

Ransom & Randolph

1. Product and Company Name

<i>Product Name</i> SII-Foundry Ceramics (pour cups)	<i>MSDS Code Number</i> 286
<i>Trade Name & Synonyms</i>	<i>Date of Last Revision</i> 09/03
<i>Chemical Name</i>	<i>Manufacturer/Supplier</i> Ransom & Randolph
<i>C.A.S. Number</i>	<i>Address</i> 3535 Briarfield Blvd, Maumee, OH 43537
<i>Grades or Minor Variant Identities</i>	<i>Information Telephone Number</i> 419/865-9497 FAX 419/865-9997
<i>Product Use</i>	<i>Emergency Telephone Number</i> 419/865-9497

2. Composition

<u>Hazardous Components</u>	<u>C.A.S. Number</u>	<u>%</u>
No known hazardous components		

3. Hazardous Identification*Emergency Overview*

If physically changing by abrasion, cutting, crushing, or other action, avoid breathing the dust. An OSHA approved dust mask should be used when cutting or crushing refractory material. Burns may occur if hot refractories are handled. Use tongs or wear fire protective gloves when handling hot refractories.

<i>Routes of Exposure</i>	<i>Signs & Symptoms</i>	<i>Single, Repeated, or Lifetime Exposure</i>	<i>Severity (Mild, Moderate, Severe)</i>	<i>Acute and Chronic Health Effect(s)</i>	<i>Target Organ(s)</i>
<i>Eye</i>					
<i>Skin</i>					
<i>Inhalation</i>					
<i>Ingestion</i>					
<i>Other</i>					

Medical Conditions Aggravated by Exposure

N/A

Carcinogenicity (IARC, NTP)

N/A

*Potential Environmental Effects***4. First Aid Measures**

<i>Routes of Exposure</i>	<i>First Aid Instructions</i>	<i>Immediate Medical Attention</i>	<i>Delayed Effects</i>
<i>Eye</i>	If dust or chip gets into eyes flush with palatable water 15 minutes. If irritation persists, consult a physician.		

<i>Skin</i>			
<i>Inhalation</i>			
<i>Ingestion</i>			
<i>Other</i>			
<i>Note to Physicians (Treatment, Testing, and Monitoring)</i>			
5. Fire-fighting Measures			
<i>Flashpoint: (Method)</i> N/A	<i>Flammable (Explosive) Limits in Air</i> LEL: UEL:		<i>Autoignition Temperature:</i>
<i>Flame Propagation or Burning Rate (for solids):</i>	<i>Properties Contributing to Fire Intensity</i>	<i>Flammability Classification NFPA Rating:</i>	
<i>Extinguishing Media</i> Ceramic refractory material will not burn		<i>Extinguishing Media to Avoid</i>	
<i>Protection and Procedures for Firefighters:</i>			
<i>Unusual Fire and Explosion Hazards:</i> No fire or explosive hazard known.			
6. Accidental Release Measures			
<i>Containment Techniques</i>			
<i>Spill/Leak Clean-Up Procedures and Equipment</i>			
<i>Evacuation Procedures</i>			
<i>Special Instructions</i>			
<i>Reporting Requirements</i>			
7. Handling and Storage			
<i>Handling Practices and Warnings</i> No hazard to persons or environment known. Clean up and salvage or dispose.			
<i>Storage Practices and Warnings</i> Store in dry area. Stack or handle material so that it will not fall. Do not double stack pallets.			
8. Exposure Controls/Personal Protection			
<i>Ventilation</i>	<i>Other Engineering Controls</i> As required to control dust during cutting.		
<i>Routes of Entry:</i>	<i>Personal Protective Equipment (PPE) for Normal Use:</i>		<i>PPE for Emergencies:</i>
<i>Eye/Face</i>	Nuisance dust mask OSHA approved if cutting or grinding.		
<i>Skin</i>	Protective gloves when handling hot refractories.		
<i>Inhalation</i>			

<i>General Hygiene Considerations and Work Practices</i>			
<i>Other Protective Measures and Equipment</i>			
9. Physical and Chemical Properties			
<i>Appearance</i> White fired hard ceramic.		<i>Odor</i> None	
<i>Normal Physical State:</i>		<i>Boiling Point</i>	N/A
<i>Liquid</i>	<i>Gas</i>	<i>Melting Point</i>	N/A
<i>Solid</i>	X	<i>Freezing Point</i>	N/A
<i>Specific Gravity or Density (H₂O=1)</i> 2.5 – 2.9 gms/cc		<i>Solubility in Water</i> None	
<i>Vapor Pressure (mm Hg.)</i> N/A		<i>Vapor Density (AIR = 1)</i> N/A	
		<i>pH</i>	
		<i>Evaporation Rate (Butyl Acetate=1)</i>	
<i>Other</i>			
10. Stability and Reactivity			
<i>Incompatibility (Materials to Avoid)</i> No known incompatibilities			
<i>Hazardous Products Produced During Decomposition</i> Will not occur			
<i>Hazardous Polymerization?</i> N/A	<i>May Occur</i>	<i>May Not Occur</i> X	<i>Conditions to Avoid</i> N/A
<i>Stability?</i>	<i>Stable</i>	<i>Unstable</i> X	<i>Conditions to Avoid</i>
11. Toxicological Information			
<i>Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic Effects, Reproductive Effects, or Structure Activity Data</i>			
12. Ecological Information			

Toxicity, Environmental Fate, Physical/Chemical Data, or Other Data Supporting Environmental Hazard Statements

No hazard to persons or environment known. Clean up and salvage or dispose.

13. Disposal Considerations

Regulations

Dispose of according to federal, state, and local requirement.

Properties (Physical/Chemical) Affecting Disposal

14. Transport Information

Regulated for shipping?

Yes No

Proper Shipping Name

Packing Group

Do changes in quality, packaging, or shipment method change product classification?

Yes No

Hazard Class

Identification Number

Other

15. Regulator Information

Federal Regulations

International Regulations

Other

16. Other Information

The information set forth herein has been gathered from standard reference materials and/or Ransom & Randolph Company test data and is, to the best knowledge and belief of Ransom & Randolph Company accurate and reliable. Such information is offered solely for your consideration, investigation and verification and it is not suggested or guaranteed that the hazard precautions or procedures mentioned are the only ones which exist. Ransom & Randolph

Company makes no warranties, express or implied, with respect to the use of such information or the use of the specific material identifies here in combination with any other material or process, and assumes no responsibility therefore.