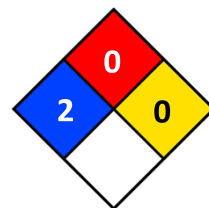




### HMIS Ratings

Health Hazard	2
Fire Hazard	0
Reactivity Hazard	0
Max. Personal Protection	E



Date Prepared: 10/13/16

Revised: 10/13/16

## SAFETY DATA SHEET

### Section 1: Product and Company Identification

**Product name(s):** CT3  
**Common Name(s):** Pottery Clay, Dry Clay, Moist Clay  
**Recommended Uses:** Non-exhaustive list: pottery, artwork, and ceramic building materials  
**Restrictions on Use:** Not Applicable

**Manufacturer's Name & Address:**

Rocky Mountain Clay	Telephone:	303-805-0516
1220 W 1 <sup>st</sup> Ave	Fax:	303-805-0516
Denver, CO 80012	Email:	Clay@rockymountainclay.com

**Emergency Phone: For Emergencies, call Poison Control: (800) 222-1222 or 911**

### Section 2: Hazards Identification

**Contains Crystalline Silica  $\geq 1\%$   $\leq 5\%$  Respirable**

**GHS label elements/  
Hazard pictograms:**



**Signal Word: Danger**

**OSHA/HCS Status:** Clay mixture in dry form is considered hazardous by the OSHA Hazard Communication Standard: (29 CFR 1910.1200)

<b>Classification:</b>	Specific Target Organ Toxicity - Repeated Exposure Carcinogenicity	Category 1 - Respiratory Category 1A
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**Hazard Statements:**

**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.

**H316, H320, H335:** Can cause skin, respiratory, and eye irritation

**Precautionary Statements:**

**P260:** Do not breathe dust.  
**P285:** In case of inadequate ventilation wear respiratory protection.  
**P280:** Wear protective gloves, eye, and respiratory protection.

### Section 3: Composition/Information on Ingredients

**Mixture Statement:** The specific chemical identity and/or exact percentage (concentration) of composition have been withheld as a trade secret. Yet total component percentages does not exceed the upper percentage value

<b>Hazardous Material</b>	<b>Wt. % Approx.</b>	<b>CAS #</b>
Silica, Crystalline (Quartz)	12-17%	14808-60-7
Titanium Dioxide	.5-1%	13463-67-7
Kaolin Clay	20-60%	1332-58-7
Talc, non-asbetiform	20-60%	14807-96-6
Bentonite	1-2%	1302-78-9
Feldspar	5-10%	68476-25-5

### Section 4: First Aid Measures

#### 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 persists, seek medical attention.
<b>Ingestion</b>	Consult physician and/or obtain competent medical assistance.

#### 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 clay 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: Firefighting Measures

**General Fire Hazards:** Clay mixture in dry or moist form is not flammable and does not support fire. The paper bags or plastic bags and cardboard boxes containing the mixture are flammable.

**Extinguishing Media:** Use appropriate extinguishing media for surrounding fire

**Rocky Mountain Clay: 303-805-0516**

**Chemical Hazards from fire:** Clay mixture does not contain hazardous decomposition products

**Protective actions and equipment for fire-fighters:** Clay mixture and packaging can become slippery when wet. Fire-fighters should wear appropriate protective equipment.

**Section 6: Accidental Release Measures**

**Clean-up Methods:** If appropriate, use gentle water spray to wet down and minimize dust generation.

**Personal Precautions and Protective Equipment:** Wear appropriate protective equipment and clothing during cleanup. When dry sweeping use NIOSH approved respirators when dust levels exceed exposure limits.

**Environmental Precautions:** Clay is a natural mineral product mixture and will not cause adverse effects to the water system other than turbidity from suspended particles.

**Emergency procedures & Methods of Containment:** There are no emergency procedures required for this mixture. Place dry clay dust in a sealed container for re-use or proper disposal.

**Section 7: Handling and Storage**

**Precautions for safe handling:** Use proper lifting techniques to avoid physical injury. Avoid dust generation and accumulation. Do not use in poorly ventilated or confined spaces. Do not taste or swallow. Avoid inhalation or contact. Wash thoroughly after handling.

**Condition for safe storage:** Store in a cool dry place. Do not store moist clay mixture below freezing point (< 0 °C or <32 F)

**Section 8: Exposure Controls/Personal Protection**

**Airborne Exposure Limits:**

Hazardous Material	Wt. % Approx.	CAS #	OSHA PEL* (mg/m3)	ACGIH TLV* (mg/m3)	Respirable or Total Dust
Silica, Crystalline (Quartz)	12-17%	14808-60-7	0.1	0.025	Respirable
Titanium Dioxide	.5-1%	13463-67-7	15	10	Total Dust
Kaolin Clay	20-60%	1332-58-7	5	2	Respirable
			15	-	Total Dust
Talc, non-asbetiform	20-60%	14807-96-6	2	2	Respirable
Bentonite	1-2%	1302-78-9	5	3	Respirable
			15	10	Total Dust
Feldspar	5-10%	68476-25-5	5	2	Respirable

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

**Personal Protection 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 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.

