

MATERIAL SAFETY DATA SHEET

FURNACE (INSULATION ELEMENTS)

1 - IDENTIFICATION

Manufacturer: KerrLab
Address: 1717 West Collins Avenue
City, State, Zip: Orange, CA 92867
Telephone: 1-800-KERR-123
24-Hour Emergency: Chemtrec 1-800-424-9300
International 1-703-527-3887
Date Prepared: September 6, 2005

2 - COMPOSITION INFORMATION

Hazardous Ingredients

	<u>CAS #</u>	<u>PEL</u>	<u>TLV</u>	<u>%</u>
Silicate Thermal Insulation		5mg/m ³	10mg/m ³	50
Inorganic ceramic, silica		0.05mg/m ³	0.05mg/m ³	50

3 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: N/A
Specific Gravity (H₂O = 1): 0.5 - 1.0

Vapor Pressure (mm Hg): N/A

Melting Point: >2300 °F

Vapor Density (AIR = 1): N/A

Solubility in Water: Insoluble

Appearance and Odor:

Furnace insulation: Off-white, odorless solid

Furnace identity: InsulTHERM 900, Inlay '666', '999', '14 x 3' Electro-Melt

4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): N/A

Flammable Limits: LEL: N/A **UEL:** N/A

Extinguishing Media: Not Applicable

Special Fire Fighting Procedures: None

5 - REACTIVITY DATA

Stability: Stable

Conditions to Avoid: Temperatures in excess of 2300 °F

Incompatibility (Material to Avoid): None

Hazardous Decomposition Products: Crystalline Silica

Hazardous Polymerization: Will not occur

6 - HEALTH HAZARD DATA

Routes of entry:

Skin: Furnace insulation: May cause temporary irritation.

Eyes: Furnace insulation: May cause temporary irritation.

Inhalation: Furnace insulation: **WARNING**

This furnace(s) contains refractory ceramic insulation which can produce respirable fibers and dust when handled. After service, refractory ceramic fiber dust may contain crystalline silica. Prolonged exposure to respirable crystalline silica may cause chronic lung injury (silicosis). Acute-developing silicosis may occur in a short time in heavy exposure. Silicosis is a form of disabling pulmonary fibrosis which can be progressive and may lead to death. The International Agency for Research on Cancer (IARC) reports sufficient evidence of carcinogenicity of crystalline silica to humans. IARC Group 1. IARC classifies ceramic fiber as 2B (possible carcinogenic to humans).

Ingestion: N/A

Carcinogenicity -

NTP: No

IARC Monographs: Yes

OSHA Regulated Carcinogen: Yes

7 - EMERGENCY FIRST AID PROCEDURES

Skin: Wash exposed areas with soap and water.

Eyes: Flush eyes with copious amounts of water for 15 minutes. Seek medical attention.

Inhalation: Remove to fresh air. Drink water to clear throat and blow nose to evacuate dust.

Ingestion: N/A

8 - PRECAUTIONS FOR SAFE HANDLING & USE

Steps to be taken in case material is released or spilled: Use a high efficiency particulate air (HEPA) vacuum. Avoid unnecessary stirring or handling in order to prevent formation of dust. Use a dust suppressant. Use a (HEPA) filtered respirator.

Waste Disposal Method: Landfill

Precautions to be taken in handling and storing: Health hazard from insulation-elements may be present when those components are exposed or disturbed as to release respirable dust.

Other precautions: Use according to direction.

Furnaces: InsulTHERM 900, Inlay, '666', '999', '14 x 3', Electro-Melt.

9 - CONTROL MEASURES

Respiratory Protection (Specify Type): Use an ANSI Z88.2-1980 approved respirator with a (HEPA) dust cartridge when servicing, cleaning or replacing insulation/elements.

VENTILATION:

Local Exhaust: Use sufficient natural or mechanical ventilation to keep dust below PEL.

Mechanical (General): See above

Special: HEPA filtered ventilation.

Protective Gloves: Not normally required, but use of cotton gloves is recommended (optional).

Eye Protection: Safety glasses unless cutting, chipping or grinding, in which case goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, smock, long sleeve shirt or other outerwear.

Work/Hygiene Practices: Handle in accordance with good personal hygiene and safety practices. These practices include avoiding unnecessary exposure. Wash hands thoroughly after handling insulation/elements.

10 - TRANSPORTATION INFORMATION

Not DOT regulated.

11 - SPECIAL INFORMATION

HMIS (Hazardous Material Identification System) Rating:
H2 F0 R0

[HMIS Index: 4 - Severe Hazard; 3 - Serious Hazard;
2 - Moderate Hazard; 1 - Slight Hazard; 0 - Minimum Hazard]