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0300369 R,T,U,AC,AD  
0300371 R,T,U,AC,AD**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

**Identity** (As used on Label and List)**Orton Pyrometric Cones / Bars / TempCheks /  
Cone Plaques/Kiln wash**

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.

**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

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

### Section 6 – Health Hazard Data

Route(s) of Entry:	Inhalation? N/A	Skin? None Anticipated	Ingestion? None Anticipated
Health Hazards (Acute and Chronic) 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.			
Carcinogenicity:	NTP? No	IARC Monographs? No	OSHA Regulated? No
Signs and Symptoms of Exposure N/A			
Medical Conditions Generally Aggravated by Exposure N/A			
Emergency and First Aid Procedures If swallowed, get professional medical help			

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

Steps to be taken in Case Material is Released or Spilled No specific precautions
Waste Disposal Method Disposal must meet existing federal, state, and local environmental control for low soluble glass frit - titanium dioxide – silica
Precautions to Be Taken in Handling and Storing Keep out of reach of children. Wash hands after handling.
Other Precautions 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

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