MATERIAL SAFETY DATA SHEET

Product Name: **Lido Quartz™**
MSDS Date: January 1st, 2015

1. Product Name

Product Name: Lido Quartz™
Chemical Name: Natural quartz and polyester resin agglomerate
MSDS Revision Date: January 1st, 2015

Recommended Use	Indoor surface material, specifically kitchen and bathroom tops, wall cladding, flooring and other similar applications.
Avoid/Restricted Use	Dry fabrication processes which produce dust such as grinding, cutting, drilling, and polishing without use of water. Fabrication of material without reading and comprehending the contents of this MSDS document.

2. Hazards Identification

No health hazard is posed from finished Lido Quartz surfaces nor are they hazardous during shipment. However, during fabrication processes dust is produced that contains crystalline silica ($SiOO_2$)**. Do not fabricate the quartz product using dry processes that will create dust, always use sufficient water when possible.**

Hazard Labels

GHS08

Carc 1 A (H350)
STOT RE 1 (H372)

GHS07

STOT SE 3 (H335)

Hazard Classification	Description
Carc. 1A	Carcinogenicity, Category 1A
STOT RE 1	Specific Target Organ Toxicity (repeated exposure), Category 1
STOT SE 3	Specific Target Organ Toxicity (single exposure), Category 3

Harzard Code	Hazard Statement
H350	May cause cancer – inhalation.
H372	Damage to lungs through prolonged or repeated exposure – inhalation.
H335	May cause repiratory tract irritation.

Precautionary Code	Precautionary/Prevention Statement
P103	Read label before use.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required.
P284	Wear respiratory protection for particles (P3).
P314	Get medical advice/attention if you feel unwell.
P335	Brush off loose particles from skin.
P363	Wash contaminated clothing before reuse.
P401	Store indoors.
P410	Protect from sunlight.
P501	Dispose of remains in accordance with local regulations.

Potential Health Effects

Skin and Eye Contact: Product in finished form does not present a health hazard via this route of entry. Dusts and flying particles generated during cutting, grinding and forming may cause irritation and injury.

Acute Inhalation: Dusts from product may cause irritation to respiratory tract, nose, throat and lungs.

Acute Ingestion: Not considered a potential health hazard via this route of entry. This product may cause gastrointestinal irritation if dusts are swallowed.

Chronic Exposure: The adverse health effects from crystalline silica exposure - silicosis, cancer, scleroderma, chronic obstructive pulmonary disease (COPD), kidney disease, tuberculosis, nephrotoxicity and possibly auto-immune disease - are chronic effects. Silicosis is an incurable, progressively disabling and sometimes fatal lung disease. Silica exposure to the lungs can cause inflammation, scarring and the reduction of the lungs ability to take in oxygen.

Aggravation of Pre-existing Conditions:
Those with impaired respiratory function and chronic respiratory disorders may be more susceptible to the effects of fabrication of this product and be adversely affected by airborne particulate exposure. Smoking can also increase the effects and risk of lung damage. Inhalation of airborne particles may also increase the progression of. Tuberculosis. Persons with preexisting skin disorders may also be more susceptible to skin irritation.

3. Ingredient Information

Component	CAS #	% Composition
Crystalline silica (quartz) and other natural stone	14808-60-7	> 90
Resins and trace minerals including Al_2O_3, Fe_2O_3, TiO_2, CaO, MgO, Na_2O, K_2O	NA - Mixture	Balance

4. First Aid Measures

Type of Contact/Exposure	**First-aid Instructions**
After Eye Contact with Dust	Immediately flush eyes with copious amounts of water for a minimum of 15 minutes. Seek immediate medical attention if adverse effect occurs.
After Skin Exposure with Dust	Wash affected area with soap and water. Seek medical attention if adverse effect occurs.
After Inhalation of Dust	Remove person to fresh air. If necessary, use artificial respiration if breathing is stopped and seek immediate medical attention
After Ingestion of Dust	If large amounts of material are swallowed, seek medical attention or advice.

5. Fire Fighting Measures

Quartz Surface 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-Resistant: B, s1 d0/Bfl, s1
Flame Spread Rating: Class A 0-25
Smoke Development Rating: 0-450
Flash Point: 490°C
Flammable Limits in Air: N/A

Suitable Extinguishing Media	Water, Dry Chemical, CO2, Foam
Unsuitable Extinguishing Media	None Known

Fire Fighting Instructions
Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus to protect against inhalation.

6. Accidental Release Measures

Cleanup and Disposal of Spill:
Solid slabs can simply be gathered as necessary and do not present a risk of spillage.

If large amounts of dust or wastes are created by cutting process, use a HEPA vacuum avoiding dust generation or dampen spilled material with water to avoid airborne dust, do not dry sweep. Wear sufficient respiratory protection and protective clothing where necessary. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or local Waste Management Authority. Dispose of waste in accordance with local, provincial and national regulations.

