



**SCHAEFER**  
INDUSTRIAL CERAMICS  
A T&G COMPANY

**SII Foundry Ceramics**  
Safety Data Sheet

Version: 2  
Date: 9/1/15

## 1. Product and Company Identification

### Product Identifier

Product form: Solid substance

Substance name: SII Foundry Ceramics

Common name: – Kiln Furniture

CAS No.: NA (mixture)

Formula: NA (mixture)

Synonyms: Pouring Cup, Alumina, Clay-Bonded Refractory

Intended use of the substance/mixture:

Name, Address, and Telephone of the Responsible Party:

Schaefer Industries, Inc.  
981 Postal Road  
Allentown PA 18109  
610-264-7740

Emergency telephone number: 610-264-7740

## 2. Hazard Identification

### Classification of the substance or mixture

#### Classification in accordance with 29 CFR §1910.1200 (OSHA)

During normal operation and usage, ceramic composite products are not classified as a hazardous substance. This product, under normal usage, does not present inhalation, ingestion, or other chemical hazards. However, operations such as grinding, cutting, burning, and welding of such products may release dusts, fumes, or vapors which may present health or physical hazards. Therefore, the hazards described below relate to non-routine operations or uses.

As Solid Substance: Not classified as a hazardous substance.

#### Dust/Respirable Particulate form:

Carcinogenicity (Category 1A), H350



**Label Elements, including precautionary statements**

Under normal conditions and use (as a solid substance)

**Pictogram** (as a solid substance): no pictogram

**Signal Word:** no signal word

**Hazard Statement:** no hazard statement

**Precautionary Statement:** no precautionary statement

As a dust or particulate matter in air

**Pictogram** (as a dust or particulate matter in air):



**Signal Word:** Danger

**Hazard Statements:** H350 May cause cancer

**Precautionary Statements:**

- P201 Obtain special instructions before use
- P202 Do not handle until all safety precautions have been read and understood
- P280 Wear protective gloves/clothing/eye & face protection
- P308+P313 If exposed or concerned: Get medical advice/attention
- P405 Stored locked up
- P501 Dispose of contents in accordance with state/federal requirements

**3. Hazard Identification**

**Substances**

Name	Product Identifier	%	Classification
Aluminum oxide	1344-28-1	65-85%	Not classified as a hazardous substance
Silicon dioxide (Cristobalite)	14464-46-1	0-5%	Carcinogenicity, 1A, H350
Calcined Kaolin (Mullite)	1302-93-8	30-35%	Not classified as a hazardous substance



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#### 4. First Aid Measures

**General Advice:** Consult a physician if dust is inhaled and not feeling well.

**If inhaled:** Move person to fresh air. If not breathing, attempt CPR. Consult physician immediately.

**If skin contact:** Wash off with soap and water.

**If eye contact:** Flush eyes with water as a precaution. Consult physician if necessary.

**If swallowed:** Rinse mouth with water. Consult a physician.

**Symptoms/Effects:** Described in section 2, but should not pose problem in solid form. In dust form, breathing particles can irritate the throat as a first symptom.

**Immediate Medical Attention:** No data available in solid or dust form.

#### 5. Fire Fighting Measures

**Extinguishing Media:** Not flammable in solid or dust form. In case of fire nearby, it is safe to use water spray, foam, dry chemical, or carbon dioxide.

**Special Hazards:** No data available.

**Precautions for Fire-Fighters:** No data available.

#### 6. Accidental Release Measures

**Personal Precautions/Protective Equipment/Emergency Procedures:** Use PPE in situations where dust is evident. Exposure to dust over OSHA's PEL requires a NIOSH approved respirator.

**Methods & Materials for Containment and Cleanup:** Pick up and arrange disposal without creating a dust cloud. Sweep up and shovel. Keep in suitable, closed container for disposal.

#### 7. Handling and Storage



**Precautions for Safe Handling:** Not applicable for solid object. In dust form due to grinding or processing, avoid dust cloud by sweeping slowly or using appropriate vacuum system. Where applicable, use local exhaust ventilation at places where dust is formed.

**Conditions for Safe Storage, including Incompatibles:** In dust form, keep container closed in a dry, well-ventilated location.

