



# SAFETY DATA SHEET (SDS)

## Section 1 - Identification

<b>Product Name</b>	<b>RAKU</b>
<b>Common Names</b>	Pottery Clay, Modeling Clay, Moist Clay
<b>Company/ Manufacturer</b>	Armadillo Clay and Supplies 3307 E 4 <sup>th</sup> St Austin, TX 78702 Ph (512) 385-7311 fax (512) 385-1152
<b>Emergency Number</b>	911
<b>Product Use</b>	Non-exhaustive list: pottery, sculpture, ceramic building materials
<b>Restrictions on Use</b>	None applicable

## Section 2 - Hazardous Identification

### **Classification of the substance or mixture**

<b>Physical hazards</b>	Not Classified
<b>Health hazards</b>	Not Classified
<b>Environmental hazards</b>	Not Classified

### **Label elements**

<b>Hazard statements NC</b>	Not Classified
<b>Other hazards</b>	None present.

## Section 3 – Composition / Information on Ingredients

<b>Mixtures</b>	<i>Mixture – A trade secret claim is made for this item.</i>
<b>Composition comments</b>	

## Section 4 – First Aid Measures

### **Description of first aid measures**

<b>Inhalation</b>	Unlikely route of exposure as the product does not contain volatile substances. Move victim to fresh air in well ventilated area. If coughing or irritation persists, seek medical attention.
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**Ingestion** Do not induce vomiting. Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Get medical attention if any discomfort continues.

**Skin Contact** Wash skin thoroughly with soap and water. If irritation persists, seek medical attention.

**Eye contact** Rinse with water. If irritation persists, seek medical attention.

### **Most important symptoms and effects, both acute and delayed**

**Inhalation** Read Section 2 for any specific precautions associated with this product. In general, breathing any type of dust/mist can and may aggravate irritation of the throat and lungs.

**Ingestion** Read Section 2 for any specific precautions associated with the use of this product. Large quantities ingested may cause gastrointestinal irritation.

**Skin contact** Read Section 2 for any specific precautions associated with the use of this product. In general, most ceramic glazes, clays and special products will tend to have a drying effect on the skin and may cause some sensitivity to users with sensitive skin.

**Eye contact** Read Section 2 for any specific precautions associated with the use of this product. In general, most ceramic and special products contain materials that maybe abrasive to eyes. Keeping materials from contacting the eyes is prudent. If contact does occur, flush with clean water, do not rub.

### **Indication of immediate medical attention and special treatment needed**

Notes for the doctor Treat symptomatically.

## Section 5 – Fire Fighting 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**

**Suitable extinguishing media** Use fire-extinguishing media suitable for the surrounding fire.

### **Special hazards arising from the substance or mixture**

**Specific hazards** The product is not believed to present a hazard due to its physical nature.

### **Advice for firefighters**

Clay mixture and packaging can become slippery when wet. Use protective equipment appropriate for surrounding materials

## Section 6 – Accidental Release Measures

<b>Clean-up Methods</b>	If appropriate, use gentle water spray to wet down and minimize dust generation.
<b>Personal Precautions and Personal Protective Equipment</b>	Wear appropriate protective equipment and clothing during clean-up. When dry sweeping use NIOSH approved respirator 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 &amp; Methods of Containment</b>	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

<b>Precautions for safe handling</b>	Use proper lifting techniques to avoid physical injury.
<b>Recommendations for safe storage</b>	No special storage considerations. Do not store moist clay mixture below freezing point (< 0 °C or < 32°F).

## Section 8 – Exposure Counts / Personal Protection

<b>Ingredient comments</b>	Only ingredients listed in Section 3 are notifiable for this product. If none are shown, then all ingredients are exempt.
<b><u>Exposure controls</u></b> <b>Appropriate engineering Controls</b>	No specific ventilations requirements unless the “FAN” pictogram is shown above or specified in Section 2.
<b>Eye/face protection</b>	No specific eye protection required unless the "EYE PROTECTION" pictogram is shown above or specified in Section 2.
<b>Hand protection</b>	No specific hand protection required unless the “HAND PROTECTION” pictogram is shown above or specified in Section 2.

**Hygiene measures** Using good personal hygiene practices is always appropriate. Keeping a clean work space, cleaning up properly when done, and not eating, drinking or smoking when using this product.

**Respiratory protection** No specific respiratory protection required unless the “RESPIRATOR” pictogram is shown above or specified in Section 2. Using the appropriate certified protection for the operation is important if required.

**Section 9 – Physical and Chemical Properties**

<b>Appearance</b>	Lump/dry powder or moist mud brick	<b>Decomposition temperature</b>	Not Applicable
<b>Color</b>	White, tan	<b>Viscosity</b>	Not Applicable
<b>Physical state</b>	Solid	<b>Flashpoint</b>	Not Applicable
<b>pH</b>	6 – 8	<b>Boiling Point</b>	Not Applicable
<b>Odor</b>	Earthy odor	<b>Flammability</b>	Not Applicable
<b>Odor threshold</b>	Not Applicable	<b>Vapor Pressure (mm HG)</b>	Not Applicable
<b>Melting Point</b>	> 1200 °C (>2150°F)	<b>Vapor Density</b>	Not Applicable
<b>Freezing Point</b>	< 0 °C (<32°F)	<b>Partition coefficient</b>	Not Applicable
<b>Relative density /Specific Gravity</b>	~2.6 gm/cc	<b>Auto-ignition temp</b>	Not Applicable
<b>Solubility in water at 100 C</b>	None		

**Section 10 – Stability and Reactivity**

**Reactivity** No dangerous reactions are known under normal conditions of use

**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

<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 tract.
<b>Specific Organ Toxicity – Repeated Exposure</b>	Causes 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 clay dust 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 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.
<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 gastrointestinal disorders may have increased susceptibility to the effects of exposure.

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

<b>Ecotoxicity</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 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 clay dust should be placed in a sealed container or in a manner that reduces or eliminates 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 – Transportation Information (non-mandatory)

<b>General</b>	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DoT).
<b>UN Number</b>	Not applicable.
<b>UN proper shipping name</b>	Not applicable.
<b>Transport hazard class(es)</b>	No transport warning sign required.
<b>Packing group</b>	Not applicable.
<b>Environmental hazards</b>	Please refer to Section 2 for any environmental hazards associated with this product. If H411/H412 warnings are shown then please verify packaging and labeling requirements for larger volumes.
<b>Environmentally Hazardous Substance</b>	
<b>Special precautions for user</b>	Not applicable.
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable.

## Section 15 – Transportation Information (non-mandatory)

### **US State Regulations**

California Proposition 65 Carcinogens and Reproductive Toxins

None of the ingredients are listed or exempt.

### **Inventories**

**Canada - DSL/NDSL** All the ingredients are listed or exempt.

**US – TSCA** All the ingredients are listed or exempt.

**US - TSCA 12(b) Export** All the ingredients are listed or exempt.

**Notification**

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

### **General information**

The following are the top 5 materials by weight listed for New Jersey (if applicable):- Hydrated Aluminum Silicate1332-58-7, Kaolin Clay1332-58-7, Water7732-18-5, Feldspar68476-25-5 Crystalline Silica14808-60-7

**Revision date** 7/7/2016

**Revision** 1

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.