

SDS prepared by Steve Davis of Aardvark Clay & Supplies

GHS - United States

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## Section 1. Product and Company Identification

contact@aardvarkclay.com

Not applicable

**Product Name:** CTG13 G-Matt 3 Synonym: Ceramic Glaze - dry Supplier/ Aardvark Clay & Supplies Manufacturer: 1400 East Pomona St. Santa Ana, Ca. 92705 USA 714-541-4157 phone 714-541-2021 fax

**Emergency Phone Number:** 911

**Product Use:** Pottery Manufacturing **Restrictions on use:** 

## Section 2. Hazards Identification

GHS/H 2012 L	lazcom abels	GHS/Hazcom 2012 Classifications:				
<u> </u>		Health:				
		CARCINOGENICITY (Inhalation) - Category 1A (quartz) (	See Secti	on 11 for carcinogen listings)		
		SPECIFIC TARGET ORGAN TOXICITY (Repeated Exposure) (respiratory tract) (inhalation) - Category 1 (quartz)				
		SPECIFIC TARGET ORGAN TOXICITY (Single Exposure) (	respirato	ry tract) (inhalation) - Category 3 (quartz)		
		ACUTE TOXICITY (Oral) - Category 4 (barium carbonate)	)			
		<b>EYE IRRITANT</b> - Category 2A (quartz, rutile)				
		SKIN IRRITANT - Category 2 (quartz, rutile)				
- L		Environmental:				
	79	ACUTE HAZARD TO THE AQUATIC ENVIRONMENT - Category 1 (zinc oxide)				
1		CHRONIC HAZARD TO THE AQUATIC ENVIRONMENT - Category 1 (zinc oxide)				
Signal	Word:	Physical:				
Dan	nger	Not Hazardous				
Hazard	Statem	ents:				
Health	ı:					
H302	Harmful	if swallowed.	H335	May cause respiratory irritation		
H316 Causes mild skin irritation.		H350 May cause cancer.				
H372 Causes damage to organs (lungs) through prolonged or repeated			d exposure (inhalation).			
Enviro	nmental		Physic	al:		
H400	Very tox	ric to aquatic life.	Not hazardous			
H410	H410 Very toxic to aquatic life with long-lasting effects.			]		

Precau	ution Statements:		
Prever	ntion		
P201	Obtain special instructions before use.	P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/spray.	P273	Avoid release to the environment.
P264	Wash hands thoroughly after handling.	P270	Do not eat, drink, or smoke when using this product.
P272	Contaminated clothing should not be allowed out of the workplace.	P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284	[In case of inadequate ventilation] wear respiratory protection.		
Respo	nse		
P314	Get medical advice/attention if you feel unwell.	P391	Collect Spillage.
P308+ P313	If exposed or concerned: Get medical advice/attention.	P304+ P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+	IF IN EYES: Rinse cautiously with water for several minutes.	P301+	IF SWALLOWED: Call a POISON CENTER or doctor/physician if
P351+	Remove contact lenses if present and easy to do – continue	P312+	you feel unwell. Rinse mouth.
P338	rinsing.	P330	
P302+	IF ON SKIN: Wash with plenty of soap and water.	P301+	IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.
P352		P330+	
		P331	



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# Section 2. Hazards Identification

Precau	Precaution Statements:						
Storage			Disposal				
P402 Store in a dry place.		P501	1 Dispose of contents/container in accordance with				
P403	P403 Store in a well ventilated place.			local/regional/national/international regulation	ons.		
P404	Store in a closed container.						
P405	Store locked up.						
P233 Keep container tightly closed.							
Hazard	Hazards not otherwise classified: Slippery when wet.		% of in	gredients with unknown acute toxicity:	None known.		

### Section 3. Composition / Information on Ingredients

Substance/Mixture:

Mixture – A trade secret claim is made for this glaze.

Chemical		CAS Number	Ingredients	Chemical % of Mixture
Quartz, (Crystalline Silica)	SiO2	CAS # 14808-60-7	Feldspar, Whiting, Ball Clay	<10
Kaolinite	Al2O3.2SiO2.2H2O	CAS # 1332-58-7	Ball Clay	<10
Calcium Carbonate	CaCO3	CAS # 1317-65-3	Limestone (Whiting)	<10
Zinc Oxide	ZnO	CAS # 1314-13-2	Zinc Oxide	<10
Barium Carbonate	BaCo3	CAS # 513-77-9	Barium Carbonate	<20
Titanium Dioxide	TiO2	CAS # 13463-67-7	Rutile	<2

