapour Pressure</b>	Not available
<b>Vapour Density</b>	Not available
<b>Relative Density</b>	2200-2350kg/m3.
<b>Water Solubility</b>	Insoluble in water
<b>Partition Coefficient:</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Kinematic Viscosity</b>	Not available
<b>Particle Characteristics</b>	Not available

## Section 10. Stability and Reactivity

<b>Stability of Substance</b>	This product is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Not available
<b>Conditions to Avoid</b>	Avoid strong impacts that may cause the material to break.
<b>Incompatible Materials</b>	This product is incompatible with hydrofluoric acid.
<b>Hazardous Decomposition Products</b>	Thermal decomposition can release various hydrocarbons, carbon dioxide, carbon monoxide and water. Fumes of metal oxides and mica particles could also be released.

## Section 11 Toxicological Information

**No acute or chronic effects are known from exposure to the intact product.**

**During Fabrication and dust generated from the product the following health risk occur:**

**Acute Effects:**

<b>Swallowed</b>	Not applicable.
<b>Dermal</b>	Not applicable.
<b>Inhalation</b>	Not applicable.
<b>Eyes &amp; skin</b>	Mineral dust may produce transitory mechanical irritation to skin and eyes.

**Chronic Effects:**

<b>Carcinogenicity</b>	Not applicable.
<b>Reproductive Toxicity</b>	Not applicable.
<b>Germ Cell Mutagenicity</b>	Not applicable.
<b>Aspiration</b>	Not applicable.
<b>STOT/SE</b>	Not applicable.
<b>STOT/RE</b>	Not applicable.

**Section 12. Ecotoxicological Information**

This product is not hazardous to the environment.

<b>Product:</b>	
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulation</b>	No data available
<b>Mobility in Soil</b>	No data available
<b>Other adverse effects</b>	No data available

**Section 13. Disposal Considerations**

**Disposal Method:**

Preferred options for disposal are (1) recycling, and (2) landfill. Dispose of according to Local Regulations.

**Precautions or methods to avoid:** None known.

**Section 14 Transport Information**

**This product is NOT classified as a Dangerous Good for transport in NZ ; NZS 5433:2020**

**Section 15 Regulatory Information**

This substance is NOT classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020.

**Section 16 Other Information**

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## Glossary

EC <sub>50</sub>	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC <sub>50</sub>	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD <sub>50</sub>	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

## References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices FEB 2025 15<sup>th</sup> edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

## Disclaimer

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Please contact the New Zealand distributor, if further information is required.

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