

# MATERIAL SAFETY DATA SHEET

## KERRCAST 2000

Investment Powder

### 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>
Cristobalite	14464-46-1	0.05mg/m <sup>3</sup>	0.05mg/m <sup>3</sup>	25-35
Quartz	14808-60-7	0.1mg/m <sup>3</sup>	0.1mg/m <sup>3</sup>	40-45
Calcium Sulfate Hemihydrate	7778-18-9	5mg/m <sup>3</sup>	10mg/m <sup>3</sup>	25-30

### 3 - PHYSICAL AND CHEMICAL PROPERTIES

**Boiling Point:** N/A  
**Specific Gravity (H<sub>2</sub>O = 1):** 2.4  
**Vapor Pressure (mm Hg):** N/A  
**Melting Point:** N/A  
**Vapor Density (AIR = 1):** N/A  
**Solubility in Water:** Slightly soluble  
**Reactivity in Water:** N/A  
**Appearance and Odor:** Off- white, odorless powder

### 4 - FIRE AND EXPLOSION HAZARD DATA

**Flash Point (Method Used):** N/A  
**Flammable Limits:** LEL: N/A UEL: N/A  
**Extinguishing Media:** N/A  
**Special Fire Fighting Procedures:** N/A  
**Unusual Fire and Explosion Hazards:** N/A

### 5 - REACTIVITY DATA

**Stability:** Stable  
**Conditions to Avoid:** None  
**Incompatibility (Material to Avoid):** Hydrofluoric acid, in which silica will dissolve and produce the corrosive gas silicon tetrafluoride.  
**Hazardous Decomposition Products:** N/A  
**Hazardous Polymerization:** Will not occur

### 6 - HEALTH HAZARD DATA

#### Routes of Entry:

**Skin:** May cause dry feeling on skin.

**Eyes:** May cause irritation.

**Inhalation:** 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 the carcinogenicity of crystalline silica to humans. IARC Group 1. Kerr Corporation accepts no responsibility and disclaims all liability for harmful health effects and customers must comply with all applicable health and safety regulations relating to the safe handling of our silica-containing products.

**Ingestion:** Hardens when wetted and, if ingested, may result in an obstruction.

**Carcinogenicity -** NTP: No

**IARC Monographs:** Yes **OSHA Regulated Carcinogen:** Yes

### 7 - EMERGENCY FIRST AID PROCEDURES

**Skin:** Wash with soap and water. Use hand lotion.

**Eyes:** Wash eyes immediately with large amounts of water, lifting lower and upper lids occasionally. If irritation persists, get medical attention.

**Inhalation:** Move exposed person to fresh air at once. Consult physician.

**Ingestion:** Consult physician

### 8 - PRECAUTIONS FOR SAFE HANDLING & USE

**Steps to be taken in case material is released or spilled:** Ventilate area of spill or release. Sweep up. Avoid unnecessary stirring or handling in order to prevent formation of dust.

**Waste Disposal Method:** Landfill

**Precautions to be taken in handling and storing:** Do not breathe dust. Keep container closed. Use according to directions.

**Other precautions:** Follow prescribed mixing procedure for Kerr investment.

### 9 - CONTROL MEASURES

**Respiratory Protection (Specify Type):** Use NIOSH-approved equipment. Also see ANSI Standard Z88.2-1980, "Practices for Respiratory Protection".

#### VENTILATION:

**Local Exhaust:** Use sufficient local exhaust to reduce the level of respirable crystalline silica to the PEL.

**Mechanical (General):** May be sufficient

**Protective Gloves:** Protective gloves recommended

**Eye Protection:** Eye goggles

**Other Protective Clothing or Equipment:** N/A

**Work/Hygiene Practices:** Handle in accordance with good personal hygiene and safety practices. Avoid unnecessary exposure.

### 10 - TRANSPORTATION INFORMATION

Not DOT regulated.

### 11 - SPECIAL INFORMATION

**HMIS (Hazardous Material Identification System) Rating:**

H3 F0 R0

[HMIS Index: 4 - Severe Hazard; 3 - Serious Hazard;

2 - Moderate Hazard; 1 - Slight Hazard; 0 - Minimum Hazard]

**Note:** This MSDS was prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200) and is to be used only for this product. The information in this MSDS is, to the best of our knowledge, believed to be accurate.