

## MATERIAL SAFETY DATA SHEET

Resco Products, Inc.  
Penn Center West  
Building 2, Suite 430  
Pittsburgh, PA 15276  
Emergency Telephone No.: 412-494-4491

Prepared By: Research & Development  
Telephone No: 336-299-1441 Ext. 20  
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### **Section 1- Product Name**

**Material Name:** Hydrous Aluminum Silicate  
**Intended Use:** Clay  
**Product Name:** Redart Clay  
**Brand Code:** 0278

### **Section 2- Composition And Information On Hazardous Ingredients**

<b>Ingredient</b>	<b>CAS No.</b>	<b>% Weight</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>	<b>SEC 313</b>
Crystalline Silica (Total)	Not Applicable	10-20	Not Applicable	Not Applicable	No
Cristobalite	14464-46-1		0.05mg/m <sup>3</sup> Respirable	0.025mg/m <sup>3</sup> Respirable	
Tridymite	15468-32-3		0.05mg/m <sup>3</sup> Respirable	Withdrawn	
Quartz	14808-60-7		0.1 mg/m <sup>3</sup> Respirable	0.025 mg/m <sup>3</sup> Respirable	

**Notes:** The PEL and TLV values shown above are 8-hour time-weighted averages, unless otherwise specified.

### **Section 3- Hazards Identification**

**Emergency Overview:** No unusual fire or spill hazard. Dust may be irritating to skin, eyes, and mucous membranes.

**Primary Route(s) of Entry for Particulate:** **Eye:** Yes **Skin:** Yes **Inhalation:** Yes **Ingestion:** No

**Potential Adverse Health Effects:**

<b>Acute:</b>	Eye: May irritate and/or abrade eyes
	Skin: May irritate skin
	Inhalation: Dust of this product may be irritating to respiratory tract.
<b>Chronic:</b>	Eye: None known
	Skin: None known
	Inhalation: Prolonged or repeated inhalation of dusts of this product in excess of the stated PEL or TLV may cause lung disease (silicosis). According to the International Agency for Research on Cancer (IARC), there is sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica in the form of quartz or cristobalite from occupational sources.

**Carcinogenicity:** Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (IARC Group 1, NTP).

**California Proposition 65:** This product contains crystalline silica, a chemical known to the State of California to cause cancer.

**Signs and Symptoms of Overexposure:** Coughing can result from overexposure to dust.

**Medical Conditions Generally Aggravated by Exposure to Particles:** Pre-existing diseases or other conditions of the lungs, skin, eyes, and mucous membranes.

### **Section 4- First Aid Measures**

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

**Skin Contact:** Wash product from skin using soap and water, if irritation continues, seek medical attention.

**Inhalation:** If exposed to excessive levels of dust remove victim to fresh air. Seek medical attention if coughing or other symptoms persist.

**Ingestion:** As shipped, product is not likely to be ingested, but if it occurs, do not induce vomiting. Seek medical attention.

### **Section 5- Fire Fighting Measures**

**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 dust pan 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 to the guidelines outlined in Section 13.

**Section 7- Handling And Storage**

**Handling:** Avoid direct contact with product or dust from product by wearing protective clothing, using approved respiratory protection, and wearing gloves of the impermeable type.

**Storage:** The product should be stored in a dry location. Pallet protection such as shrink-wrap or stretch-wrap should be kept in place until the product is required.

**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 the user operation generates dust, vapors, or mist.

**Respiratory Protection:** 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 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 CFR 1910.134 for the existing conditions. Some type of respiratory protection is recommended even for the best conditions. Actual respirator selection should be made after consultation with a competent health and safety professional.

**Eye Protection:** Industrial-type safety glasses offer some protection, goggles offer more.

**Protective Gloves:** Use as needed to prevent direct skin contact.

**Other Protective Clothing or Equipment:** Wear clothing designed to limit direct exposure to product, or dust, vapors, or mist associated with product. If clothing becomes contaminated, it should be laundered before wearing again. Maintain good personal hygiene. Wash hands thoroughly before eating or drinking.

**Section 9- Physical and Chemical Properties**

<b>Appearance:</b> Granular Powder, Earthy Color	<b>Vapor Pressure:</b> Not Applicable
<b>Odor:</b> Earthy Odor	<b>Vapor Density:</b> Not Applicable
<b>Water solubility:</b> Slight	<b>pH:</b> 4-6
<b>Density (H<sub>2</sub>O=1):</b> 2.6	<b>Boiling Point:</b> Not Applicable
<b>% Volatile (By Weight @ 1800°F):</b> 0	<b>Melting Point:</b> Greater than 2,000°F

**Section 10- Stability And Reactivity**

**Chemical Stability:** This product is stable under normal conditions of shipping, storage, and installation.

**Conditions to avoid:** None

**Incompatible Materials:** None

**Hazardous Decomposition:** None

**Hazardous Polymerization:** None

**Reactivity:** None

**Section 11- Toxicological Information**

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

Tridymite Quartz	Repeated and prolonged inhalations may cause lung disease (silicosis). Repeated and prolonged inhalations may cause lung disease (silicosis).
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**Section 12- Ecological Information**

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

**Section 13- Disposal Considerations**

**Waste Disposal Method:** This material is not considered a hazardous waste as defined by 40 CFR 261. However, used product (and dust 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. Waste characterization and disposal/treatment methods should be determined by a qualified environmental professional in accordance with applicable federal, state, and local regulations.

**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:

INGREDIENT	CAS NUMER	LIST
Crystalline Silica	Not Applicable	
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" (2010)
2. OSHA Air Contaminates- Permissible Exposure Limits
3. Canadian Domestic Substance List
4. EPA TSCA Chemical Inventory List

**WHMIS Hazard Classification (Canada):** D-2A

**SARA Title III:** Section 311/312 Hazardous Categories: Irritant

**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.



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 Laguna Clay Company  
 14400 Lomas Ave  
 City of Industry, CA 91746  
 1-800-4Laguna  
 info@lagunaclay.com  
 www.lagunaclay.com