

## Safety Data Sheet

### Castable Refractory Cement

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#### PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** Castable Refractory Cement  
**SDS Number:** 2  
**Product Code:** 600, 601, 601D  
**Revision Date:** 10/6/2021  
**Version:** 1  
**Chemical Family:** Calcium Silicates  
**Product Description:** High-Heat, High Strength Castable Cement  
**Product Use:** Casting, Fire Brick repair

**Supplier Details:** Rutland  
7 Crabtree Road  
Jacksonville, IL 62650

**Contact:** Faith Nergenh, Brian Miller  
**Phone:** 217-245-7810  
**Fax:** 217-245-1194  
**Email:** faith@rutland.com bmill@rutland.com  
**Web:** www.rutland.com  
**Emergency:** CHEMTREC (800) 424-9300

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#### HAZARDS IDENTIFICATION

##### Classification of the Substance or Mixture

###### GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Health, Carcinogenicity, 1 A  
Health, Specific target organ toxicity - Repeated exposure, 2

##### GHS Label Elements, Including Precautionary Statements

**GHS Signal Word:** DANGER

**GHS Hazard Pictograms:**



###### GHS Hazard Statements:

H350 - May cause cancer.  
H373 - May cause damage to organs ( state all organs affected, if known) through prolonged or repeated exposure.

###### GHS 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/protective clothing/eye protection/face protection.  
P308 + P313 - IF exposed or concerned: Get medical advice/ attention.  
P405 - Store locked up.  
P501 - Dispose of contents/container according to all local, state and federal regulations.

##### Hazards not Otherwise Classified (HNOC) or not Covered by GHS

**Route of Entry:** Eyes; Skin; Inhalation;  
**Target Organs:** Respiratory system  
**Inhalation:** Respiratory tract irritation may occur with exposure to a large amount of material.  
**Skin Contact:** May cause irritation.  
**Eye Contact:** May cause irritation.  
**Ingestion:** Ingestion is not an applicable route of entry for intended use. May be harmful if swallowed.

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#### COMPOSITION/INFORMATION OF INGREDIENTS

Chemical Ingredients:		
CAS#	%	Chemical Name:
65997-15-1		Portland cement
13397-24-5		Gypsum
1317-65-3		Limestone
14808-60-7		Silica, crystalline

Percentages withheld, Trade secret.

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#### FIRST AID MEASURES

- Inhalation:** Remove to fresh air. Seek medical attention if cough or other symptoms develop or persist.
- Skin Contact:** Wash with plenty of water. Get medical attention if irritation develops or persists.
- Eye Contact:** Immediately flush eyes with plenty of water. After initial flushing, remove contact lenses and continue flushing for at least 15 minutes. If effects occur, consult a physician, preferably an ophthalmologist. May cause injury due to mechanical action.
- Ingestion:** Do not induce vomiting. Seek immediate medical attention.

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#### FIRE FIGHTING MEASURES

- Flash Point:** None
- Flash Point Method:** Not Applicable
- Burning Rate:** Not Applicable
- Autoignition Temp:** Not Applicable, does not ignite.
- LEL:** Not Applicable
- UEL:** Not Applicable
- Use any standard agent - choose the one most appropriate for type of surrounding fire.

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#### ACCIDENTAL RELEASE MEASURES

Sweep up, place in bag and hold for waste disposal.

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#### HANDLING AND STORAGE

- Handling Precautions:** Avoid contact with eyes, skin, or clothing. Avoid prolonged and repeated contact with skin. Wash thoroughly after handling. Keep away from food and drinking water.
- Storage Requirements:** Store in cool/dry area.

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#### EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering Controls:** A system of local and/or general exhaust is recommended to keep employee exposures as low as possible.
- Personal Protective Equipment:** Exhaust ventilation; In poorly ventilated areas you must wear a supplied air respirator. Usage of safety glasses/ goggles is recommended. Wear protective clothing, including long sleeves and gloves, to prevent skin contact.

