



## MATERIAL SAFETY DATA SHEET

### Section 1: PRODUCT AND COMPANY IDENTIFICATION

**Distributor:**

Formica Corporation  
10155 Reading Road  
Cincinnati, OH 45241, USA

**Manufacturer:**

Cosentino S.A.  
APDO Correos 1  
04867 Macael (Almeria), Spain

**Company Phone Number:** 1-800-  
FORMICA™

**Medical Emergency:**

**Chemical Emergency:** Chemtrec -  
1-800-424-9300

**Manufacturer's Emergency Phone  
Number:**

011-34-950-44-41-751

**Manufacturer's Phone Number USA:**  
(651)-406-9462

**Product Name:** Formica Stone, Natural Quartz Surfacing

**Issue Date:** 05-22-2006

**Product Codes:** 9036, 9037, 9038, 9039, 9040, 9041, 9042, 9043, 9044, 9045, 9046, 9047

### Section 2: HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Appearance/Odor: Solid, marble-like slab, various colors.

**WARNING:**

Sanding, grinding, sawing, drilling, finishing or cutting of this material may generate airborne silica dust. This dust may cause eye, nose, and upper respiratory tract irritation. Prolonged exposure to excessive concentrations of crystalline silica dust can cause silicosis, a progressive debilitating lung disease. Symptoms include wheezing and a shortness of breath. Epidemiology studies suggest that prolonged exposure to airborne crystalline silica may also increase the risk of lung cancer. The risk depends on the duration and level of exposure. The risk of lung disease increases with smoking. Use of appropriate personal protection and/or engineering controls (such as wet cutting) should be employed whenever sanding, grinding, sawing, drilling, cutting, etc. of this material.

Potential Health Effects: See Section 11 for more information

Likely Routes of Exposure: Eye contact, skin contact, ingestion, inhalation

- Eye:** Dust or wet filings generated during installation or finishing could cause severe irritation (tears, blurred vision and redness). In case of eye contact with dusts or filings, rinse affected eye for a least 15 minutes with clean water. If irritation persists, call a physician.
- Skin:** Not likely to cause skin irritation in solid form. However, the dust or wet filings generated during installation or finishing may cause moderate skin irritation. Avoid prolonged skin exposure to dust and wet filings. Rinse skin with mild soap if contact occurs. If irritation persists, call a physician.
- Ingestion:** Not likely to occur but ingestion of dust or wet fillings during installation could cause irritation of the mouth, throat and stomach. If this occurs, rinse mouth with clean water. If irritation persists, call a physician.
- Inhalation:** Sanding, grinding, sawing, drilling, finishing or cutting of this material may generate airborne silica dust. This dust may cause eye, nose, and upper respiratory tract irritation. Prolonged exposure to excessive concentrations of crystalline silica dust can cause silicosis, a progressive debilitating lung disease. Symptoms include wheezing and a shortness of breath. Epidemiology studies suggest that prolonged exposure to airborne crystalline silica may also increase the risk of lung cancer. The risk depends on the duration and level of exposure. The risk of lung disease increases with smoking. Use of appropriate personal protection and/or engineering controls (such as wet cutting) should be employed whenever sanding, grinding, sawing, drilling, cutting, etc. of this material.



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### Section 2: HAZARDS IDENTIFICATION (Continued)

Medical Conditions Aggravated by Exposure:

Dust and filings may cause skin irritation to people with pre-existing skin conditions.

Target Organs: Lungs

This product contains crystalline silica which is listed by IARC as carcinogenic. The ACGIH lists silica as a suspect human carcinogen. NTP lists silica as carcinogenic.

This material contains silica which is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS #</u>	<u>% by Wt.</u>
Quartz	14808-60-7	93
Pigments and Polymer Resins	Trade Secret	7

### Section 4: FIRST AID AND MEASURES

Eye Contact	If dust or filings get into the eyes, immediately rinse affected eye for a least 15 minutes with clean water. If irritation persists, seek medical attention.
Skin Contact	If excess dust or filings get onto the skin, remove contaminated clothing and wash before reuse. Wash skin with soap and water. Seek medical attention if irritation occurs.
Ingestion	If dust or filings get into the mouth, rinse mouth with clean water. Seek medical attention if necessary.
Inhalation	If excess dust or filings are inhaled, move to fresh air. Seek medical attention if symptoms such as wheezing and/or shortness of breath occur.

### Section 5: FIRE FIGHTING MEASURES

Will not ignite under normal circumstances.

Suitable Extinguishing Media: CO<sub>2</sub>, water, foam.

Possible Products of Combustion: various hydrocarbons, oxides of carbon, carbon monoxide and water.

Protection of Firefighters: Vapors may be irritating to eyes, skin and the respiratory tract. Firefighters should wear self-contained breathing apparatus and full fire-fighting turnout gear.

### Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: review fire fighting measures in Section 5.

Methods for Clean-Up: Recover undamaged materials for reuse or reclamation.



