

Safety Data Sheet (SDS / MSDS)

Sintered Stone - Compact Surface Slabs

Prepared in accordance with GHS Rev. 8 / OSHA HazCom 2012

SECTION 1: Identification

Product Name	Sintered Stone - Compact Surface Slabs
Recommended Use	Kitchen countertops, vanity tops, flooring, wall cladding, building facades, furniture surfaces
Manufacturer/ Supplier	Ochnology Solution Pvt. Ltd.
Address	B-153, Sector-4, Defence Colony, Dehradun, Uttarakhand, India - 248001
Contact	projects@ochnology.com, bd@ochnology.com +91 9286823642/43

SECTION 2: Hazards Identification

As supplied (intact, uncut slab), Sintered Stone is a solid article and is not classified as hazardous under GHS. The hazard identified below arises specifically during dry cutting, grinding, drilling, or polishing (fabrication), which can generate airborne respirable crystalline silica (RCS) dust — a recognized occupational health hazard. This section applies to fabrication/processing operations, not to the finished, installed product.

GHS Classification:

- Carcinogenicity, Category 1A (inhalation of respirable crystalline silica generated during dry processing)
- Specific Target Organ Toxicity - Repeated Exposure (STOT-RE), Category 1 (lungs — silicosis risk from repeated dust inhalation)

Signal Word: DANGER (applies to dust generated during dry-cutting/fabrication operations only)

Hazard Statements:

- H350 - May cause cancer by inhalation (during dry processing)
- H372 - Causes damage to lungs through prolonged or repeated exposure (during dry processing)

Precautionary Statements:

- P201 - Obtain special instructions before use
- P260 - Do not breathe dust
- P271 - Use only outdoors or in a well-ventilated area, or with local exhaust ventilation
- P284 - Wear NIOSH-approved respiratory protection during dry cutting/grinding
- P308+P313 - If exposed or concerned, get medical advice/attention

SECTION 3: Composition / Information on Ingredients

Component	CAS No.	Approx. %
Crystalline Silica (Quartz)	14808-60-7	40 - 70%
Feldspar	68476-25-5	15 - 30%
Kaolin / Clay	1332-58-7	5 - 15%
Mineral / Glass Pigments	Mixture	< 10%

SECTION 4: First-Aid Measures

- Inhalation (dust): Move to fresh air. If breathing difficulty persists, seek medical attention.

- Eye contact: Flush thoroughly with clean water for several minutes; seek medical attention if irritation persists.
- Skin contact: Wash with soap and water.
- Ingestion: Not an anticipated route of exposure for a solid article; rinse mouth with water if dust ingested.

SECTION 5: Fire-Fighting Measures

- Sintered stone is non-combustible (fire rating Class A1); the slab itself does not present a fire hazard.
- Use extinguishing media appropriate to the surrounding fire.

SECTION 6: Accidental Release Measures

- Not applicable to intact slabs. For spilled fabrication dust: use HEPA-filtered vacuum collection or wet-sweeping methods.
- Do not dry-sweep or use compressed air to clean up silica dust, as this re-suspends respirable particles.

SECTION 7: Handling and Storage

- Store slabs vertically on A-frames on a level, stable surface; handle with suction cups or mechanical slab lifters.
- Use wet-cutting methods wherever possible during fabrication to suppress dust.
- Where dry-cutting is unavoidable, use tools fitted with local exhaust ventilation (LEV) and dust extraction.

SECTION 8: Exposure Controls / Personal Protection

Exposure controls below apply to fabrication/processing operations (cutting, grinding, polishing), not to the intact, installed product.

- Occupational exposure limit (respirable crystalline silica): 0.025 mg/m³ (8-hr TWA) — refer to applicable local regulation (e.g., OSHA 29 CFR 1910.1053)
- Respiratory protection: NIOSH-approved N100/P100 respirator during dry cutting, grinding, or polishing
- Eye protection: Safety glasses or goggles
- Hand protection: Cut-resistant gloves when handling raw slab edges

SECTION 9: Physical and Chemical Properties

Appearance	Solid slab, various colours/finishes
Odour	None
Water Absorption	≤ 0.1%
Density	≈ 2.3 - 2.5 g/cm ³
Solubility in Water	Insoluble

SECTION 10: Stability and Reactivity

- Stable under normal conditions of storage and use.
- Incompatible with hydrofluoric acid, which can etch/damage the surface.

SECTION 11: Toxicological Information

- No hazard from the intact, installed slab under normal use.

- Inhalation of respirable crystalline silica dust generated during dry fabrication is a recognized human carcinogen (IARC Group 1) and a cause of silicosis, a serious and irreversible lung disease, with prolonged/repeated exposure.

SECTION 12: Ecological Information

- The solid slab is not expected to present a hazard to aquatic life.
- Slurry or dust from wet-cutting operations should not be discharged untreated into waterways.

SECTION 13: Disposal Considerations

- Dispose of slab offcuts as solid construction waste per local regulations.
- Collected fabrication dust should be kept damp/contained and disposed of per local hazardous-dust waste requirements; do not dry-sweep.

SECTION 14: Transport Information

Not classified as dangerous goods for transport in intact slab form.

SECTION 15: Regulatory Information

- Respirable crystalline silica exposure is regulated in most jurisdictions (e.g., OSHA 29 CFR 1910.1053 in the United States).
- Some jurisdictions have introduced specific restrictions on engineered/sintered stone fabrication involving crystalline silica — confirm current requirements applicable to the buyer's location before fabrication.

SECTION 16: Other Information

This SDS addresses hazards associated with the fabrication/processing of Sintered Stone (cutting, grinding, drilling, polishing). The finished, installed product does not present a significant inhalation hazard under normal use conditions.

Disclaimer: Information is provided as a general guide based on available data and is subject to revision without notice. Buyers/users should conduct their own risk assessment and confirm suitability for their specific process and application.