



# SAFETY DATA SHEET

Engineered Quartz Surfaces

## 1. Identification

**Product Name:** Surfaces by Pacific

**Physical Information:** Agglomerated Stone / Engineered Stone

**Synonyms:** Engineered Quartz Slabs, Quartz Surfaces, Engineered Surfaces

**Recommended Uses:** Interior surfacing applications, particularly kitchen and bathroom worktops, vanity tops, wall claddings, and other similar uses.

**Manufacturer:** Surfaces by Surfaces by Pacific

| Location   | Address                                                 | Phone        |
|------------|---------------------------------------------------------|--------------|
| Chicago    | 1300 Mark Street, Elk Grove Village, IL 60007           | 630-475-8861 |
| Cincinnati | 7401 Union Centre Blvd, West Chester Township, OH 45014 | 513-616-0093 |

**Email:** assist@pacsurfaces.com | **Website:** surfacesbypacific.com

This document has been prepared in accordance with the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard, 29 CFR 1910.1200(g), Safety Data Sheets.

## 2. Hazards Identification

SURFACES BY PACIFIC engineered quartz slabs are not hazardous as shipped. The intact product is odorless, stable, non-flammable, and poses no immediate hazard to health. However, dust generated when cutting, grinding, drilling, chipping, polishing, or otherwise fabricating the product contains respirable crystalline silica (SiO<sub>2</sub>). The classification below applies to respirable crystalline silica dust generated during fabrication, installation, removal, or demolition — not to the intact slab.

**Classification of the Chemical (Crystalline Silica) in Accordance with 29 CFR 1910.1200(d)**

**Emergency Overview:** Danger! Lung Injury and Cancer Hazard

## GHS Classification

- Carcinogenicity — Category 1A (H350)
- Specific target organ toxicity, single exposure; respiratory tract irritation — Category 3 (H335)
- Specific target organ toxicity, repeated exposure — Category 1A (H372)

## GHS Label Elements

**Signal Word:** Danger

**Pictograms:**



Category 3 (Respiratory tract irritation) (H335)



Category 1A (Carcinogenicity) (H372)

## Hazard Statements

- H350 — May cause cancer (inhalation).
- H335 — May cause respiratory irritation.
- H372 — Causes damage to organs (lungs/respiratory system) through prolonged or repeated exposure (inhalation).

## Precautionary Statements

- P203 — Obtain, read, and follow all safety instructions before use.
- P260 + P261 — Do not breathe dust.
- P264 — Wash skin thoroughly after handling.
- P270 — Do not eat, drink, or smoke when using this product.
- P271 — Use only outdoors or in a well-ventilated area.
- P280 — Wear protective gloves, protective clothing, eye protection, and face protection.

**Unknown Acute Toxicity:** Not applicable

### 3. Composition / Information on Ingredients

| Sr.No | Ingredients                                                                                                            | CAS #      | Composition |
|-------|------------------------------------------------------------------------------------------------------------------------|------------|-------------|
| 1     | Crystalline Silica (quartz) and other natural stones                                                                   | 14808-60-7 | 1 - 94 %    |
| 2     | Resins and trace minerals including Fe <sub>2</sub> O <sub>3</sub> , Fe <sub>3</sub> O <sub>4</sub> , TiO <sub>2</sub> | NA         | 6 - 15 %    |
| 3     | Cristobalite                                                                                                           | 14464-46-1 | 0 - 94 %    |
| 4     | Glass & Mirror                                                                                                         | NA         | 0 - 15 %    |
| 5     | Inorganic pigment mixture                                                                                              | NA         | 0 - 1 %     |

The percentages specified above are the maximum possible; exact quantities vary by product and color.

### 4. First Aid Measures

#### General Advice

- Seek immediate medical attention if required; move out of the dangerous area.
- Show this Safety Data Sheet to the medical officer.

#### Eye Contact with Dust

- Do not scratch; immediately flush eyes with large amounts of water for at least 15 minutes.
- If irritation persists, seek medical attention.

