

# MATERIAL SAFETY DATA SHEET

## COTRONICS 700 SERIES CASTABLE CERAMICS

RTC-60 Castable Alumina Ceramic 760 Liquid Zirconium Oxide  
RTC-70 Castable Alumina Ceramic 770 Liquid Silicon Carbide  
740 Liquid Alumina Silica 780 Liquid Alumina  
750 Liquid Fused Silica 310LF Liquid Ceramic Foam

**Manufactures Name: COTRONICS CORPORATION**

3379 Shore Parkway Brooklyn, NY 11235

Emergency Telephone Number: 718-646-7996

### SECTION ONE

**Chemical Name And Synonyms: N/A Mixture**

**Formula: N/A**

**Base (part A) : Powder**

**Chemical Family: Refractory Ceramic Composition. Proprietary Alumina, Zirconia, Silica, Silicon Carbide.**

**Activator (Part B) : Liquid**

**Chemical Family: Proprietary Water Based Colloid Composition (Alumina, Silica)**

*All materials contained within are listed on the TOSCA Inventory list.*

### SECTION 2: COMPOSITION INFORMATION

#### A. As Manufactured WT. % TVL/PEL

Base: Respirable Nuisance Dust 100 5 mg/cu m

\*

\*(1984-85 ACGIH TLV Booklet, Page 50)

### SECTION 3A: BASE (POWDER) PHYSICAL DATA

**Boiling Point (jāF) : N/A**

**Specific Gravity Range (H<sub>2</sub>O = 1) : 0.9 - 3.1**

**Vapor Pressure (mm Hg.) : N/A**

**Vapor Density (Air=1) : N/A**

**Percent Volatile by Volume (%) : N/A**

**Solubility in Water: Insoluble**

**Evaporation Rate (=1) : N/A**

**Appearance and Odor: Fine Powdered Matrix with Coarse Aggregate.**

No Odor.

### SECTION 3B: ACTIVATOR (LIQUID) PHYSICAL DATA

**Activator Supplied with**

RTC-70, 740, 750, 760, 780, 360LF

**Boiling Point (jāF) : 212**

**Specific Gravity Range (H<sub>2</sub>O = 1) : 1.25 - 2.1**

**Vapor Pressure (mm Hg.) : 24 @ 77jāF**

**Vapor Density (Air=1) : Water**

**Percent Volatile by Weight (%) : 50- 70**

**Solubility in Water: Soluble**

**Evaporation Rate (=1) : 1**

**Appearance and Odor: Opalescent liquid No Odor.**



## SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Extinguishing Media: N/A

Flash Point (Method Used) : N/A

Flammable Limit: N/A

Unusual Fire And Explosive Hazards: LEL = N/A

Special Fire Fighting Procedures: UEL = N/A

## SECTION 5: HEALTH HAZARD DATA

*Primary Route Of Entry: Inhalation.*

*Effects of Overexposure: Nuisance dust may cause Nasal, Throat or Lung irritation or discomfort May aggravate Bronchial disorders. Slight dermatological irritation after prolonged skin contact.*

*Emergency And First Aid Procedures: Flush eyes and skin with copious quantities of water. Get immediate medical attention for eyes. If swallowed, consult physician immediately.*

## SECTION 6: FIRE, EXPLOSIVE AND REACTIVITY DATA

Stability: Stable

Incompatibility (Materials to Avoid) : None

Hazardous Decomposition Products: None

Hazardous Polymerization: Will Not Occur

## SECTION 7: SPILL OR LEAK PROCEDURES

*Steps to be Taken in Case Material is Released or Spilled:*

Sweep up spilled powder and dispose in approved industrial waste container.

Hose spilled neat cement paste with water, immediately. Cement is not water soluble after setting up. Waste Disposal Method: Approved industrial waste disposal means.

## SECTION 8: SPECIAL PROTECTION INFORMATION

*Respiratory Protection (Specify Type) :*

Dust respirator in compliance with OSHA Standard currently 29 CFR 1910.134

(NIOSH approved, air purifying , half mask or full face-piece respirator with appropriate filter pad or cartridge (s)).

*Ventilation: Local Exhaust: Follow OSHA Standard 29 CFR 1910.94.*

*Mechanical (General) : Follow OSHA Standard 29 CFR 1910.94.*

## SECTION 8: SPECIAL PRECAUTIONS

This product as manufactured contains silicate which could transform upon heating to mullet and crystalbalite (a form of crystalline silica). Removal of this product after use may result in the generation of dust. Repeated inhalation of respirable free crystalline silica is derived from the formula

10 mg/cu m

$\frac{1}{2}$ (-----)#

% Respirable quartz +

\*(Reference 1984-85 ACGIH TLV Booklet, Page 34). Appropriate ventilation should be provided and protective equipment should be worn in compliance with OSHA standard currently 29 CFR 1910.134 (NIOSH approved, air purifying, half mask or full face-piece respirator with appropriate filter pad or cartridge(s)).

**Disclaimer:** The information supplied is not to be taken as a warranty or representation for which Cotronics Corp. assumes legal responsibility. It is offered solely for your consideration, investigation and verification. all risk of use, singly or in combination with other products, whether or not in accordance with the instructions, directions, or suggestions is borne by the user.

DATE PREPARED: 11/01/85 DATE REVISED: 08/5/03

ifificant 1 = Non-Toxic, Slight 2 = Moderate 3 = High 4 = Extreme