

# Safety Data Sheet

## Section 1 - Identification

<b>Product Name</b>	<b>CL041 Oregon Red Grog</b> <b>KCDA Red Grog</b>
<b>Date</b>	<b>02/04/2019</b>
<b>Common Names</b>	Pottery Clay, Dry Clay, Moist Clay
<b>Company</b>	Clay Art Center 2636 Pioneer Way East Tacoma Wa 98404 253-922-5342
<b>Emergency Number</b>	911
<b>Product Use</b>	Pottery, Artware, Ceramic Building Materials

## Section 2 - Hazardous Identification

**Contains Crystalline Silica > 1% Respirable**

**GHS label elements /  
Hazard pictograms**



**OSHA / HCS status**

This material is considered hazardous by the OSHA Hazard Communication Standard ( 29 CFR 1910. 1200 )

**Classification of the  
substance or mixture**

OSHA - Carcinogenicity ( Inhalation ) - Category 1A  
Specific organ toxicity ( Repeated Exposure ) ( Respiratory tract through inhalation ) - Category 1

**Signal Word**

**Danger**

**Hazard Statement**

( H350 ) Cancer Hazard. Contains quartz ( crystalline silica ) which may cause cancer. Risk of cancer depends upon duration and level of exposure to the dust  
Not an acute hazard.  
( H332 ) Prolonged inhalation of dust may cause lung injury. Inhalation of high concentrations of dust may cause mechanical irritation and discomfort of the respiratory tract. Repeated exposure may have chronic effects.  
Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage.  
( H316 + H320 + H335 ) Can cause skin, respiratory, and eye irritation.  
( P261 ) Avoid breathing dust  
( P280 ) Wear protective gloves, eye, and respiratory protection.

**Precautionary  
Statements**

## Section 3 - Composition / Information on Ingredients

### Substances / Mixtures

Mixture - A trade secret claim is made for this item

Component	CAS #	Approx % by Wt.
Quartz (Crystalline Silica)	14808-60-7	20%-40%
Alumina Oxide	1344-28-1	20%-30%
Iron Oxide Red	1309-37-1	20%-30%
Titanium Dioxide	13463-67-7	<2%
Potassium oxide	12136-45-7	5%-20%
Magnesium oxide	1309-48-4	<5%
Manganese Dioxide	7439-96-5	<5%
Nepheline Syenite	37244-96-5	30%-50%
Kaolin	1332-58-7	20%-30%
Kyanite	1318-74-7	<5%
Mica	12001-26-2	<5%
Hematite	1317-60-8	<5%
Smectite	12199-37-0	<5%
Bentonite	1302-78-9	<5%
Barium Carbonate	513-77-9	<5%
Barium Sulfate	7727-43-7	<5%
Mulite (Calcined Kaolin)	1332-58-7	<2%
Cristobalite	14464-46-1	<1%
Amorphous silica	7631-86-9	<2%

## Section 4 - First Aid Measures

<b>Eye Contact</b>	If eye contact occurs, rinse immediately with plenty of water. If irritation persists, seek medical attention.
<b>Skin Contact</b>	If irritation occurs, wash thoroughly with water. If it persists, seek medical attention.
<b>Inhalation</b>	Move victim to fresh air in well ventilated area. If coughing or irritation persist, seek medical attention.
<b>Ingestion</b>	Product may harden if ingested. May result in stomach and intestinal blockage. Drinking gelatin solutions or large volumes of water may delay setting.

### Symptoms and Effects, both Acute and Delayed

<b>Eye Contact</b>	Prolonged contact with large amounts of dust may cause mechanical irritation.
<b>Skin Contact</b>	Prolonged contact with large amounts of dust may cause mechanical irritation.
<b>Inhalation</b>	Inhalation of high concentrations of dry dust may cause mechanical irritation and discomfort. Long term exposure may cause chronic effects ( see section 11 )
<b>Ingestion</b>	Large quantities ingested may cause gastrointestinal irritation.
<b>Chronic Symptoms</b>	Repeated or prolonged exposure to respirable crystalline silica dust may cause lung damage in the form of silicosis. Symptoms will include shortness of breath, fever, fatigue, loss of appetite, chest pain, dry non-productive cough.

## Section 5 - Fire Fighting Measures

<b>General Fire Hazards</b>	Clay mixture in dry form is not flammable and does not support fire. The paper bags or plastic bags and cardboard boxes containing the mixture are flammable.
<b>Extinguishing Media</b>	Use appropriate extinguishing media for surrounding fire.
<b>Chemical Hazards from Fire</b>	Clay mixture does not contain hazardous decomposition products.
<b>Protective Actions and Equipment for Fire-fighters</b>	Clay mixture and packaging can become slippery when wet. Fire-Fighters should wear appropriate protective equipment.

## Section 6 - Accidental Release Measures

<b>Clean - up Methods</b>	Vacuum up spilled material. Vacuums used for this purpose should be equipped with HEPA filters.
<b>Personal Precautions and Personal Protection Equipment</b>	Wear appropriate protective equipment and clothing during clean-up. When dry sweeping use NIOSH approved respirators when dust levels exceed exposure limits.
<b>Environmental Precautions</b>	Clay is a natural mineral product mixture and will not cause adverse effects to the water system other than turbidity from suspended particles.
<b>Emergency Procedures and Methods of Containment</b>	There are no emergency procedures required for this mixture. Place dry powder in a sealed container for reuse or proper disposal.

