

**Safety Data Sheet**

May be used to comply with  
OSHA's Hazard Communication Standard,  
29 CFR 1910.1200. Standard must be  
consulted for specific requirements

**U.S. Department of Labor**

Occupational Safety and Health Administration  
(Non-Mandatory Form)  
Form Approved  
OMB No. 1218-0072

<b>Identity</b> (As used on Label and List) <b>Orton Pyrometric Cones / Bars / TempCheks / Cone Plaques/Kiln wash</b>	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.
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**Section 1 – Product Identification**

<b>Manufacturer's Name</b> The Edward Orton Jr. Ceramic Foundation	<b>Emergency Telephone Number</b> (614) 895-2663
<b>Address</b> (Number, Street, City, State, & Zip Code) 6991 Old 3C Highway, P.O. Box 2760, Westerville OH 43086 – 2760	<b>Telephone Number for Information</b> (614) 895-2663
<b>Date Prepared</b> 11-17-15	<b>Signature of Preparer</b> (Optional)

**Section 2 – Hazardous Ingredients/Identity Information**

Hazardous Components (Specific Chemical Identity: Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	(%) (Optional)
Plaques, TempCheks, TempTAB, Pyrometric Cone and Bar Numbers				
022, 021, 020, 019, 018, 017, 016, 015, 014, 013, 012, 011, 010, 09, 08, 07, 06, 05½, 05, 04, 03, 02, 01, 1, 2, 3, 4, 5, 5½, 6, 7, 8, 9, 10, 11, 12, 12½, 13, 13½, 14, 14½, 15, 15½, 16, 17, 18, 19, 20, 21, 23, 26, 27, 28, 29, 30, 31, 31½, 32, 32½, 33, 34, 35, 36 37, 38, 39, 40, 41 ( Contain 2-65% Silica)				
Silica as dust		10 mg/m <sup>3</sup>		

**Section 3 – Physical/Chemical Characteristics**

<b>Boiling Point</b>	N/A	<b>Specific Gravity</b> (H <sub>2</sub> O = 1)	1.8 – 2.0
<b>Vapor Pressure</b> (mmHg)	N/A	<b>Melting Point</b>	N/A
<b>Vapor Density</b> ( Air = 1)	N/A	<b>Evaporation Rate</b> (Butyl Acetate = 1)	N/A
<b>Solubility in Water</b> Nil			
<b>Appearance and Color</b> Solid-Shape of pyramid or rectangular shape – some products contain organic colors for aid in identification			

**Section 4 – Fire And Explosion Hazard Data**

<b>Flash Point</b> (Method Used) N/A	<b>Flammable Limits</b> N/A	<b>LEL</b> N/A	<b>UEL</b> N/A
<b>Extinguishing Media</b> N/A			
<b>Special Fire Fighting Procedures</b> All products except those labeled Fast Fire or PCE contain 4-6% organic material that will oxidize above 300°F			
<b>Unusual Fire and Explosion Hazards</b> N/A			

**Section 5 – Reactivity Data**

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>
	<b>Stable</b>	X	
<b>Incompatibility (Materials to Avoid)</b> N/A			
<b>Hazardous Decomposition or Byproducts</b> N/A			
<b>Hazardous Polymerization</b>	<b>May Occur</b>		<b>Conditions to Avoid</b>
	<b>Will not Occur</b>	X	

**Section 6 – Health Hazard Data**

<b>Route(s) of Entry:</b>	<b>Inhalation?</b> N/A	<b>Skin?</b> None Anticipated	<b>Ingestion?</b> None Anticipated
<b>Health Hazards (Acute and Chronic)</b> Product is non-hazardous when used as intended. Product should not be ground into dust or ingested. Product may contain crystalline silica, which may cause cancer, when inhaled, based on animal testing.			
<b>Carcinogenicity:</b>	<b>NTP?</b> No	<b>IARC Monographs?</b> No	<b>OSHA Regulated?</b> No
<b>Signs and Symptoms of Exposure</b> N/A			
<b>Medical Conditions Generally Aggravated by Exposure</b> N/A			
<b>Emergency and First Aid Procedures</b> If swallowed, get professional medical help			

**Section 7 – Precautions for Safe Handling and Use**

<b>Steps to be taken in Case Material is Released or Spilled</b> No specific precautions
<b>Waste Disposal Method</b> Disposal must meet existing federal, state, and local environmental control for low soluble glass frit - titanium dioxide – silica
<b>Precautions to Be Taken in Handling and Storing</b> Keep out of reach of children. Wash hands after handling.
<b>Other Precautions</b> Organic components may produce harmful gases during firing, if not fully oxidized. Also other gases may be produced during firing, therefore, provide adequate ventilation to kiln or kiln area.

**Section 8 – Control Measures**

<b>Respiratory Protection (Specify Type)</b> N/A		
<b>Ventilation</b>	<b>Local Exhaust</b> N/A	<b>Special</b> N/A
	<b>Mechanical (General)</b> N/A	<b>Other</b> N/A
<b>Protective Gloves</b> N/A	<b>Eye Protection</b> N/A	
<b>Other Protective Clothing or Equipment</b> No special requirements		
<b>Work/Hygienic Practices</b> Wash hands after handling		

**Section 9 - Physical and Chemical Properties**

**Appearance:** Pyrometric Cones are three sided elongated pyramids 1" to 2" long. Cone plaques are rectangular clay forms ranging in Length, width, and height between 3"-4"x1"x1/2". TempCheks and TempTABS are ceramic disks 1 1/8" in diameter by 1/4" thick.

**Odor:** none

**Vapor Pressure:** none

**PH:** neutral

**Melting point:** above 1000°F

**Freezing point:** none

**Flammability:** none

**Section 10 – Stability and Reactivity**

**Reactivity:** None

**Chemical Stability:** Stable

**Section 11 – Toxicological Information**

Not toxic

**Section 12 – Ecological Information**

None available

**Section 13 – Disposal Considerations**

No precautions known

**Section 14 – Transport Information**

Non-hazardous

**Section 15 – Regulatory Information**

none

**Section 16 – Other Information**

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Product resources found at [www.ortonceramic.com](http://www.ortonceramic.com)