#### Skin Contact with Dust

- Wash thoroughly with soap and water after working with the product.
- If irritation persists, seek medical attention.

#### Inhalation of Dust

- Remove the person to fresh air. Keep the individual at rest.
- If breathing has stopped, administer artificial respiration and seek immediate medical attention.

## Ingestion

- Not applicable for the intact product. During fabrication, dust may be generated; if a significant amount is ingested or inhaled, seek medical attention.

**Most Important Symptoms/Effects, Acute and Delayed:** May cause respiratory irritation. May cause cancer. May cause damage to lungs through prolonged or repeated exposure.

**Indication of Immediate Medical Attention and Special Treatment Needed:** If exposed or concerned, get medical advice and attention. Have an emergency eyewash station available in areas where the product is cut.

## 5. Firefighting Measures

SURFACES BY PACIFIC engineered quartz slabs are not flammable, combustible, or explosive. They do not burn normally and can only be burnt with an external source.

**Fire Spreading Rating:** Class A 0-25

**Smoke Developed Rating:** 0-450

**Flash Point:** 490 C

**Extinguishing Media:** Water, dry chemical, CO<sub>2</sub>, and foam (ABC extinguisher suitable)

**Fire Fighting Procedures:** Keep personnel away and fight fire from the upwind direction.

Firefighters are recommended to use PPE such as SCBA.

**Unusual Fire Hazards:** Degradation of the product under elevated temperature may result in the release of carbon oxides, iron oxide fumes, etc.

## 6. Accidental Release Measures

**This product does not have any risk of spillage under normal intended uses.**

**Personal Precautions:** Do not breathe dust. Do not get dust in eyes, on skin, or on clothing. Do not handle until all safety precautions have been read and understood. Use personal protection recommended in Section 8 of this SDS.

**Cleanup and Disposal of Spill:** Solid slabs can simply be gathered and disposed of as necessary. If large amounts of dust or waste are created by cutting during fabrication, avoid creating excessive airborne dust: clean up with a vacuum system equipped with a high-efficiency particulate air (HEPA) filter, or dampen spilled material with water and wet sweep. Do not dry sweep. Wear suitable respiratory protection and protective clothing.

## 7. Handling and Storage

**Handling:** SILICA DUST IS HARMFUL IF INHALED. Repeated inhalation of respirable crystalline silica dust from cutting, grinding, polishing, intentional breaking, machining, sweeping, or other clean-up tasks during fabrication can cause acute lung injury, silicosis, or cancer. Use wet cutting methods; do not dry cut. Wear a respirator as required by NIOSH/OSHA standards during these tasks. Wash contaminated clothing before reuse and do not take work clothes home. Quartz slabs are very heavy and breakable and should be handled with care: personnel should wear safety helmets, safety shoes, and hand gloves. A fall of slabs or slab pieces onto body parts can be fatal.

**Storage:** Material is to be stored indoors only. Avoid exposure to sunlight and rain, which will affect the functional requirements of the product. If storing material outside, cover the slabs properly and avoid exposure to weather conditions. Do not store near acids; contact with some acids may damage or discolor the surface. Shelf life is unlimited.

## 8. Exposure Controls / Personal Protection

No exposure limit applies to the intact product under normal usage. The following occupational exposure limits apply to dust generated during fabrication (8-hour time-weighted average):

| Component                                                  | OSHA PEL                                | OSHA AL              | NIOSH REL              | ACGIH TLV               |
|------------------------------------------------------------|-----------------------------------------|----------------------|------------------------|-------------------------|
| Respirable crystalline silica (quartz, cristobalite)       | 50 ug/m <sup>3</sup> (29 CFR 1910.1053) | 25 ug/m <sup>3</sup> | 0.05 mg/m <sup>3</sup> | 0.025 mg/m <sup>3</sup> |
| Titanium dioxide (total dust)                              | 15 mg/m <sup>3</sup>                    | N.E.                 | N.E.                   | 10 mg/m <sup>3</sup>    |
| Particulates not otherwise regulated — respirable fraction | 5 mg/m <sup>3</sup>                     | N.E.                 | N.E.                   | 3 mg/m <sup>3</sup>     |
| Particulates not otherwise regulated — total dust          | 15 mg/m <sup>3</sup>                    | N.E.                 | N.E.                   | 10 mg/m <sup>3</sup>    |

