

SDS prepared by Steve Davis of Aardvark Clay & Supplies

GHS – United States

Section 1. Product and Company Identification

Product Name:	CTG24 – Jensen Re	ed
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
	contact@aardvarkcla	y.com
	/1/0/1 2021	. and

Emergency Phone Number: 911

Product Use:	Pottery Manufacturing
Restrictions on use:	Not applicable

Restriction		Not applicable	
Section	2. Hazards I	dentification	

50000						
GHS/Ha 2012 La		GHS/Hazcom 2012 Classifications:				
1		Health:				
		CARCINOGENICITY (Inhalation) - Category 1A (quartz) (See Section 11 for carcinogen listings)				
		SPECIFIC TARGET ORGAN TOXICITY (Repeated Exposu	ire) (respii	r atory tract) (inhalation) - Category 1 (quartz)		
		ACUTE TOXICITY (Oral) - Category 4 (copper carbonate				
		SPECIFIC TARGET ORGAN TOXICITY (Single Exposure)	(respirato	ry tract) (inhalation) - Category 3 (quartz)		
		EYE IRRITANT - Category 2A (quartz)				
		SKIN IRRITANT - Category 2 (quartz)				
1		Environmental:				
	13	ACUTE HAZARD TO THE AQUATIC ENVIRONMENT	Category	1 (zinc oxide)		
1		CHRONIC HAZARD TO THE AQUATIC ENVIRONMENT -	Category	1 (zinc oxide)		
Signal	Word:	Physical:				
Dar	nger	Not Hazardous				
Hazaro	d Statem	ents:				
Health	n:					
H350	May cau	ise cancer.	H335	May cause respiratory irritation		
H372	Causes	damage to organs (lungs) through prolonged or	H316	Causes mild skin irritation.		
	repeate	d exposure (inhalation).				
Enviro	ronmental: Physical:					
H413		May cause long-lasting harmful effects to aquatic life. Not hazardous				
H401		aquatic life.				
Precau	ution Sta	tements:				
Prever	ntion					
P260		preathe dust/spray.	P284	[In case of inadequate ventilation] wear respiratory protection.		
P262		get into eyes, on skin, or on clothing.	P273	Avoid release to the environment.		
P264		ands thoroughly after handling.	P270	Do not eat, drink, or smoke when using this product.		
P272		inated clothing should not be allowed out of the	P202	Do not handle until all safety precautions have been read and		
Deeree	workpla	ce.		understood.		
Respo P314		lical advice/attention if you feel unwell.	P363	Wash contaminated clothing before reuse.		
P314 P304+		ED: Call a POISON CENTER or doctor/physician if you	P303 P304+	IF INHALED: Remove person to fresh air and keep comfortable		
P304+ P312	feel unwell. P304+ IF INHALED: Remove person to fresh air and keep comfortable					
P305+	IF IN EYES: Rinse cautiously with water for several minutes. P301+ IF SWALLOWED: Call a POISON CENTER or doctor/physician if					
P351+						
P338						
P337+	If eye in	itation persists, get medical advice/attention.	P301+	IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.		
P313			P330+			
P391	Collect S		P331			
P302+	IF ON SKIN: Wash with plenty of soap and water. P333+ If skin irritation or a rash occurs: Get medical advice/attention.					
P352			P313			



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Section 2. Hazards Identification					
Storag	je		Dispos	sal	
P402	Store in a dry place.		P501	Dispose of contents/container in accordance with	h
P403	403 Store in a well ventilated place.			local/regional/national/international regulations.	
P404	Store in a closed container.				
P405	Store locked up.				
P233	233 Keep container tightly closed.				
Hazaro	lazards not otherwise classified: Slippery when wet.		% of in	ngredients with unknown acute toxicity: N	lone 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, Silica, Whiting, Kaolin, Dolomite	<35
Sodium-Calcium Pentaborate Octa NaO.2Ca	hydrate aO.5B2O3.5H2O	CAS # 1319-33-1	Ulexite from Gerstley Borate	<2
Di-Calcium Hexaborate Pentahydra C	ate Ca2B6O11.5H2O	CAS # 12291-65-5	Colemanite from Gerstley Borate	<5
Calcium Magnesium Carbonate	CaMg(CO3)2	CAS # 16389-88-1	Dolomite	<5
Calcium Carbonate	CaCO3	CAS # 1317-65-3	Limestone (Whiting)	<10
Zinc Oxide	ZnO	CAS # 1314-13-2	Zinc Oxide	<5
Copper Carbonate	CuCO3	CAS # 12069-69-1	Copper Carbonate	<1
Stannic Oxide – Tin (IV) Oxide	SnO2	CAS # 18282-10-5	Tin Oxide	<1

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 Effect	s, Both 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 respiratory tract.	
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.	