7. Handling and Storage

Handling: Avoid breathing dust when handling or fabricating product. Wash hands thoroughly with soap and water before eating, drinking, smoking, using toilet facilities, or leaving work. Good industrial hygiene practices should be followed when handling this material. Wear proper safety equipment such as steel toe shoes and gloves during manual handling of slabs. Product is heavy and breakable; handle with care to avoid injury and prevent damage.

Storage: Slabs should be stored in a covered area to protect from any damage. The surface of the Lido Quartz slabs should be protected against direct exposure to sun and rain.

8. Exposure Controls/Personal Protection

Engineering Controls: Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the MSDS and below the relevant PEL. General room ventilation is satisfactory under anticipated use conditions. CNC machines and wet cutting methods are recommended to reduce dust.

Cleaning and Maintenance: Use of HEPA vacuums and/or water cleaning systems. Never use compressed air to remove dust particles from surface or dry sweep working area.

Personal Protective Equipment

Limit Exposure To	Personal Protective Equipment (PPE) Recommendation
Skin and Body	Safety gloves and steel-toed shoes. Avoid prolonged skin contact with any generated dust.
Eyes	Dust proof googles with air valves or safety glasses with side shields.
Respiratory System	Properly fitted respiratory protective equipment to avoid crystalline silica exposure during fabrication or other processes that generate dust.

9. Physical and Chemical Properties

Appearance:	Multi-colored solid engineered stone
Colour:	Variable
Odor:	Odourless
pH:	NA
Melting/Freezing Point:	NA
Boiling Point:	NA
Evaporation Point:	NA
Vapour Pressure:	NA
Vapour Density:	NA
% Volatiles:	NA
Viscosity:	NA
Flammability:	NA
Auto-ignition Temperature:	NA
Decomposition Temperature:	NA
Explosive Properties:	NA
Oxidizing Properties:	NA
Flash Point:	490℃
Water Solubility:	Insoluble
Specific Gravity:	2.2-2.5

10. Stability and Reactivity

Incompatible Materials:	Hydrofluoric acid. Silica will dissolve in hydrofluoric acid and produce the corrosive gas silicon tetrafluoride.
Hazardous Decomposition Products:	Thermal decomposition can release various hydrocarbons, carbon dioxide, carbon monoxide fumes, metal oxide fumes, mica particles and water.
Hazardous Polymerization:	Will not occur.
Chemical Stability:	Stable at normal temperatures and storage conditions.
Reactivity:	Stable at normal temperatures, usage and storage conditions.
Conditions to Avoid:	Avoid impact to the material.

11. Toxicological Information

The powder generated in the manufacturing processes contains silica (SiO2). Prolonged and/or massive inhalation of crystalline silica can cause pulmonary fibrosis and pneumoconiosis and silicosis, as well as a worsening of other pulmonary diseases (bronchitis, emphysema, etc.). The main symptom of silicosis is the loss of pulmonary capacity. People with silicosis have a greater risk of getting lung cancer.

12. Ecological Information

Environmental Fate: Not Established
Environmental Toxicity: Not Established
Greenguard Certification: Compliant with the Greenguard Indoor Air Quality Standard.

13. Disposal Considerations

Waste Disposal Method: Preference should always be to recycle the product when possible. Whatever cannot be recycling should be managed in an appropriate and approved waste disposal facility. Dispose in accordance with federal, state, provincial and local laws and requirements.

14. Transportation Information

Not classified as dangerous in the meaning of transport regulations. Transport in accordance with regulations set forth by federal transportation board.

15. Regulatory Information

U.S. Federal Regulations

TSCA Inventory Status: In compliance with TSCA Inventory requirements for commercial purposes. All components of this product are exempt from TSCA Inventory requirements.

U.S. State Regulations

California Prop 65 List; Crystalline silica is classified as a substance known to the State of California to be a carcinogen.

Canada Federal Regulations

Listed on the Canadian Domestic Substances List (DSL).

WHMIS Classification; Class D Division 2 Subdivision A (D2A) – Material that can cause harm to your body, crystalline silica ($SiOO_2$**)** has been shown to be carcinogenic.

16. Other Information

National Fire Protection Association NFPA(R) and Hazardous Materials Identification System (HMIS) Hazard Ratings:

Health Hazard: 1
Flammability: 0
Reactivity: 0

Key Legend Information:

N/A – Not Applicable
PEL – Permissible Exposure Limit
WHMIS – Workplace Hazardous Materials Information System

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. Information is believed to be correct and represents the best available data available to Lido Quartz. However, no warranties are provided, whether expressed or implied and no liability is assumed from this document's use. The data in this MSDS does not constitute as a guarantee of specific properties other than what is explicitly listed in this document nor does it create any contractual obligation. The user of this product holds the responsibility of determining the suitability of Lido Quartz for their given application. It is also the sole responsibility of the user to determine and comply with all applicable law and regulations prior to use of this product. National, provincial, state and international laws and regulations are subject to change and it is the user's responsibility to be up to date and follow any changes.