### Section 4. First-Aid Measures

Description of first-aid Measures:					
First-aid measures general	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical attention.				
First-aid measures after inhalation	Move victim to well ventilated area. If mechanical discomfort persists, seek medical attention.				
First-aid measures after skin contact	Remove contaminated clothing. Wash affected area with soap and warm water.  Obtain medical attention if irritation persists.				
First-aid measures after eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking, or redness persists.				
First-aid measures after ingestion	Rinse mouth. Do NOT induce vomiting. Small amount unlikely to be toxic by ingestion.  If large amount ingested or if discomfort persist, drink two glasses of water and seek medical attention.				
Most Important Symptoms and Effects, Bo	th Acute and Delayed:				
Symptoms/injuries	Causes damage to organs through prolonged or repeated exposure (inhalation).				
Symptoms/injuries after inhalation May cause cancer by inhalation. Dust from this product may cause irritation to the respi					
Symptoms/injuries after skin contact	Prolonged contact with large amounts of dust may cause mechanical irritation.				
Symptoms/injuries after eye contact	Prolonged contact with large amounts of dust may cause mechanical irritation.				
Symptoms/injuries after ingestion	If a large quantity has been ingested, intestinal blockage and/or gastro-intestinal irritation may result.				
Chronic symptoms	Repeated or prolonged exposure to respirable crystalline silica dust may cause lung damage in the form of silicosis. Symptoms will include progressively more difficult breathing, cough, fever, and weight loss. Acute silicosis can be fatal.				

If exposed or concerned, get medical advice and attention.

### Section 5. Fire-Fighting Measures



### National Fire Protection Association (U.S.A.)

Suitable extinguishing media	This product is not combustible. Use extinguishing media appropriate for surrounding fire.		
Unsuitable extinguishing media	No restrictions on extinguishing media for this mixture.		
Special hazards arising from the substance or mixture	This mixture is not flammable and does not support fire		
Hazardous thermal decomposition products	This mixture does not contain hazardous decomposition products.		
Special protective actions for fire-fighters	Product can become slippery when wet.		
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment.		

## Section 6. Accidental Release Measures

Use of personal precautions	Avoid inhalation of dust. Wear a N-95 face mask when cleaning up dust.		
Emergency procedures	There are no emergency procedures required for this mixture.		
Methods and Materials for containment	There are no special spill measures that apply for this mixture.		
Clean up procedures	For dusts, use a vacuum to clean up spillage. If appropriate, use gentle water spray to wet down and minimize dust generation. Place waste in a sealed container.		



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### Section 7. Handling & Storage

Precautions for safe handling	Keep bags out of direct sunlight. Do not expose dry glaze to moisture until use. Do not			
	expose liquid glaze to freezing. Use proper lifting techniques to avoid physical injury.			
Recommendations on the conditions for safe storage	Store locked up in a dry location.			

Section 8. Exposure (	Controls / Person	al Protection
Chemical	CAS Number	Occupational Exposure Limits
Quartz,(Crystalline Silica)	CAS#14808-60-7	ACGIH TLV: TWA 0.025 mg/ m³ (respirable)
SiO2		OSHA PEL: TWA 10 mg/m³/ divided by the value "%SiO2" + 2 (respirable)
		OSHA PEL: TWA 30 mg/m³/ divided by the value "%SiO2" + 2 (total dust)
		CAL OSHA PEL: TWA .05 mg/ m³ (respirable)
		CAL OSHA PEL: TWA .3 mg/ m³ (total)
Kaolinite	CAS#1332-58-7	ACGIH TLV: TWA 2 mg/ m³ (respirable) / particulate matter containing no
Al2O3.2SiO2.2H2O		asbestos and <1% crystalline silica (respirable)
		OSHA PEL: TWA 5 mg/m³ (respirable)
		OSHA PEL: TWA 15 mg/m³ (total)
		CAL OSHA PEL: TWA 2 mg/ m³ (respirable)
		CAL OSHA PEL: TWA not established (total)
Calcium Carbonate	CAS# 1317-65-3	ACGIH TLV: Not Established
CaCO3		OSHA PEL: TWA 5 mg/m <sup>3</sup> (respirable)
		OSHA PEL: TWA 15 mg/m³ (total)
		CAL OSHA PEL: TWA 5 mg/ m³ (respirable)
		CAL OSHA PEL: TWA 10 mg/ m <sup>3</sup> (total)
Zinc Oxide	CAS # 1314-13-2	ACGIH TLV: TWA 2 mg/ m <sup>3</sup>
ZnO		OSHA PEL: TWA 5 mg/m³ (respirable)
		OSHA PEL: TWA 15 mg/m³ (total)
		CAL OSHA PEL: TWA not established
Barium Carbonate	CAS# 513-77-9	ACGIH TLV: TWA 3 mg/ m <sup>3</sup> (respirable) (as Ba)
BaCO3		OSHA PEL: TWA 0.5 mg/ m³ (total dust) (as Ba)
Titanium Dioxide	CAS # 13463-67-7	ACGIH TLV: TWA 10 mg/ m³ (respirable)
TiO2		OSHA PEL: TWA 15 mg/m <sup>3</sup>
		CAL OSHA PEL: TWA 5 mg/ m³ (respirable)
		CAL OSHA PEL: TWA 10 mg/m³ (total)

