



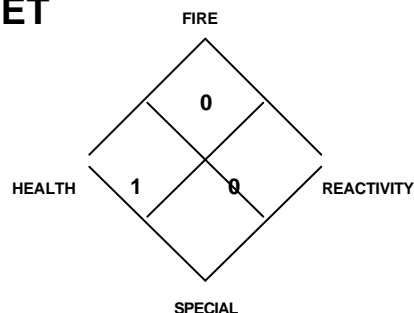
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24 Hour Response  
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## MATERIAL SAFETY DATA SHEET

### NFPA HAZARD RATING

4 EXTREME  
 3 HIGH  
 2 MODERATE  
 1 SLIGHT  
 0 INSIGNIFICANT



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**PRODUCT FAMILY:** ERICO<sup>®</sup> CERAMIC COMPONENTS  
**INCLUDES:** CRUCIBLE INSERTS, MOLD INSERTS

DATE PREPARED: 2/2/95

REVISED: 4/17/08

MSDS: 88H

### 1. INGREDIENTS

**NOTE: THIS IS A SOLID ARTICLE AND FOLLOWING DATA APPLIES ONLY IF ARTICLE IS DRY CUT OR GROUND.**

INGREDIENTS	CAS #	EXPOSURE LIMITS (Mg/m <sup>3</sup> )		WEIGHT PERCENT	TSCA INV.
		OSHA PEL	ACGIH TLV		
CRISTOBALITE	14464-46-1	TOTAL DUST: 30 Mg/M <sup>3</sup> /2 (%SiO <sub>2</sub> +2) TWA RESPIRABLE FRACTION: 0.05 Mg/M <sup>3</sup>	TWA RESPIRABLE FRACTION: 0.1 Mg/M <sup>3</sup>	NOT >15%	YES
QUARTZ, CRYSTALLINE	14808-60-7	TOTAL DUST: 30 Mg/M <sup>3</sup> /2 (%SiO <sub>2</sub> + 2) TWA RESPIRABLE FRACTION: 0.1 Mg/M <sup>3</sup>	TWA RESPIRABLE FRACTION: 0.1 Mg/M <sup>3</sup>	NOT >15%	YES
CORDIERITE	1302-88-1			NOT >55%	YES
MULLITE	1302-93-8	20 mppcf		NOT >15%	YES
ANDALUSITE	12425-68-2			NOT >5%	YES

### 2. PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: Greater than 3000°F  
 VAPOR PRESSURE: N/A  
 VAPOR DENSITY: N/A  
 SOLUBILITY IN WATER: Insoluble  
 SPECIFIC GRAVITY (H<sub>2</sub>O=1): 2.2  
 MELTING POINT: @ 3000°F  
 EVAPORATION RATE (BUTYL ACETATE=1): N/A  
 APPEARANCE AND ODOR: White/Gray

**M A T E R I A L   S A F E T Y   D A T A   S H E E T**

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**3. FIRE AND EXPLOSION HAZARD DATA**

FLASH POINT (METHOD USED): N/A  
FLAMMABLE LIMITS: LEL - N/A UEL - N/A  
EXTINGUISHING MEDIA: N/A  
SPECIAL FIRE FIGHTING PROCEDURES: N/A

UNUSUAL FIRE AND EXPLOSION HAZARD: Melting point of material is greater than 3000°F.

**4. REACTIVITY DATA**

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

**5. HEALTH HAZARD DATA**

ROUTES OF ENTRY: Primary route of entry - inhalation

HEALTH HAZARDS: This material is a solid article and has no health hazard unless caused to dust by dry cutting or grinding. Repeated/prolonged exposure to dust may cause cough, dyspnea, wheezing, and impaired pulmonary function (silicosis), with or without continued exposure.

CARCINOGENICITY: NTP - No IARC MONOGRAPHS - No OSHA REGULATED - No

SIGNS/SYMPTOMS OF EXPOSURE: Same as long exposure to any non-hazardous dust - cough, dyspnea, wheezing from acute exposure to dust. Dust can cause temporary eye irritation. Medical conditions generally aggravated by exposure: Allergies.

EMERGENCY AND FIRST AID PROCEDURES: Move exposed person to fresh air. If breathing difficult, administer oxygen, call physician. For eye contact - Flush with water. If irritation persists, call physician.

**PRODUCT FAMILY:      ERICO<sup>®</sup> CERAMIC COMPONENTS****INCLUDES: CADWELD ONE SHOT MOLDS, ONE SHOT COVERS, CRUCIBLE INSERTS, MOLD INSERTS**

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**6. PRECAUTIONS FOR SAFE HANDLING AND USE**

ACTION TO TAKE FOR SPILLS/LEAKS: Sweep or vacuum spilled solid articles. Flush fines, dust to disposal with water.

WASTE DISPOSAL METHOD: Non-hazardous, inert. May be disposed of by any convenient means, taking care to avoid dust formation.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Limit generation of respirable dust. Keep dry.  
NOTE: If solid articles become wet, use of wet components could result in spallation, fragmenting due to steam pressure, when heated.

OTHER PRECAUTIONS: Floor surfaces may become slippery/hazardous from dust.

**7. CONTROL MEASURES**

RESPIRATORY PROTECTION: NIOSH approved dust respirator when TLV is exceeded.

VENTILATION: Local Exhaust - Recommended if operations create dust.

PROTECTIVE GLOVES: Not required unless working with hot equipment.

EYE PROTECTION: Safety glasses or face shield.

WORK/HYGIENIC PRACTICES: Wash with soap/water after handling product.