

## Section 1 - Identification

<b>Product Name</b>	<b>BT2 Mauve Red Glaze</b>
<b>Common Names</b>	Stoneware Glaze
<b>Company/Manufacturer</b>	Minnesota Clay Co. USA 2960 Niagara Ln N Plymouth, MN 55447 (763) 432-0875 fax (763) 432-7675 info@mnclay.com
<b>Emergency Number</b>	911
<b>Product Use</b>	Non-exhaustive list: pottery, art ware, ceramic decoration
<b>Restrictions on Use</b>	None Known

## Section 2 - Hazardous Identification

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

**GHS label elements/  
Hazard pictograms**



**Signal Word:  
Danger**

**OSHA/HCS status**

Glaze mixture in dry form is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

**Classification of the substance  
or mixture**

OSHA - Carcinogenicity (inhalation) - Category 1A and Specific organ toxicity Category 2 (Repeated Exposure) (Respiratory tract through inhalation) - Category 1.

**Hazard Statement**

(H302) Harmful if swallowed. (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.

**\*Glaze in liquid form poses no health risk. Inhalation of dry glaze dust, fumes from firing or ingestion of glaze should be avoided.**

**Precautionary  
Statements**

(P261) Avoid breathing dust. (P280) Wear protective gloves, eye, and respiratory protection. (P264) Wash contaminated skin thoroughly after handling. (P270) Do not eat, drink or smoke when using this product. (P301+P310) If swallowed: Immediately call a poison center/doctor. (P330) Rinse mouth. (P501) Dispose of contents/container in accordance with national regulations.

### Section 3 - Composition / Information on Ingredients

#### Substances/Mixtures

Mixture - A trade secret claim is made for this item.

Component	CAS#	Approx % by Wt.
Feldspar	68476-25-5	20-40%
Crystalline Silica - quartz	14808-60-7	15-35%
Frit*	65997-18-4	5-20%
Calcium Carbonate	1317-65-3	5-20%
Kaolin	1332-58-7	5-20%
Ceramic Pigment**	Varies	5-20%
Talc	14807-96-6	3-10%
Titanium Dioxide	13463-67-7	<1%

\*Frit, CAS # 65997-18-4, is a complex mixture of materials, fused into a glassy substance, confining the materials into a non-migratory form. \*\*Proprietary blends of pigments used that are not considered a hazard; follow guidelines set for silica as a precaution.

### Section 4 - First Aid Measures

#### First-Aid Measures

<b>Eye Contact</b>	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.
<b>Skin Contact</b>	Remove contaminated clothing. Wash affected area with soap and warm water. Obtain medical attention if irritation persists.
<b>Inhalation</b>	Move victim to fresh air in well ventilated area. If coughing or irritation persists, seek medical attention.
<b>Ingestion</b>	Rinse mouth. Give 200-300mL water to drink. Do NOT induce vomiting. If ingested, seek medical attention as a precaution.
<b>General</b>	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical attention.

#### Symptoms and Effects, both Acute and Delayed

<b>Eye Contact</b>	Prolonged contact with large amounts of dust may cause mechanical irritation. Glaze is abrasive and may scratch eyes.
<b>Skin Contact</b>	Prolonged contact with large amounts of dust may cause mechanical irritation.
<b>Inhalation</b>	Inhalation of high concentrations of dry glaze 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.
<b>Other injuries</b>	Causes damage to organs through prolonged or repeated exposure (inhalation) from dust.

**Section 5 - Fire Fighting Measures**

<b>General Fire Hazards</b>	Glaze 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.
<b>Extinguishing Media</b>	Use appropriate extinguishing media for surrounding fire.
<b>Chemical Hazards from Fire</b>	Glaze mixture does not contain hazardous decomposition products.
<b>Protective actions and equipment for fire-fighters</b>	Glaze 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>	For dry dusts, use a vacuum to clean up spillage. For liquid spills, use suitable absorbent material and place in disposal containers. If appropriate, use gentle water spray to wet down and minimize dust generation. Spill area can be washed with water. <b>Wear a N-95 face mask when cleaning up dry glaze dust.</b>
<b>Personal Precautions and Personal Protective 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>Wear a N-95 face mask when cleaning up dry glaze dust.</b>
<b>Environmental Precautions</b>	Do not allow spills or wastewater to flow into sewer or waterway.
<b>Emergency Procedures &amp; Methods of Containment</b>	There are no emergency procedures required for this mixture. Place dry glaze dust in a sealed container for re-use or proper disposal.

**Section 7 - Handling & Storage**

<b>Precautions for Safe Handling</b>	Use proper lifting techniques to avoid physical injury. Keep out of direct sunlight. Do not expose to freezing.
<b>Recommendations on the conditions for safe storage</b>	No special storage considerations, but keep in a dry, cool location.

**Section 8 - Exposure Counts/Personal Protection****Airborne Exposure Limits**

Hazardous Ingredient	Wt. % Approx.	CAS#	OSHA PEL* / ACGIH TLV*
Feldspar	20-40%	68476-25-5	5mg/m3 / 2mg/m3 respirable
Crystalline Silica - quartz	15-35%	68476-25-5	0.1mg/m3 / 0.025mg/m3 respirable
Frit	5-20%	65997-18-4	Not Established*
Calcium Carbonate	5-20%	1317-65-3	5mg/m3 / respirable 15mg/m3 / total dust
Kaolin	5-20%	1332-58-7	5mg/m3 / 2mg/m3 respirable 15mg/m3 total dust
Ceramic Pigment	5-20%	Varies	Not Established*
Talc	3-10%	14807-96-6	2mg/m3 / 2mg/m3 respirable
Titanium Dioxide	<1%	13463-67-7	15mg/m3 / 10mg/m3 total dust

\*For values not established, follow guidelines set for silica as a precaution

**Engineering Measures**

Glaze in liquid form poses no health risk and no inhalation risk (dust). Once glaze 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). Not recommended for spray application, but local exhaust system may be used as required to maintain exposures below applicable occupational exposure limits (TLV) while spraying.