AL = Action Level. N.E. = Not Established. OSHA's respirable crystalline silica standards (29 CFR 1910.1053 for general industry; 29 CFR 1926.1153 for construction) impose additional requirements, including exposure assessment, engineering controls, respiratory protection, medical



surveillance, and hazard communication, when exposures are at or above the action level. Values may differ by state or region — review applicable local regulations before fabrication.

## **Engineering Controls**

The highest probability of silica exposure occurs when using dry cutting methods. CNC machines and wet cutting methods are recommended to reduce dust generation. Exposure control methods set forth in OSHA Table 1 of 29 CFR 1926.1153 are recommended. When fabricating, installing, or removing/demolishing the installed product, use equipment with integral dust collection and/or local exhaust ventilation in a safe manner to maintain the ambient workplace atmosphere below the relevant PEL.

## **Cleaning and Maintenance**

Use vacuum systems equipped with HEPA filters and/or water cleaning systems. Never dry sweep or use compressed air.

## **Personal Protective Equipment**

**Respiratory Protection:** Wear a NIOSH-approved respirator when cutting, grinding, polishing, intentionally breaking, machining, sweeping, or cleaning up during fabrication, as required by NIOSH and/or OSHA standards.

**Eye/Face Protection:** Use dust-proof goggles or safety glasses with side shields. Contact lenses may absorb irritants — do not wear contact lenses in work areas.

**Hand and Skin Protection:** Cotton or leather work gloves should be worn when cutting this product to minimize skin exposure to dust and cuts. Use steel-toed shoes if lifting product. Wash hands prior to eating, drinking, or smoking, and at the end of the work shift.

Note: Personal protection information in this section is based on general information for normal uses and conditions. Where special or unusual uses or conditions exist, obtain the assistance of an industrial hygienist or other qualified professional.

## 9. Physical and Chemical Properties

| Property                       | Value                             |
|--------------------------------|-----------------------------------|
| Appearance                     | Sheet / slab; can be of any color |
| Physical State                 | Solid                             |
| Odor                           | Odorless                          |
| Odor Threshold                 | Not applicable                    |
| Specific Gravity / Density     | 2.15 - 2.46 g/cc                  |
| pH Value                       | Not applicable                    |
| Boiling Point / Boiling Range  | Not applicable                    |
| Melting Point                  | Not applicable                    |
| Freezing Point                 | Not applicable                    |
| Vapor Pressure & Vapor Density | Not applicable                    |
| % Total Volatiles by Volume    | <0.001 mg/m <sup>3</sup>          |
| Evaporation Rate               | Not applicable                    |
| Viscosity                      | Not applicable                    |
| Flammability                   | Not applicable                    |
| Solubility                     | Insoluble in water                |
| Auto-ignition Temperature      | Not applicable                    |
| Decomposition Temperature      | Not applicable                    |

## 10. Stability and Reactivity

**Reactivity:** The product is stable under normal conditions of use, storage, and transport.

**Chemical Stability:** Stable at normal temperatures and storage conditions.

**Physical Stability:** Avoid strong impacts that may cause the material to break.

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Conditions to Avoid / Incompatibility with Other Materials:** Avoid contact with acids (e.g., acetic, hydrofluoric). This product is incompatible with hydrofluoric acid.

**Hazardous Decomposition Products:** Thermal decomposition can release various hydrocarbons, carbon dioxide, carbon monoxide, and water. Fumes of metal oxides and mica particles could also be released.

## 11. Toxicological Information

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

**Primary Routes of Exposure:** None for the 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. In very rare cases, symptoms of acute silicosis may develop following acute exposure to extremely dusty environments in excess of established permissible occupational exposure limits. Working with broken or cut product produces a potential for cuts to hands and exposed body parts.