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#### PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Gray-brown	<b>Odor:</b>	Odorless
<b>Physical State:</b>	Powdered Solid	<b>Molecular Formula:</b>	Not Available
<b>Odor Threshold:</b>	Not Available	<b>Solubility:</b>	Insoluble in water
<b>Particle Size:</b>	Not Available	<b>Softening Point:</b>	Not Available
<b>Spec Grav./Density:</b>	Not Available	<b>Percent Volatile:</b>	Not Available
<b>Viscosity:</b>	Not Available	<b>Heat Value:</b>	Not Available
<b>Saturated Vapor Concentration:</b>	Not Available	<b>Freezing/Melting Pt.:</b>	Not Available
<b>Boiling Point:</b>	Not Available	<b>Flash Point:</b>	Not Available
<b>Flammability:</b>	Not Available	<b>Octanol:</b>	Not Available
<b>Partition Coefficient:</b>	Not Available	<b>Vapor Density:</b>	Not Available
<b>Vapor Pressure:</b>	Not Available	<b>VOC:</b>	Not Available
<b>pH:</b>	Not Available	<b>Bulk Density:</b>	Not Available
<b>Evap. Rate:</b>	Not Available	<b>Auto-Ignition Temp:</b>	Not Available
<b>Molecular weight:</b>	Not Available	<b>UFL/LFL:</b>	Not Available
<b>Decomp Temp:</b>	Not Available		

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#### STABILITY AND REACTIVITY

<b>Reactivity:</b>	This product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical Stability:</b>	Product is stable under normal conditions.
<b>Conditions to Avoid:</b>	Contact with incompatible materials
<b>Materials to Avoid:</b>	Strong Oxidizing Agents
<b>Hazardous Decomposition:</b>	No hazardous decomposition products are known.
<b>Hazardous Polymerization:</b>	Will not occur.

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#### TOXICOLOGICAL INFORMATION

No data available.

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#### ECOLOGICAL INFORMATION

No information available

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#### DISPOSAL CONSIDERATIONS

Dispose of this product in accordance with all applicable local, state and federal regulations.

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#### TRANSPORT INFORMATION

Not Regulated

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#### REGULATORY INFORMATION

RQ (CAS#) Substance - Reg Codes

Portland cement (65997-15-1) MASS, OSHAWAC, PA, TSCA, TXAIR

Gypsum (13397-24-5) OSHAWAC, PA, TXAIR

Limestone (1317-65-3) MASS, OSHAWAC, PA, TSCA, TXAIR

Silica, crystalline (14808-60-7) GADSL, MASS, NRC, OSHAWAC, PA, PROP65, TSCA, TXAIR



#### WARNING

This product can expose you to chemicals including Silica, Crystalline, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Regulatory Code Legend

MASS = MA Massachusetts Hazardous Substances List

OSHA WAC = OSHA Workplace Air Contaminants

PA = PA Right-To-Know List of Hazardous Substances

TSCA = Toxic Substances Control Act

TXAIR = TX Air Contaminants with Health Effects Screening Level

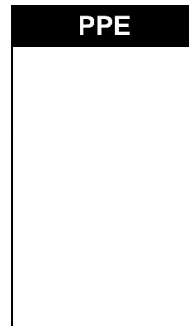
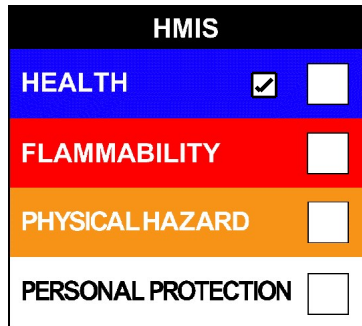
GADSL = Global Automotive Declarable Substance List (GADSL)

NRC = Nationally Recognized Carcinogens

PROP65 = CA Prop 65

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#### OTHER INFORMATION



PREPARED BY: Brian Miller

MANUFACTURER DISCLAIMER: The information presented herein is believed to be accurate but is not warranted. Recipients are advised to confirm in advance that the information is current, applicable and suitable to their circumstances.

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