

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

- Product Name: Mullite Ceramics & Specialties
- Chemical Name: Mixture primarily aluminum silicates
- Manufacturer: Industrial Ceramic Products, Inc. 14401 Suntra Way Marysville, OH 43041 (800) 427-2278 www.industrialceramic.com sales@industrialceramic.com

Emergency:

CHEMTREC (800) 424-9300



## **SECTION 2: HAZARDS IDENTIFICATION**

Overall:	Chronic health hazard. This product contains crystalline silica. Prolonged inhalation of dust containing crystalline silica over time can cause lung disease and cancer. Avoid dust creation. Do not inhale dust from this product. Clean up with a wet method is recommended.		
Eyes:	Irritation is not common. Dust particles may scratch the eyes.		
Skin:	Irritation is not common.		
Ingestion:	Not considered a likely route of exposure under normal product use conditions.		
Inhalation:	May cause coughing and mild irritation. Prolonged inhalation of dust containing crystalline silica over time can cause lung disease (silicosis) and increase the risks of developing respiratory cancer. Silicosis can result in death from cardiac failure or the destruction of lung tissue. Aluminum silicates may also cause milder lung effects.		
Effects on Pre-E	Existing Conditions: Inhalation of dust may aggravate pre-existing respiratory conditions. People that develop silicosis are more likely to develop tuberculosis. Smoking and exposure to crystalline silica increases the risks of lung damage. Chronic obstructive pulmonary disease and autoimmune related diseases have been linked to crystalline silica exposure.		
HMIS Ratings:	Health - 0 (minimal), Fire - 0 (minimal), Reactivity - 0 (minimal)		

## **SECTION 3: COMPOSITION INFORMATION**

CAS# 1302-93-8	Mullite	75-85%
CAS# 7631-86-9	Silica, amorphous	5-10%
CAS# 14464-46-1	Silica, Cristobalite	1-5%
CAS# 1302-76-7	Kyanite	1-5%
CAS# 14808-60-7	Quartz	1-5%
014		



### **SECTION 4: FIRST-AID MEASURES**

Inhalation:	Immediate effects are not common under normal exposure. If high concentrations of dust are
	inhaled, remove to fresh air. If breathing problems arise, a certified professional should
	administer oxygen and obtain immediate medical attention.
Skin:	Non required
Eyes:	Dust particles may cause abrasion. Do not rub eyes. Rinse with lukewarm water for at least 15 minutes while opening and closing eyelids. If irritation persists, seek medical attention.
Ingestion:	No first-aid is required for small amounts. If substantial amounts are ingested, drink 4-8 ounces of water or milk to dilute and seek medical advice.

#### **SECTION 5: FIRE-FIGHTING MEASURES**

Flammability: Non-flammable or combustible Flash point: N/A Auto-ignition Temperature: N/A Suitable Extinguishing Media: N/A Unsuitable Extinguishing Media: N/A Special Hazards: N/A

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

- Do not walk through or scatter spilled material.
- Avoid generating excess dust.
- For small amounts, use wet cleanup methods or vacuum equipped with a HEPA filter.
- For large amounts, use a fine water spray to control dust generation and carefully shovel into a container for reuse or disposal.
- Cleanup personnel should wear appropriate PPE, including respiratory protection (Section 8).

### **SECTION 7: HANDLING AND STORAGE**

- Do not handle until all safety precautions have been read.
- Avoid generating dust.
- Store in a dry place.

### SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

- Avoid all unnecessary exposure to dust. If dust is generated, follow appropriate controls:

Eye Protection: Wear goggles or safety glasses with side shields.

Respiratory Protection: Under normal working conditions, below acceptable exposure guidelines, none is required. Appropriate respirator selection is dependent upon the magnitude of exposure. Wear appropriate mask in accordance with 29 CFR Part 134.



### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Physical State:	Solid
Color:	Off white to buff
Odor:	None
Molecular Weight:	
Boiling Point:	N/A
Melting Point:	N/A
Evaporation Rate:	N/A
Water Solubility:	None
Specific Gravity:	2.7 - 2.9 gms/cc
Vapor Pressure:	N/A
Vapor Density:	N/A

### SECTION 10: STABILITY AND REACTIVITY

Reactivity:Non-reactiveStability:StableConditions to Avoid:N/AIncompatible Materials:N/AHazardous Polymerization:N/AHazardous Decomposition:N/A

### SECTION 11: TOXICOLOGICAL INFORMATION

Acute Effects -

- Eye: Particulate matter may cause physical injury to the eye.
- Skin: Skin irritation is not expected.
- Inhalation: Immediate effects of dust inhalation may include coughing and minor transient respiratory irritation. Acute silicosis has been reported following exposure to extremely high crystalline silica exposures particularly when the particle size of the dust is very small.
- Ingestion: Product is relatively non-toxic.
- Chronic Effects Silicosis is a progressive fibrotic pneumoconiosis that greatly decreases the ability of the lungs to provide oxygen (decreased pulmonary capacity). Three types of silicosis have been identified. Acute silicosis can occur several weeks or months following exposure to very high levels of crystalline silica and can result in death in months or within several years. Accelerated silicosis can occur 5-10 years after exposure to higher levels of crystalline silica. Chronic silicosis is the most common type and usually occurs after 10 or more years of exposure to low levels of crystalline silica. Similar aluminum silicate minerals such as kaolin have been found to cause lung fibrosis in the absence of crystalline silica. The disease is not as severe as silicosis but can cause respiratory symptoms and changes. Crystalline silica exposure appears to enhance the severity of the disease. Amorphous silica may also have a



mild fibrotic effect. Animal studies indicate that cristobalite has a greater potential to produce fibrosis than quartz. Cristobalite produces a more severe response than quartz and fibrosis elicited is diffuse rather than nodular.

Other - Silica particles less than 10 μm are considered respirable; however, particles retained in the lungs are generally much smaller. A median diameter of particles retained in the lungs has been cited as 0.5-0.7 μm.

### SECTION 12: ECOLOGICAL INFORMATION

- This product is an ecologically inert material. It does not contain ozone depleting substances and is not expected to exert an ecotoxic effect or bioconcentrate in the food chain.

#### SECTION 13: DISPOSAL CONSIDERATIONS

- Dispose of in a safe manner in accordance with local/state/federal regulations.
- Avoid releasing into the environment.

#### **SECTION 14: TRANSPORT INFORMATION**

- Transport in accordance with DOT regulations.

### **SECTION 15: REGULATORY INFORMATION**

Canadian WHMIS Classification: D2A					
EPCRA Section 302 (EHSs):	This product does not contain ingredients subject to reporting requirements of 40 CFR Part 355, Appendices A and B (Extremely Hazardous Substances).				
CERCLA, Section 304:	This product does not contain ingredients subject to state and local reporting under Section 304 of SARA Title III as listed in 40 CFR Part 302, Table 302.4.				
SARA 313 Reporting Requireme	ents: This product does not contain ingredients subject to the reporting requirements of Section 313 SARA, and Section 6607 of the Pollution Prevention Act.				
SARA Hazard Category:	This product has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of the superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and by definition meets the requirements of the following category: Chronic Health Hazard				
California Proposition 65:	This product contains crystalline silica, an ingredient known to the State of California to cause cancer.				
TSCA (Toxic Substances Control Act): All Ingredients contained in this product are on the TSCA inventory.					



#### **SECTION 16: OTHER INFORMATION**

Preparation Date: June 1, 2015

Disclaimer/Statement of Liability:

The information contained in the Safety Data Sheet (SDS) is believed to be correct as of the date issued. Industrial Ceramic Products, Inc. MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the product is fit for a particular purpose and suitable for user's method of

use or application. Given the variety of factors that can affect the use and application of our product, some of which are uniquely within the user's knowledge and control, it is fit for a particular purpose and suitable for user's method of use or application.

Industrial Ceramic Products, Inc. provides information as a service to its customers. Due to the remote possibility that products may have resulted in errors, omissions or alterations in this information, Industrial Ceramic Products, Inc., makes no representation as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the SDS available directly from Industrial Ceramic Products, Inc.