**Appropriate engineering controls:** When mixing dry glazes, use local exhaust ventilation or other engineering controls as required to maintain exposures below applicable occupational exposure limits (TLV).

#### Recommendations for personal protective measures

**Local Exhaust:** When mixing glazes, use sufficient local exhaust to reduce the level of respirable dust to the applicable standards set forth in Section III - ACGIH "Industrial Ventilation, A Manual of Recommended Practice," latest edition.

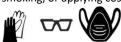
Respiratory Protection: Dust is generated when working with dry glaze. To minimize exposure to dust and/or crystalline silica(quartz), the mixing of dry glaze materials should be conducted with sufficient ventilation. Respirable dust and quartz levels should be monitored regularly. Dust and quartz levels in excess of appropriate exposure limits should be reduced by feasible engineering controls, including (but not limited to) wet suppression, ventilation, and process enclosure. When such controls are not feasible, NIOSH/MSHA approved respirators must be worn in accordance with a respiratory protection program which meets OSHA requirements as set forth at 29 CFR1910.134 and ANSI Z88.2-1080 - "Practices for Respiratory Protection".

In most cases, a disposable N-95 Particulate Respirator is sufficient.

**Eye Protection:** Use NIOSH/OSHA approved safety glasses with side shields. Face shields can also be used when mixing dry glaze. Wear tight fitting dust goggles when excessively (visible) dusty conditions are present or are anticipated. NIOSH recommends that contact lenses not be worn when working with crystalline silica dust. **Skin Protection:** Use gloves and/or protective clothing if abrasion or allergic reactions are experienced.

Work/Hygienic Practices: Avoid creating and breathing dust. Wear NIOSH/MSHA approved dust mask when working in dust conditions - (N-95). Food, beverages, and smoking materials should NOT be in the work area. Persons using ceramic materials should wash thoroughly before eating, drinking, smoking, or applying cosmetics.

**Protective Clothing Pictograms** 



N-95 face mask



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# Section 9. Physical & Chemical Properties

Physical State	Powder
Appearance	Tinted Powder
Odor	None
Odor Threshold	Not Applicable
pH	6-8
Solubility in Water	None
Melting Point	> 1300 °C (>2380°F)
Freezing Point	<0 °C (<32°F)
Specific Gravity / Relative Density	2.35 g/cc
Evaporation Rate	No data available
Flash Point	Not Applicable
Auto-Ignition Temperature	Not Applicable
Decomposition Temperature	Not Applicable
Flammability	Not Applicable
Vapor Pressure	Not Applicable
Vapor Density	Not Applicable
Explosive Limits	Not Applicable
Viscosity	Not Applicable
Partition Coefficient: n-octanol/water	Not Applicable
Initial Boiling Point & Boiling Range	Not Applicable

## Section 10. Stability & Reactivity

Reactivity	Hazardous reactions will not occur under normal conditions.		
Chemical stability	Stable at standard temperature and pressure. No stabilizers required to maintain chemical stability.		
Possibility of hazardous reactions	Hazardous polymerization will not occur.		
Conditions to avoid	None known		
Incompatible materials	None known		
Hazardous decomposition products	None known		

