MATERIAL SAFETY DATA SHEET

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Section 1 – Product Name

Common Name: **Hydrous Aluminum Silicate**
Intended Use: **Clay**
Brand Code: **0171, 0172**
Product Name: **Goldart Clay**

Section 2 – Composition and Information on Ingredients

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

Section 3 – Hazards Identification

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

Primary Route(s) of Entry for Particulate:

Inhalation: Yes
Skin: Yes
Other: No
Ingestion: No

Potential Adverse Health Effects:

Acute
Eye: Dusts of this product may irritate and/or abrade eyes
Skin: None Known.
Inhalation: Dusts of this product may be irritating to respiratory tract.

Chronic
Eye: None Known
Skin: None Known
Inhalation: Prolonged breathing of dust 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 (GROUP 1 IARC, NTP).

California Proposition 65: This product contains crystalline silica, 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 disease 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: 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. Seek medical attention.

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: The product should be stored in a dry location with stretch or shrink wrap left in place before use.

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: 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 offer some protection, goggles 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. 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 (H2O=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: Greater than 2000F

Section 10 – Stability and Reactivity

Chemical Stability: This product is stable under normal 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

	LD50	CD50
Crystalline Silica		
Cristobalite	No Data	No Data
Tridymite	No Data	No Data
Quartz	No Data	No Data
Target Organs		
Crystalline Silica		
Cristobalite	Respiratory	
Tridymite	Respiratory	
Quartz	Respiratory	

Long Term Toxicity

Crystalline Silica	
Cristobalite	Repeated and prolonged inhalations may cause lung disease
Tridymite	Repeated and prolonged inhalations may cause lung disease
Quartz	Repeated and prolonged inhalations may cause lung disease

Short Term Toxicity

Crystalline Silica	
Cristobalite	Repeated and prolonged inhalations may cause lung disease
Tridymite	Repeated and prolonged inhalations may cause lung disease
Quartz	Repeated and prolonged inhalations may cause lung disease

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 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:

Ingredient	CAS Number	List (s)
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.