

# WASHINGTON MILLS

## CERAMICS CORPORATION

### MATERIAL SAFETY DATA SHEET

#### 1.0 Chemical Product and Company Identification

**Product Name:** Ceramic Tumbling Media  
Composition F

**Chemical Name:** Not Established

**Manufacturer:** Washington Mills Ceramics Corp.  
165 King Street  
Sun Prairie, WI 53590  
(608) 837-5155 Fax (608) 837-0808

**Emergency/Technical** (716)278-6763  
**CHEMTREC** (800)424-9300

#### 2.0 Composition/Information on Ingredients

Component	CAS No.	OSHA Exposure Limits (PEL)	ACGIH Rec. Limits (TLV)
Aluminum Silicate	1332-58-7	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Magnesium Silicate Hydrate	14807-96-6	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>
Fused Crystalline Silica	60676-86-0	0.1 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>
Aluminum Oxide	1344-28-1	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Kaolinite	14940-68-2	5.0 mg/m <sup>3</sup>	5.0 mg/m <sup>3</sup>
Chromium III Oxide	1308-38-9	1.0 mg/m <sup>3</sup>	1.0 mg/m <sup>3</sup>
Manganese Dioxide (Dust)	1313-13-9	5.0 mg/m <sup>3</sup>	5.0 mg/m <sup>3</sup>
Titanium Dioxide	13463-67-7	5.0 mg/m <sup>3</sup>	5.0 mg/m <sup>3</sup>
Iron Oxide	1309-37-1	10.0 mg/m <sup>3</sup>	5.0 mg/m <sup>3</sup>
Amorphous Silica	61790-53-2	6 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Barium Oxide	7440-39-3	0.5 mg/m <sup>3</sup>	0.5 mg/m <sup>3</sup>

MSDS WP -F  
REVISION DATE 12/03

**NOTE:** Trace amounts of calcium oxide, magnesium oxide, copper, lead, zinc and vanadium may exist in this product. Manufacturing of this product includes firing the material to above 2000° F. Exposure to this temperature can change the crystal structure to for cristobalite, a greater health hazard than quartz. (ACGIH limit of 0.05 mg/m<sup>3</sup> TLA)

#### 3.0 Hazard Identification/ Potential Health Effects

**Eye:** Dust is lightly to moderately irritating. Abrasive action of dust may cause damage to outer surface of the eye.

**Skin:** Possible skin irritation. Inflammation from irritation of open cuts may occur.

**Ingestion:** Ingestion of large quantities can result in nausea and vomiting, diarrhea, liver and nervous disorders.

**Inhalation:** Dusts generated by use of this product may cause acute respiratory tract irritation. Repeated or prolonged breathing of fused silica dust may cause severe respiratory disease. Effect may include nose and throat irritation. May cause coughing or shortness of breath. Dust may aggravate chronic lung conditions such as bronchitis, emphysema and asthma. At high concentrations, may cause chemical pneumonitis.

**Chronic Effects:** This product contains crystalline silica. Airborne dusts generated during use of this product may contain respirable silica, which is a known cause of silicosis, a noncancerous lung disease. Dust may also contain cristobalite, a form of silica which can cause a severe respiratory disease, pneumoconiosis. The International Agency for Research on Cancer has classified respirable crystalline silica as a Group I carcinogen. National Toxicology Program and OSHA have listed crystalline silica as a probable carcinogen.

#### 4.0 First Aid Measures

**Eyes:** Wash with large amounts of water. Get medical attention, if needed.

**Skin:** Wash with water. Obtain first aid or medical assistance if needed.

**Ingestion:** If swallowed, seek medical attention.

**Inhalation:** Remove to fresh air, apply artificial respiration as needed. Get medical attention if needed.

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#### 5.0 Fire Fighting Measure

**Flammable Properties:** Non-flammable  
**Flash Point:** None      **Fire/Explosion Potential:** None  
**Upper and Lower Flammable Limits:** None  
**Autoignition Temperature:** None  
**Special Fire Fighting Procedures:** None

#### 6.0 Accidental Release Measures

**Personal Precautions:** Wear protective equipment. See Section 8.  
**Cleanup Measures:** If uncontaminated, recover and reuse. If contaminated, collect in suitable containers for disposal in a landfill. Avoid generating dust. Dispose according to standard landfill methods consistent with applicable Federal, State and Local laws.  
**Other Precautions:** Accumulation of forms or dust may present a spillage hazard to personnel. Promptly clean up spilled material.

#### 7.0 Handling and Storage

**Normal Storage:** General storage, ambient air temperature and pressure.  
**Handling:** Avoid generating dust in closed areas without exhaust ventilation. See OSHA 29 CFR 1910-94 (Ventilation). Do not breathe dust generated by use of this product. Use appropriate respirators or keep dust exposure below recommended TLV – PEL levels. .

#### 8.0 Exposure Controls, Personal Protection

**Engineering Control:** Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposures below PELs or TLVs.  
**Respiratory Protection:** Recommended if TLVs or PELs are exceeded. Use NIOSH/MSHA approved respirators in accordance with 29 CFR 1910.134.  
**Skin and Hand Protection:** Gloves as desired by user to prevent skin irritation.  
**Eye and Face Protection:** Use safety glasses with side shields. If there is potential for exposure to particles which could cause mechanical injury to the eye, wear goggles.  
**Other Protective Clothing or Equipment:** Clothing which minimizes skin exposure to abrasive forms or dust.

#### 9.0 Physical and Chemical Properties

**Appearance:** Grey solid form  
**Odor:** Odorless      **pH:** N/A  
**Boiling Point:** Sublimes      **Melting Point:** 2000° C  
**Flash Point:** None      **Explosive Properties:** None  
**Oxidizing Properties:** None      **Vapor Pressure:** N/A  
**Vapor Density:** N/A      **Specific Gravity:** 2.9  
**Water Solubility:** Insoluble

#### 10.0 Stability and Reactivity

**Chemical Stability:** Stable      **Incompatibility:** None  
**Polymerization:** Will not occur      **Conditions to Avoid:** N/A

#### 11.0 Toxicological Information

The dust from this product may contain crystalline silica. The International Agency for Research on Cancer has classified respirable crystalline silica as a Group I carcinogen. National Toxicology Program and OSHA have listed crystalline silica as a probable carcinogen.

#### 12.0 Ecological Information

Not Available

#### 13.0 Disposal Considerations

Dispose of in an approved landfill in accordance with all local, state and federal regulations.

#### 14.0 Transportation Information

US DOT - Not regulated as a hazardous material

#### 15.0 Regulatory Information

**TSCA** - The chemical components of this product are registered under the Toxic Substance Control Act (Title 40 CFR Part 710).

#### Section 313 Supplier Notification

This product contains substances subject to the following regulatory reporting requirements: TSCA, NTP, SARA Title III, RCRA California Proposition 65, Canada Domestic Substances Lit, Canada WHMIS D-2A Classification, EINECS #231-545-4, EEC Label, IARC Group 1. Airborne quartz particles of respirable size are known to the State of California to cause cancer.

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Manager, Environmental, Health & Safety

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