

8/30/13

MATERIAL SAFETY DATA SHEET



PRODUCT / MATERIAL: CLAY
MANUFACTURER / DISTRIBUTOR: ARMADILLO CLAY & SUPPLIES
ADDRESS: 3307 E 4th St., Austin, TX 78702
PHONE / FAX / EMAIL: (512) 385-7311 / (512) 385-1152

I - PRODUCT INFORMATION

TRADE NAME: Terra Cotta Casting Slip
CHEMICAL FAMILY: Ceramic Clay

II - HAZARDOUS INGREDIENTS

Table with 5 columns: INGREDIENT NAME, CAS NUMBER, OSHA PEL TWA: (mg/m3), NIOSH REL TWA: (mg/m3), ACGIH TLV TWA: (mg/m3). Rows include Silica, crystalline (Quartz), Hydrous Magnesium Silicate -Talc (non asbestiform), Barium Carbonate, Calcium Carbonate, and Iron Oxide.

III - PHYSICAL DATA

BOILING POINT (°F) Not Applicable
VAPOR PRESSURE Not Applicable
VAPOR DENSITY Not Applicable
SOLUBILITY IN WATER Insoluble
SPECIFIC GRAVITY 1.7 - 3.7
PERCENT VOLATILE BY WEIGHT 0
EVAPORATION RATE 0
APPEARANCE AND ODOR Color varies between moist and dry state; no odor.

IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT Not Flammable
EXTINGUISHING MEDIA Water
UNUSUAL FIRE OR EXPLOSION HAZARDS None
SPECIAL FIRE FIGHTING PROCEDURES None

V - REACTIVITY DATA

STABILITY FACTOR Product is stable.
INCOMPATIBILITY None
HAZARDOUS DECOMPOSITION PRODUCTS None. Hazardous polymerization will not occur.
CONDITIONS TO AVOID Inhalation of dust.

**VI – HEALTH HAZARD DATA**

- Silica, Crystalline (quartz)

A single exposure will not result in serious health effects.

Inhalation of crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans. There are some studies that show excess numbers of cases of scleroderma and other connective tissue disorders in workers exposed to respirable crystalline silica. Silicosis increases the risk of tuberculosis. There are some studies that show an increased incident of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

- Barium Carbonate

Acute overexposure will cause severe abdominal pain, violent purging with watery and bloody stools, vomiting, muscle twitching, hypertension, and confusion followed by transient muscle paralysis including fatal paralysis of the respiratory muscles. Barium is eliminated from the body over several days. Chronic overexposure may lead to varying degrees of paralysis of the extremities; hypertension may also be present. Symptoms of overexposure will disappear over several days as the body eliminates barium, primarily in the feces.

Hypokalemia is usually present in cases of overexposure; potassium should be administered – large doses may be required.

(Quantities of Barium Carbonate used in clay bodies are so low that toxic reactions are rare for those who do not have hypersensitivity conditions.)

- Hydrous Magnesium Silicate -Talc (non asbestiform)

Fibrotic pneumoconiosis; irritation to eyes.

- Calcium Carbonate

No acute effects. Calcium carbonate is listed as non-hazardous for skin contact, skin absorption, ingestion and is a nuisance dust in eye contact. Prolonged breathing of excessive dust may effect lung function. This product contains small amounts of crystalline silica. Inhalable crystalline silica from occupational sources is considered a human carcinogen. Use dust mask in dusty areas.

- Iron Oxide

Acute inhalation of dust may cause mechanical irritation to the respiratory tract. Skin and eye contact may cause a mechanical abrasion irritation. Long term exposure to silica causes silicosis, a form of pulmonary fibrosis.

**PRIMARY ROUTES OF ENTRY:** Inhalation (dry form only), ingestion and dermal. Armadillo Clays in their moist form do not present an inhalation health hazard as evaluated under ASTM 4236.

**SUMMARY OF RISKS:** Individuals with a lung disease/condition (e.g. bronchitis, emphysema, chronic pulmonary disease) can be aggravated by exposure.

**EMERGENCY FIRST AID:** No specific first aid is necessary since the adverse health effects associated with this mixture results from chronic exposures.

|                   |   |
|-------------------|---|
| Eye Contact       | May be an irritant, flush eyes with generous amounts of water for at least 15 minutes; call physician if irritation persists. |
| Skin Contact      | May cause local dermatitis, which is relieved when removed.   |
| Ingestion         | Toxicity due to ingestion is low.   |
| Inhalation        | Remove to fresh air, call a physician if irritation due to inhalation persists.   |
| Physician's Note: | None.   |

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### VII – PRECAUTIONS FOR SAFE HANDLING AND USE

|                             |  |
|-----------------------------|--|
| Spill or Release Procedures | Follow normal clean-up procedures. Care should be taken to avoid causing dust to become airborne. Vacuum or use wet clean-up techniques. |
| Waste Disposal Procedures   | Dispose material in accordance with Federal, State, and Local regulations.   |

### VIII – CONTROL MEASURES

Provide adequate ventilation to keep dust or vapor concentrations below acceptable exposure limits. Use gloves as needed for handling material containers. Wear safety glasses when needed. Appropriate respiratory protection may be required to protect from certain dusts. Respirators must be selected and used in accordance with OSHA Subpart 1 of (29 CFR 1910.134).

### IX – TOXICOLOGICAL INFORMATION

This product (and all of its components) is in compliance with the U.S. EPA 15 U.S. C.2604 regulation.

This product is certified as NON-TOXIC, and conforms to ASTM-D4236 and C-1023 under the federal Labeling of Hazardous Art Materials Act (LHAMA). Specific toxicology information on materials is available upon request.

### X – REGULATORY

This product may contain materials that are reportable under Section 313 of the Emergency Planning and Community Right-To-Know Act (Superfund Amendments and Reauthorization Act – SARA), and 40 CFR Part 372.

SARA Title III Data:

These levels are “typical quantities” and may change slightly with different lots.

This product contains substances regulated under California’s Safe Drinking Water and Toxic Enforcement Act (Proposition 65).

### XI – DISCLAIMER

The information provided in this MSDS document has been provided to Armadillo Clay & Supplies by its material suppliers and is represented by those suppliers as accurate and reliable.

Armadillo Clay & Supplies is not liable for injury, loss, or damage, direct or consequential, arising out of the use or inability to properly use this product. This product is intended only for use in traditional ceramic applications.

This MSDS conforms to the ASTM D-4236 and C-1023 requirements defined by LHAMA, the Federal Labeling of hazardous Art Materials Act. LHAMA was developed by the American Society of Testing and Materials (ASTM) to ensure the proper labeling of art materials.