

**Material Safety Data Sheet**  
**PhosPlus® Diffusion Sources**



Techneglas, Inc.  
2100 N. Wilkinson Way  
Perrysburg, OH 43551

**I. Product Information**

**Product Name:** PhosPlus® (TP-250, 72XX; TP-470 71XX)  
**Synonyms:** Phosphorous Solid Diffusion Source  
**Chemical Family:** Mixture  
**Chemical Formula:** N/A  
**CAS Number:** N/A  
**DOT Shipping Number:** N/A  
**DOT Shipping Name:** Other Ceramic Articles  
**DOT Hazard Class:** N/A  
**EPA Hazardous Waste ID Number:** N/A

**II. Chemical Ingredients**

	Percentage	ACGIH-TLV (Mg/m <sup>3</sup> )	OSHA-PEL (Mg/m <sup>3</sup> )
Lanthanum Phosphate	0-95*		5 (Respirable) 15 (Total)
Tantalum Oxide	0-30*	5, as Ta	5 (Respirable) 15 (Total)
Aluminum metaPhosphate	0-60*		5 (Respirable) 15 (Total)
Aluminum Oxide	5-20*		5 (Respirable) 15 (Total)

**III. Physical Properties**

**Boiling Point:** N/A  
**Melting Point:** N/A

**Vapor Pressure (mmHg):** N/A  
**Solubility in Water:** N/A  
**Vapor Density (Air =1):** N/A  
**Specific Gravity:** 3.0  
**Percent Volatile by Volume:** N/A  
**pH:** N/A  
**Appearance & Odor:** White solid, no odor.

#### **IV. Reactivity Data**

**Stability:** Stable  
**Incompatible Materials:** None  
**Hazardous Decomposition Products:** Phosphoric Acid  
**Conditions to Avoid:** N/A

#### **V. Fire and Explosion Data**

**Flash Point:** N/A  
**Lower Explosive Limit:** N/A  
**Upper Explosive Limit:** N/A  
**Extinguishing Media:** Select for surrounding materials.  
**Special Firefighting Procedures:** Wear pressure demand self-contained breathing apparatus in conjunction with appropriate personal protective equipment.  
**Unusual Fire and Explosion Hazards:** This product is non-combustible.

#### **VI. Health Hazard Information**

**Primary Routes of Exposure:** Inhalation.  
**Signs and Symptoms of Overexposure:** Overexposure is only possible if the material is ground into finely divided particles and suspended in air. Under these conditions, upper respiratory congestion, dyspnea, chest pain, cough and decreased vital capacity may result.  
**Medical Conditions Aggravated by Exposure:** Prolonged or repeated exposure may aggravate pre-existing respiratory or cardiovascular system conditions.  
**Listing as a Carcinogen:** This material is not listed as a carcinogen by the NTP, IARC, or OSHA.

#### **VII. Emergency First Aid Procedures**

**Inhalation:** Remove to fresh air. Seek medical attention.  
**Ingestion:** Consult physician. Gastric lavage may be necessary.  
**Eye Contact:** Immediately flush eyes for 15 minutes with large amounts of water, occasionally lifting upper and lower lids. If irritation persists, seek medical attention.  
**Skin Contact:** Wash the affected area with soap and water. Seek medical attention if irritation persists.

#### **VIII. Control Measures**

**Engineering Controls:** General ventilation recommended under normal conditions of use. If active dust and/or fume generation occurs, local ventilation is recommended.

**Work/Hygiene Practices:** Avoid inhalation of dusts and/or fumes. If necessary, wear NIOSH/MSHA approved respiratory protection for dusts, mists, and fumes.

**Personal Protective Equipment:**

Respiratory Protection: If necessary, wear NIOSH/MSHA approved respiratory protection for dusts, mists, or fumes.

Eye/Face Protection: Recommended.

Skin Protection: Recommended to prevent skin irritation.

**IX. Storage and Disposal Information**

**Spill or Leak Procedures:** Clean up spilled material into a closed container using a high efficiency vacuum. Avoid dust generation.

**Disposal Methods:** Dispose of in accordance with local, state, or federal regulations.

**Handling and Storage Precautions:** Store in a cool, dry location.

**X. Manufacturer/Supplier Information**

**Prepared by:** Terry Richardson

**Date:** Aug 22, 2006

**Revision Date:** Aug 22, 2006

**24-Hour Emergency Telephone Number:** 614-443-6551

**General Information Number:** 419-873-2000

**Manufacturer's Contact:** Bill Blessing

**CHEMTREC:** (U.S.) 800-424-9300  
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