## Section 11. Toxicological Information

Routes of Exposure	Inhalation of dust, Ingestion									
Descriptions of the delayed, immediate, or c			xposure							
Inhalation	Inhalation of high concentrations of glaze dust may cause mechanical irritation and discomfort.									
	Long term exposure may car	use chronic ef	fects.							
Eye Contact	Not a primary eye irritant. M	lay cause med	chanical irrita	ation.						
Skin Contact/Irritation	Not a primary skin irritant. N	Not absorbed	through skin.	. May cause di	y skin.					
Sensitization	Not a strong sensitizer.									
Ingestion	Risk of effect on the liver, th	e cardiovascu	ılar system, t	he hematolog	ical system and the ad	renals from				
	Barium Carbonate.									
Chronic Effects										
OSHA Carcinogen	Lung cancer – Crystaline silio	ca has been cl	assified by O	SHA as a hum	an lung carcinogen.					
Mutagenic Effects	None Known									
Teratogenic Effects	None Known									
Developmental Toxicity	None Known									
Effects of Silicosis Symptoms of Silicosis										
Bronchitis/Chronic Obstructive Pulmonary Dis	order. Possible renal disease.		Shortness of	of breath; poss	sible fever. Fatigue; los	s of appetite.				
Tuberculosis – Silicosis makes an individual m	ore susceptible to TB.		Chest pain;	dry, nonprod	uctive cough.					
Scleroderma – a disease affecting skin, blood	vessels, joints and skeletal mu	ıscles.	Respiratory	/ failure, which	n may eventually lead t	o death.				
Remarks										
Carcinogenicity	Repeated or long term expo	•	•							
	of silicosis. Symptoms will in	clude progres	ssively more	difficult breatl	ning, cough, fever, and	weight loss.				
	Acute silicosis can be fatal. Short term exposure is of little concern.									
Numerical Measures of toxicity	easures of toxicity None Known									
	OSHA, IARC, and NTP Ca	rcinogen Clas	sifications							
Chemical with Carcinogen Potential	Chemical with Carcinogen Potential CAS# OSHA IARC NTP									
Quartz, (Crystalline Silica) SiO2 CAS # 14808-60-7 Yes Yes - Group 1 Yes					Yes					
Titanium Dioxide (airborne, unbound particles	s of respirable size) TiO2	CAS # 13	3463-67-7	Yes	Titanium Dioxide (airborne, unbound particles of respirable size) TiO2 CAS # 13463-67-7 Yes Yes - Group 2b No					



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### Section 12. Ecological Information (non-mandatory)

Ecotoxicity	None Known
Biochemical oxygen demand (BOD5)	None Known
Chemical oxygen demand (COD)	None Known
Products of Biodegradation	None Known
Toxicity of the products of Biodegradation	None Known
Bioaccumulation Potential	None Known
Potential to move from soil to groundwater	None Known
Other adverse effects	None Known

### 13. Disposal Considerations

Personal Protection	Refer to Section 8: "Recommendations for Personal Protective Measures" when disposing of glaze waste.		
Appropriate disposal containers	Standard waste disposal containers – no specials requirements.		
Appropriate disposal methods	Disposal of this product should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. In most cases, this is normal waste disposal. The generation of waste should be avoided or minimized. Dispose of non-recyclable products via a licensed waste disposal contractor. Waste packaging should be recycled. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers.		
Physical and chemical properties that may affect disposal	Glaze waste should be placed in a sealed container or in a manner that reduces or eliminates the release of the product. Packaging should be recycled before disposal.		
Sewage disposal	Do not dispose of into sinks or toilets. They will clog. Never dispose of this product into a sewer system.		
Special precautions for landfills	Hills There are no special precautions for disposal in a landfill.		
or incineration activities	This product is non-combustible and is not suitable for incineration.		

### Section 14. Transportation Information

Regulatory Information	UN Number	UN Proper Shipping Name	Transport Hazard Class	Packing Group Number	Bulk Transport Guidance	Special Precautions
DOT Classification	Not regulated	-	-	-	-	-
TDG Classification	Not regulated	-	-	-	-	-
ADR/RID Class	Not regulated	-	-	-	-	-
IMDG Class	Not regulated	-	-	-	-	-
IATA-DGR Class	Not regulated	-	-	-	-	-

### Section 15. Regulatory Information

TSCA – Toxic Substances Control Act - EPA	Quartz and other chemicals are listed in the TSCA Chemical Substance Inventory			
California Prop. 65	WARNING: This product can expose you to chemicals including quartz which is known to the			
	State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.			
SARA/Title III	This mixture contains no substances at or above the reporting threshold under			
(Emergency Planning & Community Right-to-Know Act)	Section 313, based on available data.			

### Section 16. Other Information

#### **Definitions**

**OSHA** means Occupational Safety & Health Administration

IARC means International Agency for Research on Cancer

NTP means National Toxicology Program

CAS means Chemical Abstract Service

**ACGIH** means American Conference of Governmental Industrial Hygienists

CAL-OSHA means California OSHA, most CAL-OSHA standards defer to the federal OSHA standards

**OSHA** means Occupational Safety & Health Administration

**OSHA PEL** means OSHA Permissible Exposure Limit

TWA means Time Weighted Average (average exposure on the basis of an 8h/day, 40h/week work schedule)

TLV means Threshold Limit Value - American Conference of Governmental Industrial Hygienists (ACGIH)

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