



MATERIAL SAFETY DATA SHEET

Product Name: **Engineered Quartz Surfaces**

MSDS Date: February 07th, 2018

1. Product and Company Description

Product Name: NILE QUARTZ SURFACES

Distributor: NILE TRADING (UK) LTD

Address: Unit DC4A, Prologis Maylands Gateway, Blossom Way, Hemel Hempstead, HP2 4ZB.

2. Hazards Identification

Appearance/Odor: Quartz Surfaces with no odor.

Potential Health Effects:

Quartz surfaces products are not hazardous as shipped.

Acute Eye: 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 Skin: Dusts generated from this product may cause skin irritation.

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, tuberculosis, and nephrotoxicity - are chronic effects.

Aggravation of Pre-existing Conditions: Not Determined.

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3. Hazardous Chemical Composition

Component	CAS#	%Composition
Crystalline silica (quartz) and other natural stone	14808-60-7	<93
Resins and trace minerals including Al ₂ O ₃ , Fe ₂ O ₃ , TiO ₂ , CaO, MgO, Na ₂ O, K ₂ O,...	N/A	Balance
Pigment Mixture	N/A	<1

4. First Aid Measures

Eye Exposure: Immediately flush eyes with copious amounts of water for a minimum of 15 minutes. Seek immediate medical attention if adverse effect occurs.

Skin Exposure: Wash skin with soap and water. Remove exposed or contaminated clothing, taking care not to contaminate eyes. Seek medical attention if adverse effect occurs.

Inhalation: Remove person to fresh air. If necessary, use artificial respiration.

Ingestion: If the material is 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.

Extinguishing Media

Water, Dry Chemical, CO₂, Foam.

Fire Fighting Instructions

Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus.

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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 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.

7. Handling and Storage

Handling/Storage: Avoid breathing dust. Wash hands before eating, drinking, smoking, or using toilet facilities. Wash thoroughly after work using soap and water. Good industrial hygiene practices should be followed when handling this material. Product is heavy and breakable; handle with care to avoid injury and prevent damage.

8. Exposure Controls / Personal Protection

Exposure Guidelines: Permissible Exposure Limit (PEL)

There is no provision for any risk associated with the finished Nile Quartz Surface product. However, in Fabrication Processes of the product, dust containing crystalline silica (SiO_2), other minerals, and titanium dioxide may be generated. USA OSHA determined a general dust PEL of 15 mg/m^3 , a general respirable dust PEL of 5 mg/m^3 and a titanium dioxide PEL of 15 mg/m^3 . Check the PELs applicable under the regulations of each country where you handle the product.

PELs for respirable crystalline silica and cristobalite, measured in mg/m^3 , 8 hours,

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TWA, are as follows: (These limits may be changed from time to time; you are required to follow local safety announcements.)

Country/Authority	Crystalline Silica (SiO₂)	Cristobalite & Tridymite
Austria	0.15	0.15
Belgium	0.1	0.05
Czech Republic	0.1	0.1
Denmark	0.1	0.05
Finland	0.2	0.01
France	0.1	0.05
Germany ³	-	-
Greece	0.1	0.05
Ireland	0.05	0.05
Israel	0.1	-
Italy	0.025	0.025
Netherlands	0.075	0.075
Norway	0.1	0.05
Poland	0.3	0.3
Portugal	0.025	0.025
Spain	0.1	0.05
Sweden	0.1	0.05
Switzerland	0.15	0.15
United Kingdom	0.1	0.1
Australia	0.1	0.1
South Africa	0.1	-
USA OSHA ^{1,2} PEL ²	0.05	0.05
ACGIH ²	0.025	0.025
NIOSH ²	0.05	0.05

Employers should consult with a trained occupational safety and health professional in order to monitor the air in their workplace and in order to

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determine worker exposures to hazardous dust.

- 1 See OSHA - 29 CFR 1910.1053.
- 2 Abbreviations: see Section 16.
- 3 Germany no longer uses a PEL for quartz, cristobalite and tridymite.
Employers are obliged to minimize exposure as much as possible, and to follow certain protective measures.

Engineering Controls: Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the MSDS. General room ventilation is satisfactory under anticipated use conditions.

