

A. P. GREEN INDUSTRIES, INC.  
GREEN BOULEVARD, MEXICO, MO. 65265  
TELEPHONE NUMBER -- 314-473-3626

SECTION I

PRODUCT NAME: GREENSET-94-P R-6010

PRODUCT TYPE: Refractory Mortar

CHEMICAL FAMILY: SiO<sub>2</sub> = Trace Al<sub>2</sub>O<sub>3</sub> = 92-95% FORMULA: Not Applicable  
Fe<sub>2</sub>O<sub>3</sub> = Trace Na<sub>2</sub>O = <1%  
P<sub>2</sub>O<sub>5</sub> = 5-7%

SECTION IIPRODUCT HAZARDOUS INGREDIENTS

<u>CHEMICAL</u>	<u>TLV-TWA</u>	<u>CAS #</u>
Alumina (Al <sub>2</sub> O <sub>3</sub> ) (<95%)	10 mg/m <sup>3</sup> * Total Dust	1344-28-1
Quartz (SiO <sub>2</sub> ) (<2%)	0.1 mg/m <sup>3</sup> * Respirable Dust	14808-16-7
Phosphoric Acid (<10%)	1 mg/m <sup>3</sup> *	7664-38-2**

\* Source: American Conference of Governmental Industrial Hygienists, 1992-1993.

\*\*This product contains phosphoric acid, CAS No. 7664-38-2, which is reportable under Section 313 of Title III of SARA and 40 CFR Part 372. For purposes of reporting environmental discharge use 8% phosphoric acid content.

SECTION IIIPHYSICAL DATA

SOLUBILITY IN WATER: Nil

SPECIFIC GRAVITY: 2.8 MELTING POINT: Not Applicable

APPEARANCE AND ODOR: White to gray granular paste; no odor. pH: 2 - 3

SECTION IVFIRE AND EXPLOSION HAZARD DATA

FLASH POINT: None

EXTINGUISHING MEDIA: Not Combustible

SPECIAL FIRE FIGHTING PROCEDURES: None

UNUSUAL FIRE AND EXPLOSION HAZARDS: The phosphoric acid present if heated to decomposition will emit toxic fumes of PO<sub>3</sub>.

SECTION VHEALTH HAZARD DATAEFFECT OF OVEREXPOSURE:

EYES: ACUTE: Dust or aggregate particles can cause mechanical irritation. Phosphoric acid can cause eye injury.  
CHRONIC: Unknown.

SKIN ACUTE: Can cause mechanical abrasion. Phosphoric acid can cause skin injury.  
CHRONIC: Unknown.

INHALATION: ACUTE: Dust, if present, may cause upper respiratory irritation.  
CHRONIC: Dust may cause lung damage if inhaled on a long-term basis.

INGESTION: ACUTE: Unknown.  
CHRONIC: Unknown.

Section V (continued)

EMERGENCY AND FIRST AID PROCEDURES:

EYES: Immediately flush eyes with water for 15 minutes. Obtain prompt medical attention.

SKIN: Wash exposed areas promptly. Consult physician if irritation occurs.

INHALATION: Remove to fresh air. Seek medical attention.

INGESTION: Contact physician immediately. Do not induce vomiting unless instructed to do so by a physician.

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SECTION VI

REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY: None known

HAZARDOUS POLYMERIZATION: Will not occur

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SECTION VII

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Shovel up and place in a container.

WASTE DISPOSAL METHOD: May be disposed of in an approved landfill, in accordance with local, state, and federal regulations.

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SECTION VIII

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Use NIOSH approved respirator when working around dried material or when removing this product after service.

VENTILATION: General mechanical ventilation is adequate.

EYE PROTECTION: Goggles or safety glasses with side shields should be worn.

OTHER PROTECTION: Use of rubber gloves and long-sleeved and long-legged clothing protects hands, arms, and legs from skin contact. Safety shoes should be worn to protect feet from accidentally dropped containers of mortar.

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SECTION IX

SPECIAL PRECAUTIONS

Since this product contains phosphoric acid, toxic  $PO_{x}$  fumes can be formed on burn in.

Warning: This product contains crystalline silica. Prolonged exposure to dust may cause silicosis, a progressive pneumoconiosis, or other respiratory diseases. International Agency for Research on Cancer (IARC) has classified crystalline silica as a Class 2A carcinogen. Their study concluded that sufficient evidence for carcinogenicity exists in experimental animals and that limited evidence for carcinogenicity exists in humans.

NIOSH approved respirators should be worn any time that refractories are torn out after service. While some respiratory hazard and or nuisance dust may exist from the product itself, other foreign substances may warrant additional precautions during tearout and disposal.

This material safety data sheet contains confidential proprietary information and is not to be disclosed to the general public or to competition except as required by law. The information accumulated herein is believed to be accurate but is not warranted to be, whether originating with A. P. Green Industries, Inc. or not. This information is offered solely for use in your evaluation of this product in respect to safety, health, and environmental hazards.

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