**Personal Protective Equipment (PPE)****Respiratory****N-95 face mask**

Dust is generated when working with dry glaze mixture. To minimize exposure to dust and/or crystalline silica, cutting or sanding dry clay/glaze 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.

**Local Exhaust**

When dry sanding or grinding clay/glaze products, or during spray application of glaze, use sufficient local exhaust to reduce the level of respirable dust to the applicable standards set forth in Section III. See ACGIH "Industrial Ventilation, A Manual of Recommended Practice," latest edition.

**Eyes**

Use of NIOSH/OSHA approved safety glasses with side shields is recommended. Face shields should also be used when dry sawing clay/glaze 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.

**Hygienic Practices**

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.

**Section 9 - Physical & Chemical Properties**

<b>Appearance</b>	Liquid/dry	<b>Evaporation</b>	No data available
<b>Color</b>	Various Colors	<b>Solubility in water at 100 C</b>	None
<b>Physical state</b>	Liquid/dry glaze	<b>Decomposition temperature</b>	Not Applicable
<b>pH</b>	6-8	<b>Viscosity</b>	Not Applicable
<b>Odor</b>	Earthy odor	<b>Flash point</b>	Not Applicable
<b>Odor threshold</b>	Not Applicable	<b>Boiling Point</b>	100°C (212°F)
<b>Melting Point</b>	> 982 °C (>1800°F)	<b>Flammability</b>	Not Applicable
<b>Freezing Point</b>	< 0 °C (<32°F)	<b>Vapor Pressure (mm HG)</b>	Not Applicable
<b>Relative density/Specific Gravity</b>	10.8-15.0 lb/gal (liquid) 1.3-1.8	<b>Vapor Density</b>	Not Applicable
		<b>Partition coefficient</b>	Not Applicable
		<b>Auto-ignition temp</b>	Not Applicable

**Section 10 - Stability & Reactivity**

<b>Reactivity</b>	No dangerous reactions are known under normal conditions of use.
<b>Chemical Stability</b>	Stable at standard temperature and pressure. No stabilizers required to maintain chemical stability.
<b>Possibility of Hazardous Reactions and Conditions to Avoid</b>	None known
<b>Incompatibility / Hazardous decomposition products</b>	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 glaze 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

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

Chemicals with Carcinogen Potential	CAS#	OSHA	IARC	NTP
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

IARC - International Agency for Research on Cancer  
 1 = Carcinogenic to humans  
 2A = Probably carcinogenic to humans  
 2B = Possibly carcinogenic to humans

OSHA - Occupational Safety & Health Administration  
 NTP - National Toxicology Program

## Section 12 - Ecological Information

<b>Ecotoxicity</b>	Harmful to fish
<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

### General Notes:

Prevent from entering drains, sewers and waterways. Zinc compounds may be hazardous to the environment and aquatic life, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

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

<b>Personal protection appropriate</b>	Refer to section 8 for proper PPE when disposing of ceramic waste material.
<b>Disposal containers appropriate</b>	Standard waste disposal containers - no special requirements.
<b>Disposal methods</b>	<p>Disposal of this product should comply with the requirements of environmental protection and waste disposal legislation and any regional or local authority requirements.</p> <p>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.</p>
<b>Physical and chemical properties that may affect disposal</b>	Dry glaze dust should be placed in a sealed container or in a manner that reduces or eliminates the release of the product. Liquid glaze should be placed in suitable container. Packaging should be recycled before disposal.
<b>Sewage disposal</b>	Do not dispose of into sinks or toilets. They will clog. 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
<b>DOT Classification</b>	Not regulated	—	—	—	—	—
<b>TDG Classification</b>	Not regulated	—	—	—	—	—
<b>ADR/RID Class</b>	Not regulated	—	—	—	—	—
<b>IMDG Class</b>	Not regulated	—	—	—	—	—
<b>IATA-DGR Class</b>	Not regulated	—	—	—	—	—

**Section 15 - Regulatory Information (non-mandatory)****TSCA - Toxic Substances Control Act - EPA**

Quartz, Talc and Titanium Dioxide 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)****Definitions**

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>CAS</b>	Chemical Abstract Service
<b>CAL-OSHA</b>	California Occupational Safety & Health Administration
<b>IARC</b>	International Agency for Research on Cancer
<b>OSHA</b>	Occupational Safety & Health Administration
<b>MSHA</b>	Mine Safety and Health Administration
<b>NIOSH</b>	National Institute of Occupational Safety and Health
<b>NTP</b>	National Toxicology Program

<b>HCS</b>	Hazardous communication standard
<b>OSHA PEL</b>	OSHA permissible exposure limit
<b>STEL</b>	Short-term exposure limit
<b>TLV</b>	Threshold limit value
<b>TWA</b>	Time weighted average

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 8h/day, 40h/week work schedule.
<b>TLV-STEL</b>	Short-term exposure limit - spot exposure for a duration of 15 minutes, that cannot 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 : 6/16/2017

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