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### Section 7: HANDLING AND STORAGE

#### Handling:

Prevent dust or filings from entering eyes. Do not breathe dust. Avoid prolonged skin contact with dust and/or filings. Cut, drill, saw, and finish, etc. in well-ventilated areas.

#### Storage:

Package and palletize slabs with appropriate banding materials. Palletize slabs securely on A-frame with appropriate banding material.

Avoid exposing to strong chemicals, solvents and keep away from excessive heat. Prolonged or extreme heat can cause damage to surface.

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### Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Exposure Guidelines:

Silica, Crystalline (Quartz) as respirable dust, 8 hour TWA

#### OSHA PEL

10 mg/mg<sup>3</sup>/%Silica + 2

#### ACGIH TLV

0.025 mg/mg<sup>3</sup>

Engineering Controls: Provide local exhaust ventilation (See ASTM E1132-86).

Eye/face Protection: Wear safety glasses when sawing, sanding, drilling or routing.

Skin Protection: Wear appropriate gloves when installing, transporting, sawing, sanding, drilling, routing or handling uninstalled pieces.

Foot Protection: Wear approved steel toed safety shoes when handling uninstalled pieces.

Respiratory Protection: Where airborne concentrations of dust or mist are expected to exceed the allowable exposures, a NIOSH-approved respirator should be worn. The respirators should be worn and chosen based on the form and concentration of the contaminant. Respirator usage must be in accordance with the OSHA Respiratory Protection Standard, 29 CFR 1910.134.

General Hygiene Considerations: Wash thoroughly after sawing, sanding, drilling or routing. Have eye-wash facilities immediately available.

Additional information is available in ASTM E1132-99a

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### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Color: Various

Odor: None

Physical State: Solid

pH: Not applicable

Freezing Point: < -25°F (< -32°C)

Boiling Point: Not applicable

Flash Point: Not applicable

Evaporation Rate: Not applicable

Flammability (solid, gas): Not applicable.

Upper Flammability Limit: Not applicable

Lower Flammability Limit: Not applicable

Vapor Pressure: Not applicable

Vapor Density: Not applicable



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### Section 9: PHYSICAL AND CHEMICAL PROPERTIES (Continued)

Specific Gravity: Not applicable  
Solubility (water): Not applicable  
Auto-ignition Temperature: Not applicable  
Percent Volatile, wt. %: 0  
Volatile Organic Compound (VOC) content, wt. %: 0

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### Section 10: STABILITY AND REACTIVITY

Stability: Stable.  
Conditions to Avoid: Avoid exposing to strong chemicals and solvents.

Incompatible Materials: Avoid spills of acids and hydroxides (i.e., sodium, potassium) onto surface of material. If spills occur, remove immediately from the material.

Hazardous Decomposition Products: None

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### Section 11: TOXICOLOGY INFORMATION

#### ACUTE EFFECTS

Oral LD<sub>50</sub>: Not Known  
Dermal LD<sub>50</sub>: Not Known  
Inhalation: See Section 2  
Eye Irritation: See Section 2  
Skin irritation: See Section 2  
Sensitization: Not expected to cause skin or respiratory sensitization based on similarities to other tested materials of similar composition.

#### CHRONIC EFFECTS

Carcinogenicity: This product contains crystalline silica which is listed by IARC as carcinogenic. The ACGIH lists silica as a suspect human carcinogen. NTP lists silica as carcinogenic. WARNING-Substance contained in this product known to the State of California to cause cancer, birth defects or other reproductive harm – Airborne Crystalline Silica.  
Mutagenicity: No data.  
Reproductive Effects: No data.  
Developmental Effects: No data.

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### Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: No data  
Persistence/Degradability: Degradation is not expected under aerobic and anaerobic conditions.  
Bioaccumulation/Accumulation: No data  
Mobility in Environment: No data

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### Section 13: DISPOSAL CONSIDERATIONS

Disposal: Preferred option for disposal is recycling. Disposal in landfill must be in accordance with federal, state and local regulations.

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### Section 14: TRANSPORTATION INFORMATION

DOT: Not Regulated



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### Section 15: REGULATORY INFORMATION

WARNING-Substance contained in this product known to the State of California to cause cancer, birth defects or other reproductive harm – Airborne Crystalline Silica.

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### Section 16 OTHER INFORMATION

#### NFPA Labeling

Health – 1    Fire – 0    Reactivity – 0

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 – extreme hazard

#### Acronyms:

ACGIH = American Conference of Governmental Industrial Hygienists®

ASTM = American Society for Testing and Materials

DOT = Department of Transportation

IARC = International Agency for Research on Cancer

NFPA = National Fire Protection Agency

NIOSH = National Institute of Occupational Safety and Health

NTP = National Toxicology Program

OSHA = Occupational Safety and Health Administration

PEL = Permissible Exposure Limit

TLV = Threshold Limit Value

TWA = Time weighted average

mg/m<sup>3</sup> = milligrams per cubic meter of air

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