**Chronic Effects:** Long-term, continual exposure to respirable crystalline silica in excess of established permissible occupational exposure limits may lead to silicosis, a nodular pulmonary fibrosis — an incurable, progressively disabling, and sometimes fatal lung disease resulting in permanent lung damage. Silica dust particles become trapped in lung tissue, causing inflammation and scarring and reducing the lungs' ability to take in oxygen. Symptoms can include shortness of breath, cough, and fatigue. Chronic exposure is also associated with lung cancer, chronic obstructive pulmonary disease (COPD), bronchitis, emphysema, kidney disease, and autoimmune disorders (for example, rheumatoid arthritis).

**Potential Adverse Interactions:** Silicosis may be complicated by severe mycobacterial or fungal infections and is a risk factor for developing tuberculosis. Persons with impaired respiratory function or existing respiratory or pulmonary diseases may be more susceptible. Smoking may increase the risk of adverse effects in conjunction with occupational exposure to silica dust.



**Carcinogen Status:** Respirable crystalline silica is classified by the International Agency for Research on Cancer (IARC) as a Group 1 carcinogen (carcinogenic to humans). The National Toxicology Program lists respirable crystalline silica as known to be a human carcinogen. OSHA lists crystalline silica on the Hazard Communication carcinogen list.

## 12. Ecological Information

**Environmental Fate:** Not determined

**Environmental Toxicity:** Not determined

## 13. Disposal Considerations

**Waste Disposal Method:** Preferred options for disposal are (1) recycling and (2) landfill. All disposal must be carried out in accordance with all federal, state, and local laws, requirements, and guidelines applicable in the location of the user of SURFACES BY PACIFIC products. Landfilling should be performed at an appropriate waste disposal facility approved by local authorities and certified to accept such materials.

## 14. Transport Information

**D.O.T. Shipping Name:** Not Applicable

**Hazard Class:** Non-regulated (for disposal purposes, material is non-hazardous)

**ID Number / Marking / Label / Placard:** Not applicable / None

**Hazardous Substance/RQ:** Not applicable

**Shipping Description:** SURFACES BY PACIFIC engineered quartz slabs

Slabs are heavy and fragile — secure loads appropriately to prevent shifting, breakage, and injury during transit.

## 15. Regulatory Information

**TSCA:** This product's components have been previously introduced into U.S. commerce and are either listed on or exempted from the Toxic Substances Control Act (TSCA) Inventory of Chemicals in Commerce.

**OSHA Hazard Communication Standard (29 CFR 1910.1200):** This product's components meet the definition of a Health Hazard (see Sections 3 and 11) when dust is generated during fabrication.

Fire Hazard: No. Reactive Hazard: No. Release of Pressure: No. Acute Health Hazard: No. Chronic Health Hazard: Yes.

**California Proposition 65:** This product contains crystalline silica, known to the State of California to cause cancer.

**Other State Regulations:** Crystalline silica is listed as hazardous or toxic under state right-to-know laws, including but not limited to Massachusetts, New Jersey, and Pennsylvania.

Note: The hazard information in this data sheet relates to the potential hazards associated with dusts that may be produced when cutting, grinding, or polishing SURFACES BY PACIFIC products or otherwise changing the shape of the product.

## 16. Other Information

| Abbreviation | Meaning                                                   |
|--------------|-----------------------------------------------------------|
| ACGIH        | American Conference of Governmental Industrial Hygienists |
| AL           | Action Level                                              |
| IARC         | International Agency for Research on Cancer               |
| NIOSH        | National Institute for Occupational Safety and Health     |
| NTP          | National Toxicology Program                               |
| OSHA         | Occupational Safety and Health Administration             |
| PEL          | Permissible Exposure Limit                                |
| REL          | Recommended Exposure Limit                                |
| STEL         | Short Term Exposure Limit                                 |
| TLV          | Threshold Limit Value                                     |
| TWA          | Time Weighted Average                                     |

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