## 8. Exposure Controls/Personal Protection

Substance	CAS No.	OSHA PEL (mg/m <sup>3</sup> )	NIOSH REL (mg/m <sup>3</sup> )
Aluminum Oxide	1344-28-1	15 (total); 5 (respirable)	10
Silicon Dioxide	14464-46-1	30 mg/m <sup>3</sup> /(%SiO <sub>2</sub> + 2); total  10 mg/m <sup>3</sup> /(%SiO <sub>2</sub> + 2); respirable	0.05
Calcined Kaolin (Mullite)	1302-93-8	15 (total); 5 (respirable)	

**Appropriate Engineering Controls:** Handle in accordance with good industrial hygiene and safety practices. Provide ventilation where the process may generate dust (e.g., grinding, cutting, etc.).

**Personal Protective Equipment:** Not applicable when in solid form. As a dust, use the following PPE:

**Eye/Face Protection:** Use eye & face protection should flying particles be present.

**Skin Protection:** Use gloves and other body protection in relation to the handling and exposure to dust.

**Respiratory Protection:** Respiratory protection is not required under normal use. If dust is evident, use type N95 NIOSH approved respirators for protection at levels up to about 60 mg/m<sup>3</sup>.

## 9. Physical and Chemical Properties

<b>Appearance:</b> Hard ceramic solid object (normal use)	<b>Flammability (solid/gas):</b> No data available
<b>Odor:</b> No data available	<b>Upper/Lower Flammability Limits:</b> No data available



<b>Odor Threshold:</b> No data available	<b>Vapor Pressure:</b> No data available
<b>pH:</b> No data available	<b>Vapor Density:</b> No data available
<b>Melting Point/Freezing Point:</b> ~2,500°F for MP. No data available for FP.	<b>Relative Density:</b> ~2.5 to 2.9 g/cc
<b>Initial Boiling Point &amp; Boiling Range:</b> No data available	<b>Solubility:</b> No data available
<b>Flash Point:</b> No data available	<b>Partition Coefficient:</b> No data available
<b>Evaporation Rate:</b> No data available	<b>Auto-Ignition Temperature:</b> No data available
<b>Decomposition Temperature:</b> No data available	<b>Viscosity:</b> No data available

## 10. Stability and Reactivity

**Reactivity:** No data available

**Chemical Stability:** No data available

**Possibility of Hazardous Reactions:** No data available

**Conditions to Avoid:** No data available to suggest static discharge, shock or vibration effects

**Incompatible Materials:** No data available

**Hazardous Decomposition Products:** No data available

## 11. Toxicology Information

**There are no known toxicological (health) effects for the typical use of this product. If a dust is generated due to grinding, cutting or processing, some data is available regarding the substances in the mixture.**

**Likely Routes of Exposure (as dust):**



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Inhalation: No data available

Ingestion: No data available

Skin: No data available

Eye: No data available

**Symptoms (as dust):** No data available

**Delayed & Immediate Effects (as dust):** No data available

**Toxicity Measures (as dust):** See ingestion above.

**Carcinogen Potential (as dust):**

NTP: (14464-46-1) Known to be a human carcinogen.

IARC: (7631-86-9) Group 3; Not classifiable as to its carcinogenicity to humans.

(14464-46-1) Group 1; Carcinogenic to humans.

## **12. Ecological Information**

**Ecotoxicity:** No data available

**Persistence and Degradability:** No data available

**Bioaccumulative:** No data available

**Mobility in Soil:** No data available

**Other Adverse Effects:** No data available

## **13. Disposal Considerations**

Handle and dispose of used product or dust from processing in a safe manner in accordance with federal and state environmental laws.

## **14. Transport Information**

Product or dust from processing is not a regulated substance under the DOT.

## **15. Regulatory Information**



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This product, as typically used, is not regulated under federal or state environmental laws. As a dust due to processing such as grinding or cutting, see the following information:

SARA 302: No substance in this product is subject to the requirements of this section.

SARA 313: (1344-28-1) Yes

SARA 311/312: No substance in this product is subject to the requirements of this section.

## **16. Other Information**

Prepared on October 20, 2004

Revised on September 1, 2015

The information contain in this Safety Data Sheet is believed to be correct but does not purport to be all inclusive. It should be used as a guide.

The information in this safety data sheet is based on the best available information to Schaefer Industries and our knowledge of the product. It does not guarantee the properties of the product. Schaefer Industries shall not be held liable for any damage resulting from handling the above product.