## Section 7 - Handling and Storage

<b>Precautions for Safe Handling</b>	Use proper lifting techniques to avoid injury.
<b>Recommendations on the Conditions for Safe Storage</b>	Store in a clean, dry location. Do not store clay below freezing point.

## Section 8 - Exposure Counts / Personal Protection

### Airborne Exposure Limits

Hazardous Ingredient	Wt. % Approx.	CAS#	OSHA PEL* / ACGIH TLV
Quartz (Crystalline Silica)	20%-40%	14808-60-7	0.1mg/m <sup>3</sup> / 0.025 mg/m <sup>3</sup> respirable
Alumina Oxide	20%-30%	1344-28-1	0.5 mg/m <sup>3</sup> / 0.02mg/m <sup>3</sup>
Iron Oxide Red	20%-30%	1309-37-1	10mg/m <sup>3</sup> / 5mg/m <sup>3</sup>
Titanium Dioxide	<2%	13463-67-7	15mg/m <sup>3</sup> / 3mg/m <sup>3</sup> respirable
Potassium oxide	5%-20%	12136-45-7	Not applicable
Magnesium oxide	<5%	1309-48-4	15mg/m <sup>3</sup> (fume, total particulate) 10mg/m <sup>3</sup> (inhalable fraction)
Manganese Dioxide	<5%	7439-96-5	5mg/m <sup>3</sup> / 0.02 mg/m <sup>3</sup> respirable
Nepheline Syenite	20%-30%	37244-96-5	5mg/m <sup>3</sup> / respirable 15 mg/m <sup>3</sup> total dust
Kaolin	30%-50%	1332-58-7	5mg/m <sup>3</sup> / 2mg/m <sup>3</sup> respirable 15mg/m <sup>3</sup> total dust
Kyanite	<5%	1318-74-7	5mg/m <sup>3</sup> respirable 15mg/m <sup>3</sup> total dust
Mica	<5%	12001-26-2	3mg/m <sup>3</sup> respirable
Hematite	<5%	1317-60-8	5mg/m <sup>3</sup> respirable 15mg/m <sup>3</sup> total dust
Smectite	<5%	12199-37-0	5mg/m <sup>3</sup> (respirable)15 mg/m <sup>3</sup> (total dust)
Bentonite	<5%	1302-78-9	5mg/m <sup>3</sup> / 3mg/m <sup>3</sup> respirable 15mg/m <sup>3</sup> / 10mg/m <sup>3</sup> total dust
Barium Carbonate	<5%	513-77-9	0.5mg/m <sup>3</sup> 0.5 mg/m <sup>3</sup>
Barium Sulfate	<5%	7727-43-7	15mg/m <sup>3</sup> 5 mg/m <sup>3</sup>
Mulite (Calcined Kaolin)	<2%	1332-58-7	15mg/m <sup>3</sup> Total Dust 5mg/m <sup>3</sup> Respirable 2mg/m <sup>3</sup>
Cristobalite	<1%	14464-46-1	5mg/m <sup>3</sup> / respirable 0.02mg/m <sup>3</sup> A2
Amorphous silica	<1%	7631-86-9	20mppcf (80 mg/m <sup>3</sup> /%SiO <sub>2</sub> )

#### Engineering Measures

Clay mixture in moist form poses no inhalation risk. Once clay mixture has dried, there may be dust generated by cleaning and working process. In the event dust is generated, use local exhaust ventilation or other engineering controls as required to maintain exposures below applicable occupational exposure limits.

#### Personal Protective Equipment ( PPE )

##### Respiratory

Dust is generated when working with dry clay mixture. To minimize exposure to dust and/or crystalline silica, cutting or sanding dry clay products 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 sanding, wet suppression, ventilation, and process enclosures. When such controls are not feasible, NIOSH/MSHA approved respirators must be worn as set forth at 29 CFR1910,134 and ANSI Z88.2-1080 "Practices for Respiratory Protection"

##### Eyes

Wear approved safety goggles. NIOSH recommends that contact lenses not be worn when working with crystalline silica dust.

##### Skin and Body

It is a good industrial hygiene practice to minimize skin contact. For

## Section 9-- Physical and Chemical Properties

<b>Appearance</b>	Dry Powder, moist mud brick	<b>Evaporation Rate</b>	Not Applicable
<b>Color</b>	Red	<b>Solubility in Water at 100c</b>	None
<b>Physical State</b>	Solid	<b>Viscosity</b>	Not Applicable
<b>ph</b>	6-8	<b>Flashpoint</b>	Not Applicable
<b>Odor</b>	low to none	<b>Boiling Point</b>	Not Applicable
<b>Odor Threshold</b>	Not Applicable	<b>Flammability</b>	Not Applicable
<b>Melting Point</b>	Not Applicable	<b>Vapor Pressure(mm HG)</b>	Not Applicable
<b>Freezing Point</b>	Not Applicable	<b>Vapor Density</b>	Not Applicable
<b>Relative Density /</b>		<b>Particlan coefficient</b>	Not Applicable
<b>Specific Gravity</b>	2.96 (H <sub>2</sub> O=1)	<b>Auto Ignition Temp.</b>	Not Applicable

