

SDS prepared by Steve Davis of Aardvark Clay & Supplies

GHS - United States

## Section 1. Product and Company Identification

Product Name CTG11 Talon Base

**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@aardvarkclay.com

**Emergency Phone Number** 911

Product Use Pottery Manufacturing

**Restrictions on use** Not applicable

### Section 2. Hazards Identification

GHS/H		GHS/Hazcom 2012 Classifications:						
2012 La	abels							
		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)				
		EYE IRRITANT - Category 2A (quartz)						
		SKIN IRRITANT - Category 2 (quartz)	SKIN IRRITANT - Category 2 (quartz)					
Signal V	Word:	Environmental:		Physical:				
Dan	ger	Not Hazardous		Not Hazardous				
Hazard	Statem	ents:						
Health:								
H335	H335 May cause respiratory irritation			L6 Causes mild skin irritation.				
H350 May cause cancer.								
H372 Causes damage to organs (lungs) through prolonged or repeated exposure (inhalation).			e (inhalation).					
<b>Environmental:</b>		tal:		Physical:				
Not hazardous		Not hazardous						

Precau	Precaution Statements:					
Prever	ntion					
P201	Obtain special instructions before use.	P273	Avoid release to the environment.			
P272	Contaminated clothing should not be allowed out of the workplace.	P202	Do not handle until all safety precautions have been read and understood.			
P260	Do not breathe dust/spray.	P262	Do not get into eyes, on skin, or on clothing.			
P264	Wash hands thoroughly after handling.	P270	Do not eat, drink, or smoke when using this product.			
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.	P284	[In case of inadequate ventilation] wear respiratory protection.			
Respo	nse					
P301+ P330+ P331	IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.	P304+ P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.			
P301+ P312+ P330	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.	P342+ P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.			
P302+ P352	IF ON SKIN: Wash with plenty of soap and water.	P305+ P351+ P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.			
P333+ P313	If skin irritation or a rash occurs: Get medical advice/attention.	P337+ P313	If eye irritation persists, get medical advice/attention.			
P314	Get medical advice/attention if you feel unwell.	P391	Collect Spillage.			



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Precau	Precaution Statements:						
Storag	Storage						
P404	Store in a closed container.		P402	Store in a dry place.			
P405	Store locked up.			Store in a well ventilated place.			
Dispos	Disposal			Keep container tightly closed.			
P501	501 Dispose of contents/container in accordance with local/regional/national/international regulations.						
Hazard	Hazards not otherwise classified: Slippery when wet.			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)	O2 CAS # 14808-60-7	Kaolin, Feldspar, Silica, Whiting, Dolomite, Zircopax	<35
Calcium Carbonate CaC	O3 CAS # 1317-65-3	Limestone (Whiting)	<15
Kaolinite Al2O3.2SiO2.2H2	O CAS # 1332-58-7	Kaolin	<15
Calcium Magnesium Carbonate CaMg(CO3	)2 CAS # 16389-88-1	Dolomite	<5
Zirconium Silicate ZrO2.Si	o2 CAS# 14940-68-2	Zircopax	<10

#### Section 4. First-Aid Measures

Dection 4. Inst-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. Unlikely to be toxic by ingestion.			
	If discomfort persists, seek medical attention.			
Most Important Symptoms and Effects, Bot	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 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 gastrointestinal 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 glaze 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 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 & 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	No special storage considerations, but keep in a dry, cool location.
conditions for safe storage	



