



M A T R I X
REFRACTORIES, INC.

REV: N/A

18720

MATERIAL SAFETY DATA SHEET

Manufacturer: Matrix Refractories, Inc.
218 N. Laflin St.
Chicago, Illinois 60607

Telephone: 312-733-6199
Emergency: 312-733-6199

PRODUCT TYPE: Refractory Plastic

PRODUCT TRADE NAMES:	Matriphos 70AC	Matrikote 70AC
	Matriphos 70AC Fine	Matrikote 90AC
	Matriphos 85AC	Matrikote Z77
	Matriphos Techkote	Matrivibe 85P
	PS Super Plastic	Matribond Super

SECTION I-PRODUCT IDENTIFICATION

Chemical Name: High Alumina, refractory plastic

Chemical Family: $\text{Al}_2\text{O}_3\text{-SiO}_2$

SECTION II-CHEMICAL COMPOSITION

<u>INGREDIENTS</u>	<u>C.A.S. NUMBER</u>
Calcined Fireclay	66402-68-4
Silica	7631-86-9
Alumina	1344-28-1
Phosphoric Acid	7664-38-2

<u>Hazardous Ingredients</u>	<u>TLV (units)</u>	<u>P.E.L.</u>
Silica	0.10 mg./m ³	0.10 mg/m ³

SECTION III-PHYSICAL DATA

Appearance and Odor: Gray to dark gray; damp, no odor

Solubility in Water: Insoluble Melting Point: N/A

SECTION IV-FIRE AND EXPLOSION DATA

Product is non-flammable and will not support combustion.

Unusual Fire and Explosion Hazards: Phosphoric acid if heated to decomposition will emit toxic fumes of PO_x .

SECTION-V HEALTH HAZARD DATA

Effects of Overexposure:

<u>Eyes</u>	Acute: Dust of aggregate particles can cause mechanical irritation. Phosphoric acid may cause eye injury.
	Chronic: None known.
<u>Skin</u>	Acute: Can cause mechanical abrasion. Phosphoric acid can cause skin injury.
	Chronic: None known.
<u>Inhalation</u>	Acute: Dust, if present, may cause respiratory irritation.
	Chronic: Dust may cause lung injury if inhaled on a long term basis.
<u>Ingestion</u>	Acute: Unknown
	Chronic: Unknown

Emergency and First Aid Procedures:

<u>Eyes</u>	Immediately flush eyes with water for 15 minutes. Consult physician if irritation occurs.
<u>Skin</u>	Wash with soap and water. Treat abrasions using normal first aid procedures.
<u>Inhalation</u>	Remove to fresh air. Seek medical attention.
<u>Ingestion</u>	Contact physician immediately. Do not induce vomiting unless instructed by physician.

SECTION VI-REACTIVITY DATA

Stability: Material is stable Incompatibility: None known
Hazardous Polymerization: Will not occur

SECTION VII-SPILL AND LEAK PROCEDURES

Spill: Sweep, shovel up or pick up. Avoid dust generation.
Disposal: Dispose in approved landfill according to local, state, or federal regulations.

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 leather gloves and long sleeve and long legged clothing protects hands, arms, and legs from skin contact or abrasion. Safety shoes should be worn to protect feet from accidentally dropped blocks of plastic.

SECTION IX-SPECIAL PRECAUTIONS

Since this product contains phosphoric acid, toxic 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 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 precautions during tearout and disposal.