Personal Protective Equipment

Respiratory Protection: In case of insufficient ventilation, wear appropriate respiratory equipment in compliance with local regulations.

Eye / Face Protection: During cutting, grinding, or sanding operations safety glasses with side shields or goggles should be worn.

Skin Protection: During cutting, grinding, or sanding operations use body protection appropriate for task including work gloves if handling sharp or rough edges and steel-toed shoes if lifting product.

9. Exposure Controls / Personal Protection

Physical Appearance: Multi-colored engineered stone

Odor:	None
pH:	NA
Specific Gravity:	2.2-2.5
Water Solubility:	Insoluble
Flash Point:	490°C
Melting Point:	NA
Boiling Point:	NA

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Vapor Pressure: NA
% Volatiles: NA
Viscosity: NA

10. Stability and Reactivity

Chemical Stability: Stable

Conditions to Avoid: None

Materials / Chemicals to Be Avoided: This product is incompatible with hydrofluoric acid. Silica will dissolve in hydrofluoric acid and produce the corrosive gas silicon tetrafluoride.

Hazardous Decomposition Products: Upon decomposition, various hydrocarbons, carbon dioxide, carbon monoxide fumes, and water may be released.

Hazardous Polymerization: Will not occur.

11. Toxicological Information

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

Primary Routes of Exposure: None for intact product. Inhalation and potential exposure to eyes, hands, lungs or other body parts if contact is made with dust emitted from the Fabrication Process.

Acute Effects: Breathing dust may cause acute mechanical respiratory irritation. Skin and eye contact may cause mechanical irritation.

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Respiratory Effects

Crystalline Silica (SiO₂)

Exposure to respirable crystalline particles of a very small size (less than 10 microns) may cause silicosis, an incurable, progressively disabling and sometimes fatal lung disease. Silica dust particles become trapped in lung tissue, causing inflammation, and scarring and reducing the lungs' ability to take in oxygen. Symptoms of silicosis can include progressive shortness of breath, cough, and fatigue. Safety measures including wet processing and the use of effective respiratory protection will reduce the burden of inhaled dust and prevent the disease.

Titanium Dioxide (TiO₂)

May cause lung fibrosis and nuisance particulate accumulation in lungs.

Carcinogenicity: The following components are listed by IARC, NTP, OSHA or ACGIH as carcinogens.

Material	IARC	NTP	OSHA	ACGIH
Silica, Crystalline (quartz and cristobalite)	Group 1 carcinogenic to humans	known to be a carcinogen	Yes regulates as carcinogen	A2 suspected human carcinogen

Teratogenicity: No data

Mutagenicity: No data

Name of toxicologically synergistic products: No data

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Toxicity Testing Data

Crystalline Silica: Inhalation (human) LCLo: 0.3mg/m³ /10Y
Inhalation (human) TCLo: 16mppcf/8H/17,9Y
Intermittent; focal fibrosis, (pneumoconiosis), cough, dyspnea
Inhalation (rat) TCLo: 50mg/m³ /6H/71W
Intermittent; liver - tumors
Oral LD 50 RAT: 500 mg/kg

Sensitization: No Data **Mutagenicity:**

No Data **Reproductive Effects:** No

Data **Developmental Effects:** No Data

12. Ecological Information

Environmental Fate: Not Determined

Environmental Toxicity: Not Determined

13. Disposal Considerations

Waste Disposal Method: Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose in accordance with federal, state, and local requirements.

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14. Transportation Information

Not classified as dangerous in the meaning of transport regulations

15. Regulatory Information

U.S. Federal Regulations

TSCA Inventory Status: In compliance with TSCA Inventory requirements for commercial purposes.

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: IDLH Immediately Dangerous to Life and Health

N/A - Not Applicable PEL - Permissible Exposure Limit

ND - Not Determined TWA - Time Weighted Average

ACGIH - American Conference of Governmental Industrial Hygienists

STEL - Short Term Exposure Limit NTP - National Toxicology Program

OSHA - Occupational Safety and Health Administration

TLV - Threshold Limit Value

IARC - International Agency for Research on Cancer

The data in this Material Safety Data Sheet relates only to the specific material

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designated herein and does not relate to use in combination with any other material or in any process.

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