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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 contai	nment	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.		
Section 7. Handling & S [.]	torage			
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 condition	ons for safe storage	No special storage considerations, but keep in a dry, cool location.		
Section 8. Exposure Co	ontrols / Person	al Protection		
Chemical	CAS Number	Occupational Exposure Limits		
Quartz,(Crystalline Silica)	CAS#14808-60-7	ACGIH TLV: TWA 0.025 mg/ m ³ (respirable)		
SiO2		OSHA PEL: TWA 10 mg/m ³ / divided by the value " $SiO2$ " + 2 (respirable)		
		OSHA PEL: TWA 30 mg/m ³ / divided by the value "%SiO2" + 2 (total dust)		
		CAL OSHA PEL: TWA .05 mg/ m ³ (respirable)		
		CAL OSHA PEL: TWA .3 mg/ m ³ (total)		
Sodium-Calcium Pentaborate	CAS # 1319-33-1	ACGIH TLV: TWA 2 mg/ m ³		
Octahydrate		OSHA PEL: TWA 5 mg/m ³ (respirable)		
NaO.2CaO.5B2O3.5H2O		OSHA PEL: TWA 15 mg/m ³ (total)		
		CAL OSHA PEL: TWA 5 mg/ m ³		
Di-Calcium Hexaborate	CAS # 12291-65-5	ACGIH TLV: TWA 2 mg/ m ³		
Pentahydrate		OSHA PEL: TWA 5 mg/m ³ (respirable)		
Ca2B6O11.5H2O		OSHA PEL: TWA 15 mg/m ³ (total)		
		CAL OSHA PEL: TWA 5 mg/ m ³		
Calcium Magnesium Carbonate	CAS # 16389-88-1	ACGIH TLV: TWA 10 mg/ m ³		
CaMg(CO3)2		OSHA PEL: TWA 5 mg/m ³ (respirable)		
		OSHA PEL: TWA 15 mg/m ³ (total)		
		CAL OSHA PEL: TWA 10 mg/ m ³		
Calcium Carbonate	CAS# 1317-65-3	ACGIH TLV: Not Established		
CaCO3		OSHA PEL: TWA 5 mg/m ³ (respirable)		
		OSHA PEL: TWA 15 mg/m ³ (total)		
		CAL OSHA PEL: TWA 5 mg/ m ³ (respirable)		
		CAL OSHA PEL: TWA 10 mg/ m ³ (total)		
Zinc Oxide	CAS # 1314-13-2	ACGIH TLV: TWA 2 mg/ m ³		
ZnO		OSHA PEL: TWA 5 mg/m ³ (respirable)		
		OSHA PEL: TWA 15 mg/m ³ (total)		
		CAL OSHA PEL: TWA not established		
Copper (II) Carbonate CuCO3	CAS # 12069-69-1	No Occupational Exposure Limits are listed for this chemical.		
Stannic Oxide – Tin (IV) Oxide	CAS # 18282-10-5	ACGIH TLV: TWA 2 mg/ m ³		
SnO2		OSHA PEL: TWA not established		
		CAL OSHA PEL: TWA not established		

Section 8. Exposure Controls / Personal Protection

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





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Section 9. Physical & Chemica	l Properties
Physical State	Powder
Appearance	Tinted Powder
Odor	None
Odor Threshold	Not Applicable
рН	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	azardous polymerization will not occur.	
Conditions to avoid	lone 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	hronic effects from short- and long-term exposure	
Inhalation	Inhalation of high concentrations of glaze dust may cause mechanical irritation and discomfort.	
	Long term exposure may cause chronic effects.	
Eye Contact	Not a primary eye irritant. May cause mechanical irritation.	
Skin Contact/Irritation	Not a primary skin irritant. Not absorbed through skin. May cause dry skin.	
Sensitization	Not a strong sensitizer.	
Ingestion	Not an ingestion hazard. If a large quantity has been ingested, intestinal blockage and/or	
	gastrointestinal irritation may result.	

Section 11. Toxicological Information

Chronic Effects						
OSHA Carcinogen	Lung cancer – Crystaline silica has been classified by OSHA as a human lung carcinogen.					
Mutagenic Effects	None Known					
Teratogenic Effects	None Known					
Developmental Toxicity	None Known					
Effects of Silicosis			Symptoms of Silicosis			
Bronchitis/Chronic Obstructive Pulmonary Disorder.			Shortness of breath; possible fever.			
Tuberculosis – Silicosis makes an individual more susceptible to TB.			Fatigue; loss of appetite.			
Scleroderma – a disease affecting skin, blood vessels, joints and skeletal muscles.			Chest pain; dry, nonproductive cough.			
Possible renal disease.			Respiratory failure, which may eventually lead to death.			
Remarks						
Carcinogenicity	ty Repeated or long term exposure to respirable crystalline silica dust may cause lung damage in the forr			ge in the form		
	of silicosis. Symptoms will include progressively more difficult breathing, cough, fever, and weight loss.			d weight loss.		
	Acute silicosis can be fatal. Short term exposure is of little concern.					
Numerical Measures of toxicity	None Known					
OSHA, IARC, and NTP Carcinogen Classifications						
Chemical with Carcinogen Potential	Chemical with Carcinogen Potential		CAS#	OSHA	IARC	NTP
Quartz, (Crystalline Silica)	SiO2	CAS # 1	L4808-60-7	Yes	Yes - Group 1	Yes



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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	S 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	recautions for landfills 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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