

Material Safety Data Sheet

Section 1 – Product and Company Information

Company Name: Elite Stone

Website: elitestonegroup.com

Product Name: Quartz, Quartz Countertops, Prefabricated Quartz, Quartz Slabs

Product Uses: Quartz surfacing applications for indoor applications such as kitchen and bathroom countertops, tabletops, flooring, and other uses

Section 2 – Product Composition

<u>Material</u>	<u>Product identifier</u>	<u>Percentage</u>
Quartz / Crystalline Silica	(CAS No) 14808-60-7	>90%
Polyester resin	(CAS No) Not available	3-10%
Additives and pigments		0-1%

Test items	Test methods	Test results
Water absorption	EN 14617-1:2013	0.04 % Classification: W4
Apparent density		2383 kg/m ³
Flexural strength	EN 14617-2:2016	46.0 MPa Classification: F4
Tensile adhesion strength	EN 1348:2007	0.9 N/mm ²

Abrasion resistance (polished)	EN 14617-4:2012	28.8 mm Classification: A4
Breaking load at dowel hole	EN 14617-8:2007	2380 N
Impact resistance	EN 14617-9:2005	4.50 J
Chemical resistance	EN 14617-10:2012	Classification: C4
Slip resistance (polished)	EN 14231:2003	SRV “dry”: 52 SRV “wet”: 10
Thermal performance (Thermal conductivity)	EN 12664:2001	0.486 W/(m·K)

Section 3 – Hazards Identification

Potential Health Effects

Quartz products are not hazardous as shipped or in finished form.

During the fabrication and installation of the product, dust and powder generated may cause irritation to skin, eyes, nose, and airways.

It is highly recommended that adequate ventilation be provided during fabrication and installation. In addition, the usage of protective gloves and masks and wet cutting tools is suggested.

Section 4 – First Aid Measures

Contact with Eyes:

Flush immediately with generous amounts of water for at least 10 minutes. Seek medical attention if irritation persists after flushing.

Contact with Skin:

Thoroughly wash contacted areas with soap and water. Seek medical attention if adverse effects occur.

Inhalation:

Move affected individual to a well-ventilated area, preferably outdoors. If breathing difficulty occurs, seek medical attention immediately.

Ingestion:

Seek medical attention if large amounts are ingested

Section 5 – Fire Fighting Measures

Extinguishing Agents: Water, Dry Chemical, CO₂, Foam

Special Fire Fighting Procedures: Keep personnel away and upwind of fire. Equipment dependent upon surrounding fire.

Unusual Fire and Explosion Hazards: Combusted only with difficulty.

Section 6 – Accidental Release Measures**Cleanup and Disposal of Spill:**

Solid slabs can simply be gathered as necessary. If large amounts of dust or wastes are created by the cutting process, vacuum or sweep up material avoiding dust generation or dampen spilled material with water to avoid airborne dust.

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, state and federal regulations.

Section 7 – Handling and Storage

Special measures are not required for proper handling or storage. Wash hands thoroughly with soap and water after handling.

Handle with care to avoid injury and prevent damage.

Store inside in an area not exposed to excessive sunlight.

Section 8 – Exposure Controls and Personal Protection

Substance	Exposure Guideline
Crystalline silica (quartz)	Respirable dust: 10 mg/m ³ / % SiO ₂ +2 (8 hr. TWA)

Exposure Controls and Protective Equipment

Controls:

Work in a well-ventilated area and wear proper respiratory equipment to avoid inhalation exposure during cutting and polishing. Cutting machinery using water is highly recommended.

Eye/Face Protection:

Use appropriate safety glasses or chemical goggles Respiratory Protection Use respirator approved by NIOSH

Skin Protection:

Use appropriate clothing, footwear, and gloves when handling material to protect hands, exposed skin, and feet.

Section 9 – Physical and Chemical Properties

Physical Appearance	Multi-colored engineered stone (quartz)
Odor	Odorless
pH	N/A

Density 2.3 – 2.4 g/cm

Section 10 – Stability and Reactivity

Reactivity:

No additional information available.

Chemical Stability:

Stable at normal temperatures and storage conditions.

Possibility of Hazardous Reactions:

Polymerization will not occur in solid state.

Conditions to Avoid:

Avoid wet condition. Avoid damage or impact to the material.

Incompatible Materials:

Alkaline solution, Methylene Chloride, Paint Remover, Cleaners that contain pine oil, abrasive scrubs, cleaners containing either soft or hard abrasive particles, bleach.

Hazardous Decomposition Products:

No additional information available.

Section 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.

Section 12 – Ecological Information

Environmental Toxicity:

No detrimental environmental impact known. Toxicity expected to be low based on insolubility in water.

Section 13 – Disposal Considerations

Waste should be disposed of according to local, state, and federal regulations.

Section 14 – Transport Information

Transport of products is not regulated.

ADR/RID/IMO/ICAO/US DOT	Proper Shipping Name	Not Regulated
	Hazard Class	Not Regulated
	ID Number	Not Regulated
	Packaging Group	Not Regulates

Abbreviations and Acronyms:

ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road

RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail

IMO: International Maritime Organization

ICAO: The International Civil Aviation Organization

US DOT: US Department of Transportation

Section 15 – Regulatory Information

U.S. Federal Regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory. This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

CANADA

Quartz (14808-60-7)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

EU

Quartz (14808-60-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not Classified

Other National Regulations

Quartz (14808-60-7)

Listed on IARC (International Agency for Research on Cancer)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed as carcinogen on NTP (National Toxicology Program)

Listed on the Canadian IDL (Ingredient Disclosure List)

U.S. State Regulations

California Proposition 65 – WARNING: This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer, birth defects and/or reproductive toxicity

Quartz (14808-60-7)		
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female

Yes	No	No
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U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No Significant Risk Level (NSRL)
No	No

Section 16 – Other Information

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

Ratings:

Health Hazard: 1

Flammability: 0

Reactivity: 0

The information on this sheet is not a specification and does not guarantee specific properties. The information is intended to provide general knowledge as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non- standard uses of the product or where instructions or recommendations are not followed. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for his or her own particular use.