## Section 10 - Stability and Reactivity

<b>Reactivity</b>	No dangerous reactions are known under normal conditions of use.
<b>Chemical Stability</b>	Material is stable under normal conditions.
<b>Possibility of Hazardous Reactions</b>	None Known
<b>Incompatible Materials</b>	None Know

## Section 11-- Toxicological Information

<b>Primary Route of Exposure</b>	Skin, Eye Contact, Inhalation and Ingestion.
<b>Specific Organ Toxicity Single Exposure</b>	Target organs include Ears, Skin, respiratory system, and gastrointestinal.
<b>Specific Organ Toxicity Repeated Exposure</b>	Cause damage to eyes, skin, respiratory system, and gastrointestinal tract through prolonged or repeated exposure.
<b>Acute Short Term Exposure Effects</b>	May cause eye irritation, skin irritation, respiratory tract irritation, and gastrointestinal tract irritation. Inhalation of high concentrations of dry powder may cause mechanical irritation and discomfort. Long term exposure may cause chronic effects.
<b>Chronic Long Term Exposure Effects</b>	Silica has been classified by OSHA as a human lung carcinogen. Repeated or prolonged exposure of respirable crysalline silica dust may cause lung damage in the form of silicosis. Effects of silicosis include bronchitis/chronic obstructive pulmonary disorder, increased susceptibility to tuberculosis, sclerderma ( a disease affecting skin, blood vessels, joints and skeletal muscles),and possible renal disease. Acute silicosis can be fatal.
<b>Related Symptoms</b>	Symptoms will include shortness of breath, fever, fatigue, loss of appetite, chest pain, dry non-productive cough.
<b>Medical Conditions Aggravated by Exposure</b>	Individuals with pre-existing allergies, eye disorders, skin disorders, respiratory disorders and/or gastrintestinal disorders may have increased susceptibility to the effects of exposure.

### OSHA, IARC, and NTP Carcinogen Classifications

Chemicals and Carcinogen Potential	CAS#	OSHA	IARC	NTP
Talc - Steatite	14807-96-6	No	Yes-1	No
Crystalline Silica Quartz	14808-60-7	Yes	Yes-1	Yes
Titanium Dixide	13463-57-7	No	Yes-2b	No

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

<b>Ecotoxicity</b>	None known
<b>Biochemical Oxygen Demand ( BODS )</b>	None Known
<b>Chemical Oxygen Demand ( COD )</b>	None Known
<b>Products of Biodegradation</b>	None Known
<b>Toxicity of the Products of Biodegradation</b>	None Known
<b>Bioaccumulation Potential</b>	None Known
<b>Potential to Move from Soil to Groundwater</b>	None Known
<b>Other Adverse Effects</b>	None Known

## Section 13 -- Disposal Configurations ( non-mandatory )

<b>Personal Protection</b>	Refer to section 8 for proper PPE when disposing of waste material.
<b>Appropriate Disposal Containers</b>	Standard waste disposal containers - no special requirements.
<b>Appropriate Disposal Methods</b>	Disposal of this product should comply with the requirements of environmental protection and waste disposal legislation and any regional or local authority requirements.
<b>Physical and Chemical Properties that May Affect Disposal</b>	Dry dust should be placed in a sealed container or in a manner that reduces or eliminates the release of the product.
<b>Swage Disposal</b>	Do not dispose of into sinks or toilets. Never dispose of this product into a sewer system.
<b>Special Precautions for Landfills or Incineration Activities</b>	There are no special precautions for disposal in a landfill. This product is non-combustible and is not suitable for incineration.

## Section 14 -- Transportation Information ( non-mandatory )

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 ( non-mandatory )

**TSCA - Toxic Substance** Quartz and other chemicals are listed in the TSCA Substance Inventory.



**California Prop. 65 Warning** This product contains a chemical known to the State Of California to cause cancer. ( Prop 65 - California Health and Safety Code Section 2549 Et Seq )

**SARA / Title III ( Emergency Planning and Community Right to Know Act** This mixture contains no substance at or above the reporting threshold under section 313, based on available data

## Section 16 -- Other Information ( non-mandatory ) continued

Three types of TLVS for chemical substances as defined by the ACGIH are:

<b>TLV-TWA</b>	Time weighted average - average exposure on the basis of an 8 h/day, 40h/week work schedule.
<b>TLV - STEL</b>	Short - term exposure limit - spot exposure for a duration of 15 minutes, that can not be repeated more than 4 times per day, with at least 60 minutes between exposure periods.
<b>TLV-C</b>	Ceiling limit - absolute exposure limit that should not be exceeded at any time.

This SDS is in compliance with The Globally Harmonized System of Classification and Labeling of Chemicals (GHS) and is subject to revision at any time without notice. Its current revision date is : 11/25/2016

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