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Section 8. Exposure Controls / Personal Protection						
Chemical	CAS Number	Occupational Exposure Limits				
Quartz,(Crystalline Silica) SiO2	CAS#14808-60-7	ACGIH TLV:	TWA 0.025 mg/ m <sup>3</sup> (respirable)			
		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)			
			TWA .05 mg/ m <sup>3</sup> (respirable)			
		CAL OSHA PEL:	TWA .3 mg/ m <sup>3</sup> (total)			
Calcium Carbonate CaCO3	CAS# 1317-65-3	ACGIH TLV:	Not Established			
		OSHA PEL:	TWA 5 mg/m <sup>3</sup> (respirable)			
		OSHA PEL:	TWA 15 mg/m³ (total)			
			TWA 5 mg/ m <sup>3</sup> (respirable)			
		CAL OSHA PEL:	TWA 10 mg/ m <sup>3</sup> (total)			
Kaolinite Al2O3.2SiO2.2H2O	CAS#1332-58-7	ACGIH TLV:	TWA 2 mg/ m <sup>3</sup> (respirable) / particulate matter containing no			
			asbestos and <1% crystalline silica (respirable)			
		OSHA PEL:	TWA 5 mg/m <sup>3</sup> (respirable)			
		OSHA PEL:	TWA 15 mg/m <sup>3</sup> (total)			
		CAL OSHA PEL:	TWA 2 mg/ m <sup>3</sup> (respirable)			
		CAL OSHA PEL:	TWA not established (total)			
Dolomite CaCO3.MgCO3	CAS # 16389-88-1	ACGIH TLV:	TWA 10 mg/ m <sup>3</sup>			
Calcium Magnesium Carbonate		OSHA PEL:	TWA 5 mg/m <sup>3</sup> (respirable)			
		OSHA PEL:	TWA 15 mg/m <sup>3</sup> (total)			
		CAL OSHA PEL:	TWA 10 mg/ m <sup>3</sup>			
Zirconium Silicate ZrO2.Sio2	CAS# 14940-68-2	ACGIH TLV:	TWA 5 mg/ m <sup>3</sup> (respirable			
		OSHA PEL:	TWA 5 mg/m <sup>3</sup> (respirable)			
		OSHA PEL:	TWA 15 mg/m <sup>3</sup> (total)			
		CAL OSHA PEL:	TWA 5 mg/m <sup>3</sup> (respirable)			

**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
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	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 chronic 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 cau	term exposure may cause chronic effects.				
Eye Contact	Not a primary eye irrita	ınt. May cau	ise mechanical ir	ritation.		
Skin Contact/Irritation	Not a primary skin irrita	ant. Not abs	orbed through sk	in. May cause	dry skin.	
Sensitization	Not a sensitizer					
Ingestion	_	_		n ingested, into	estinal blockage and/or	
	gastrointestinal irritation	on may resu	lt.			
Chronic Effects						
OSHA Carcinogen	Lung cancer – Crystalin	e silica has l	peen classified by	OSHA as a hu	man 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.		Shortness of breath; possible fever.			
Tuberculosis – Silicosis makes an individual m		Fatigue; loss of	appetite.			
Scleroderma – a disease affecting skin, blood	vessels, joints and skeleta	al muscles.	Chest pain; dry,	•	•	
Possible renal disease.			Respiratory fail	ure, which ma	y eventually lead to deat	h.
Remarks	Remarks					
Carcinogenicity	Repeated or long term	exposure to	respirable crysta	alline silica dus	st may cause lung damag	e in the
	form of silicosis. Sympton	coms will include progressively more difficult breathing, cough, fever, and				
	weight loss. Acute silico					
	Short term exposure is	of little con	cern.			
Numerical Measures of toxicity	None Known					
	OSHA, IARC, and NT	P Carcinoge	n Classifications			
Chemical with Carcinogen Potential		С	AS#	OSHA	IARC	NTP
-3	02	CAS # 1	L4808-60-7	Yes	Yes - Group 1	Yes
Zirconium Silicate Silicic acid (H4SiO4), Zirc			10101-52-7	No	No	No
Zircopax (Zirconium Silicate) contains trace quantities (90-110pCi/g - less than or equal to 420 ppm) of naturally occurring radioactive uranium,						
thorium, and radium. Overexposure by inhalation to respiarable dusts containing radioactive uranium, thorium, and radium may cause lung cancer.						



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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	Glaze waste should be placed in a sealed container or in a manner that reduces or eliminates the release of the		
that may affect disposal	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	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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