



**Section 4- First Aid Measures**

**Eye Contact:** Flush product from eyes using large amounts of water. If irritation continues, seek medical attention.

**Skin Contact:** Not Applicable.

**Inhalation:** If exposed to excessive levels of dusts or vapors during heating, remove victim to fresh air. Seek medical attention if coughing or other symptoms persist.

**Ingestion:** As shipped, product not likely to be ingested; but if it occurs, do not induce vomiting. Product is non-toxic as supplied, but its abrasive nature may damage internal organs.

**Section 5 – Fire Fighting Measure**

**Flash Point:** Not Applicable

**Flammable Limits:** Not Applicable

**LEL:** Not Applicable

**UEL:** Not Applicable

**Autoignition Temperature:** Not Applicable

**Extinguishing Media:** As appropriate for surrounding fire.

**Fire Fighting Instructions:** As appropriate for surrounding fire.

**Fire Fighting Equipment:** Fire fighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus (SCBA) and full protective clothing (bunker gear) when fighting fires.

**Hazardous Combustion Products:** None

**Flame Propagation or Burning Rate of Solid Material:** Not Applicable

**Flammability Classification (As defined by 29 CFR 1910.1200):** Not Flammable

**Section 6 – Accidental Release Measures**

If dusts are generated during the spill, these should be collected by gently sweeping the material into a dustpan or collecting with a vacuum device. All personnel engaged in cleanup operations should adhere to the instructions outlined in Section 8 for personal protection. Disposal of wastes from cleanup operations should be carried out in accordance with the guidelines outlined in Section 13.

**Section 7 – Handling and Storage**

**Handling:** Follow good housekeeping and hygienic practices.

**Storage:** None

**Section 8 – Exposure Control/Personal Protection**

**Engineering Controls:** Process enclosures, local exhaust ventilation, or other engineering process controls may be necessary to keep any air contaminants associated with this product within their TLV's. This is particularly true if user operation generates dust.

**Respiratory Protection:** Since this product is a proprietary mixture of unique ingredients, it does not have an established limit for airborne concentration (PEL or TLV), which workers can routinely be exposed to without suffering adverse health effects. This MSDS is prepared to alert customers and other users to the various components of the product and their relative quantity and toxicity in the product as it is provided. The user must review his/her own circumstances and then determine what is required to establish a respiratory protection program that meets OSHA 1910.134 requirements. If workplace conditions warrant respiratory protection, use MSHA/NIOSH approved units as listed in the current 29 DFR 1910.134 for the existing conditions. Some type of respiratory protection is recommend for even the best conditions. Actual respirator selection should be made after consultation with a competent health and safety professional.

**Eye Protection:** Industrial type safety glasses or goggles with side shields offer some protection. Goggles or full face-piece respirators offer more protection.

**Protective Gloves** As needed to prevent direct skin contact.

**Other Protective Clothing or Equipment:** Wear clothing designed to limit direct exposure to product or dusts associated with product. If clothing becomes contaminated, it should be laundered before wearing again. Barrier skin creams may be applied to parts of the body not otherwise protected, if workers find this beneficial. Maintain good personal hygiene. Wash hands thoroughly before eating or drinking.

### Section 9 – Physical and Chemical Properties

**Appearance:** Granular Powder, Earthy Color  
**Odor:** Earthy Odor  
**Water Solubility:** Slight  
**Density (H<sub>2</sub>O=1):** 2.6  
**% Volatile (By Weight):** 0

**Vapor Pressure (mm Hg):** Not Applicable  
**Vapor Density (Air=1):** Not Applicable  
**pH (10% solids):** 4-6  
**Boiling Point (°C):** Not Applicable  
**Melting Point:** Not Applicable  
**Evaporation Rate:** Not Applicable

### Section 10 – Stability and Reactivity

**Chemical Stability:** This product is stable under normal and/or anticipated conditions for shipping, storage and installation.

**Conditions to Avoid:** None

**Incompatible Material:** None

**Hazardous Decomposition or Combustion Products:** None

**Hazardous Polymerization:** Not Applicable

**Reactivity:** None

### Section 11 – Toxicological Information

	LD <sub>50</sub>	CD <sub>50</sub>
Crystalline Silica		
Cristobalite	No Data	No Data
Tridymite	No Data	No Data
Quartz	No Data	No Data
<b>Target Organs</b>		
Crystalline Silica		
Cristobalite	Respiratory	
Tridymite	Respiratory	
Quartz	Respiratory	
<b>Long Term Toxicity</b>		
Crystalline Silica		
Cristobalite	Repeated and prolonged inhalations may cause lung disease (Silicosis)	
Tridymite	Repeated and prolonged inhalations may cause lung disease (Silicosis)	
Quartz	Repeated and prolonged inhalations may cause lung disease (Silicosis)	
<b>Short Term Toxicity</b>		
Crystalline Silica		
Cristobalite	Repeated and prolonged inhalations may cause lung disease (Silicosis)	
Tridymite	Repeated and prolonged inhalations may cause lung disease (Silicosis)	
Quartz	Repeated and prolonged inhalations may cause lung disease (Silicosis)	

### Section 12 – Ecotoxicological Information

**Accidental Release:** No information has been developed regarding the ecotoxicity or environmental fate of this product.

### Section 13 – Disposal Considerations

**Waste Disposal Method:** The as-manufactured refractory or dust from this material is not considered a hazardous waste as defined by 40 CFR 261. However, used product (and dusts generated during maintenance and tear-out operations) may be contaminated with other hazardous substances from the particular application (for example, metals). Therefore, appropriate waste analysis may be necessary to determine proper disposal. A qualified environmental professional in accordance with applicable federal, state, and local regulations should determine waste characterization and disposal/treatment methods.

**Section 14 – Transport Information**

**DOT (Department of Transportation) Classification under 49 CFR 172.101:** Not Regulated

**UN (United Nations) Number:** Not Applicable

**NA (North American) Number:** Not Applicable

**Section 15 – Regulatory Information**

Resco Products, Inc. considers this product to be hazardous as defined by the OSHA Hazardous Communications Standard (29 CFR 1910.1200). Section 2 chemicals, which must be addressed, and the summary of regulatory and other lists upon which they appear are:

<b>Ingredient</b>	<b>CAS Number</b>	<b>List (s)</b>
Aluminum Silicate	12141-46-7	4
Alumina	1344-28-1	1,2,3,4
Crystalline Silica		
Cristobalite	14464-46-1	1,2,3,4
Tridymite	15468-32-3	1,2,3,4
Quartz	14808-60-7	1,2,3,4

The lists are as follows:

1. ACGIH TLV "Threshold Limit Values" (1997)
2. OSHA Air Contaminants – Permissible Exposure Limits (1989)
3. Canadian Domestic Substances List
4. EPA TSCA Chemical Inventory List (1992)

WHMIS Hazard Class (Canada): D2A

SARA Title III:

Section 302 Extremely Hazardous: None

Section 313 Toxic Chemicals: See Section 2

**Section 16 – Other Information**

This information and recommendations set forth herein are taken from sources believed to be accurate as of the date herein; however, Resco Products, Inc. makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.