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# MATERIAL SAFETY DATA SHEET

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## SECTION 1 - IDENTIFICATION OF SUBSTANCE & COMPANY PREPARING INFORMATION

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**Identity:** Rainbow Air-dry Clay all colors  
**Manufacturer's Name:** Minnesota Clay  
**Address:** 2960 Niagara Lane, Plymouth, MN 55447  
**Tel Phone:** (763) 432-0875  
**Emergency Tel:** None  
**Date Prepared:** December 16, 2014  
**Replaces MSDS dated:** N/A

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## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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INGREDIENTS	CAS NUMBER	EXPOSURE LIMITS (mg/m <sup>3</sup> )		LD <sub>50</sub> mg/kg	LC <sub>50</sub> mg/m <sup>3</sup>
		PEL	TLV		
*Silica (Quartz)	14808-60-7	<u>10mg/m<sup>3</sup></u> %Silica+2	0.025	NA	NA

\*Harmful only when prolonged & excessive respiration of dry, airborne materials occurs. This product has been certified AP Non-Toxic and labeling conforms to ASTM D-4236.

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## SECTION 3 - HAZARD IDENTIFICATION

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Primary Route of Entry - Inhalation (dry form only), ingestion and dermal.

Hazards - May cause skin and eye irritation, Lung effects including cancer, silicosis

Silica, Crystalline (Quartz)

A single exposure will not result in serious adverse health effects.

Respirable 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. Some studies that show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

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#### **SECTION 4 - FIRST-AID MEASURES**

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Inhalation - Remove from exposure.  
Dermal - Wash skin with soap and water.  
Eye - Flush eyes with large quantities of water for at least 15 minutes. If irritation is present after washing, contact a physician.  
Ingestion- Do not induce vomiting, contact a physician.

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#### **SECTION 5 - FIRE-FIGHTING MEASURES**

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Special Fire-Fighting Procedure - None  
Unusual Fire or Explosion Hazards - None  
Extinguishing Media - None  
Hazardous Combustion Products - Unknown

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#### **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

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Procedures for Leaks or Spills - place in suitable container, and provide adequate ventilation. Wear personnel protective equipment (Goggles, glove, personal protective clothing).

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#### **SECTION 7 - HANDLING AND STORAGE**

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Engineer Control - use adequate ventilation  
Procedure/Equipment - OSHA approved mask for dusts.  
Local Exhaust - Suggested for fugitive dust.  
Work Practices - use with adequate ventilation, avoid skin, eye and inhalation contact, wash hands. No smoking should be allowed in the work area.  
Storage - Store in a cool well-ventilated area.

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#### **SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION**

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Engineering Measures - provide adequate ventilation  
Personal Protective Equipment - wear chemical safety goggles, protective chemical resistant gloves, appropriate protective clothing

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## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

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Appearance - Colored solid, moist clay	Percent Volatile - N/A
Explosive Properties - N/A	Vapor Density - N/A
Odor and Odor Threshold - N/A	Applicable Evaporation Rate - N/A
Partition Coefficient - N/A	Melting/Softening Point - None
pH - N/A	Freezing Point - N/A
Oxidizing Properties - N/A	Specific Gravity - N/A
Boiling Point - N/A	Flash Point - N/A
Solubility in Water - No	Flammable Limits - N/A
Vapor Pressure - N/A	Auto-Ignition Temperature - N/A

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## **SECTION 10 - STABILITY AND REACTIVITY**

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Stability - Stable  
Hazardous Polymerization - None  
Hazardous Decomposition Products - None  
Conditions to Avoid - None  
Incompatibility - None

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## **SECTION 11 - TOXICOLOGICAL INFORMATION**

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Hazard to Humans - There is no toxicity data on this mixture. Likely to be a skin and eye irritant.  
Inhalation of dust may cause lung effects.  
Animal Experiment - There is no toxicity data on this mixture  
Acute - Likely to be a skin and eye irritant  
Chronic/Other - Inhalation may cause lung effects. Contains quartz, which can cause silicosis and is a potential carcinogen.

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## **SECTION 12 - ECOLOGICAL INFORMATION**

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No specific information available.

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## **SECTION 13 - DISPOSAL INFORMATION**

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Dispose according to local regulations. No specific information available.

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**SECTION 14 - TRANSPORTATION INFORMATION**

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No specific information available.

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**SECTION 15 - REGULATORY INFORMATION**

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Ingredients are listed on TSCA, DSL and EINECS inventories.  
Quartz is listed on IARC, NTP, OSHA and/or Calif. Prop 65 cancer lists.  
No specific other information available.

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**SECTION 16 - OTHER INFORMATION**

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Avoid breathing dust.  
No smoking should be allowed in the work area.  
Vent kilns when firing.  
Conforms to ASTM D-4236  
No other specific information available.