

WASHINGTON MILLS

CERAMICS CORPORATION

MATERIAL SAFETY DATA SHEET

1.0 Chemical Product and Company Identification

Product Name: Ceramic Tumbling Media
Composition ECH

Chemical Name: Not Established

Manufacturer: Washington Mills Ceramic 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 ³	10 mg/m ³
Fused Crystalline Silica	60676-86-0	0.1 mg/m ³	0.1 mg/m ³
Aluminum Oxide	1344-28-1	15 mg/m ³	10 mg/m ³
Silicon Dioxide	14808-60-7	0.1 mg/m ³	0.1 mg/m ³
Zirconium Silicate	14940-68-2	5.0 mg/m ³	5.0 mg/m ³
Chromium III Oxide	1308-38-9	1.0 mg/m ³	1.0 mg/m ³
Manganese Dioxide (Dust)	1313-13-9	5.0 mg/m ³	5.0 mg/m ³
Titanium Dioxide	13463-67-7	5.0 mg/m ³	5.0 mg/m ³
Iron Oxide	1309-37-1	10.0 mg/m ³	5.0 mg/m ³
Amorphous Silica	61790-53-2	6 mg/m ³	10 mg/m ³
Barium Oxide	7440-39-3	0.5 mg/m ³	0.5 mg/m ³

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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/m³ 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 slippage 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: Tan 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

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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.

Prepared By: Margaret A. O'Brien,
Manager, Environmental, Health & Safety

The information and recommendations set forth herein are taken from sources believed to be accurate as of the date hereof; however, Wisconsin Porcelain makes no expressed or implied warranty with respect to the accuracy of the information or the suitability of the recommendations and assumes no liability to any user thereof.

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