**Eyes** Use of NIOSH/OSHA approved safety glasses with side shields is recommended. Face shields should also be used when dry sawing clay products. 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 and Body** Protective Clothing is not essential. Use gloves and/or protective clothing if abrasion or allergic reactions are experienced.

**Section 9: Physical Chemical Properties**

<b>Physical State:</b> Solid	<b>Appearance:</b> lump /dry powder or clay
<b>Color:</b> light gray to brown	<b>Physical Form:</b> powder to lump
<b>Odor:</b> earthy odor	<b>Odor Threshold:</b> Not applicable
<b>pH:</b> 6-8 (aqueous solution)	<b>Melting Point:</b> > 1500°C
<b>Boiling Point:</b> Not applicable	<b>Flash Point:</b> Will not ignite
<b>Decomposition:</b> loses crystalline water at > 500°C (930°F)	<b>Evaporation Rate:</b> Not applicable
<b>LEL:</b> Not applicable	<b>UEL:</b> Not applicable
<b>Vapor Pressure:</b> Not applicable	<b>Vapor Density (air = 1):</b> Not applicable
<b>Density:</b> Not applicable	<b>Specific Gravity (water = 1):</b> ~2.6 gm/cc
<b>Water Solubility:</b> None	<b>Coeff&gt; Water/Oil Dist:</b> Not applicable
<b>Auto Ignition:</b> Will not ignite	<b>Viscosity:</b> Not applicable
<b>Flow Point:</b> Not applicable	<b>Sublimation Point:</b> Not applicable
<b>VOC:</b> None	

**Section 10: Stability and Reactivity**

**Reactivity** No reactive hazard is expected.

**Chemical Stability** Stable at standard temperature and pressure. No stabilizers required to maintain chemical stability. Safety issues - Mold may form in plastic bag (moist clay mixture) after several months of shelf life.

**Possibility of Hazardous Reactions and Conditions to Avoid** None Known

**Incompatibility / Hazardous decomposition products** None Known

**Section 11: Toxicological Information**

**Primary Route of Exposure:** Skin, Eye Contact, Inhalation and Ingestion

**Specific Organ Toxicity - Single Exposure**

Target organs include ears, skin, respiratory system, and gastrointestinal tract.

**Specific Organ Toxicity - Repeated Exposure:**

Causes damage to eyes, skin, respiratory system, and gastrointestinal tract through prolonged or repeated exposure.

**Acute Short-Term Exposure Effects**

May cause eye irritation, skin irritation, respiratory tract irritation, and gastrointestinal tract irritation. Inhalation of high concentrations of dry clay dust may cause mechanical irritation and discomfort. Long-term exposure may cause chronic effects.

**Chronic Long Term Exposure Effects**

Silica has been classified by OSHA as a human lung carcinogen. Repeated or prolonged exposure of respirable crystalline silica dust may cause lung damage in the form of silicosis.

Effects of silicosis include bronchitis/chronic obstructive pulmonary disorder, increased susceptibility to tuberculosis, scleroderma (a disease affecting skin, blood vessels, joints and skeletal muscles), and possible renal disease. Acute silicosis can be fatal.

**Related Symptoms**

Will include shortness of breath, fever, fatigue, loss of appetite, chest pain, dry non-productive cough.

**Medical Conditions**

Aggravated by Exposure: Individuals with pre-existing allergies, eye disorders, skin disorders, respiratory disorders and/or gastrointestinal disorders may have increased susceptibility to the effects of exposure.

**OSHA, IARC, and NTP Carcinogen Classifications**

<b>Chemicals with Carcinogen Potential</b>	<b>CAS #</b>	<b>OSHA</b>	<b>IARC</b>	<b>NTP</b>
Crystalline Silica – quartz	14808-60-7	YES	YES-1	YES
Talc	14807-96-6	NO	YES-1	NO
Titanium Dioxide	13463-67-7	NO	YES-2B	NO

**Definitions**

IARC - International Agency for Research on Cancer  
 OSHA - Occupational Safety & Health Administration  
 NTP - National Toxicology Program

**IARC Classification**

1 = Carcinogenic to humans  
 2A = Probably carcinogenic to humans  
 2B = Possibly carcinogenic to humans

**Section 12: Ecological Information (non-mandatory)**

<b>Eco-toxicity</b>	None Known
<b>Biochemical oxygen demand (BOD5)</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 Considerations (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</b>	Dry clay dust should be placed in a sealed container or in a manner that reduces or eliminates

<b>that may affect disposal</b>	the release of the product. Moist clay has no special requirements.
<b>Sewage 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: Transport Information (non-mandatory)

**EPA Waste Number:** Not regulated.  
**DOT Classification:** Not regulated.  
**IMO Classification:** Not regulated.  
**Internal UN:** Not regulated.  
**IMDG Code:** This product is not considered to be a marine pollutant.

### Section 15: Regulatory Information (non-mandatory)

**TSCA - Toxic Substances Control Act – EPA:** Quartz and other chemicals are listed in the TSCA Chemical 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 & Community Right-to-Know Act):** This mixture contains no substances at or above the reporting threshold under section 313, based on available data.

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

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: 10/18/2016

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