

# MATERIAL SAFETY DATA SHEET

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MuleMix 516, MuleMix 816, Playmaker Updated September 16, 2009



## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Soil Amendments: MuleMix 516, 816, Playmaker

**Product use:** MuleMix Field Conditioners

**Product Advantages:** Calcined Clay material is native to the North Mississippi area. It is baked at 1200-1400 degrees and screened at different sizes to provide materials for different applications. Absorbs moisture. Reduces compaction of your infield Mix. It can be used daily as an infield topdressing material Helps create the ideal amount of fluff on top to allow for firm footing, but true hops

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## 2. COMPOSITION / INFORMATION ON INGREDIENTS:

<u>Chemical Name</u>	<u>Percent</u>	<u>CAS Number</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>
Montmorillonite Clay	87 - 90%	70892-59-0	10 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
Crystalline Silica (Quartz)	7 - 10%	14808-60-7	0.1 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
Crystalline Silica (Cristobolite)	<3%	14464-46-1	0.05 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
Particulate Not otherwise regulated	-	NA	NA	NA

Note: This product contains sand, clay, and decomposed organic matter. The crystalline silica (quartz) content naturally varies depending on the composition of the soil. These materials are mined from the earth. Trace amounts of naturally occurring elements might be detected during chemical analysis of these materials.

California Prop 65: This product does contain ingredients which are known to the state of California to cause cancer, birth defects, or other reproductive harm. Crystalline Silica as quartz CAS# 14808-60-7

**HAZARDS DISCLOSURE:** This product contains known hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200. As defined under Sara 311 and 312, this product contains known hazardous materials.

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## **3. HAZARDS IDENTIFICATION**

### **EMERGENCY OVERVIEW:**

**Warning!** Product dust may cause eye, skin and respiratory irritation. This product contains crystalline silica which is known to cause cancer, birth defects or other reproductive harm to humans when exposed to levels above permissible levels.

NFPA Rating: Health - 1, Flammability - 0, Reactivity - 0  
NFPA Definitions: (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme).

### **Potential Health Effects:**

**Inhalation:** This product may represent an inhalation hazard with creation of respirable dust.

**Ingestion:** Small quantities this product does not represent an ingestion hazard. Large quantities can cause intestinal distress.

**Skin Contact:** Dust maybe irritating to skin, abrasions and dry skin.

**Eye Contact:** Dust may cause irritation or inflammation.

**Chronic Exposure:** Risk of injury depends on duration and level of exposure. Prolonged or repeated inhalation of respirable crystalline silica at or above allowable occupational exposure limits may lead to the development of silicosis.

**Aggravation of Pre-existing Conditions:** Pre-existing skin and respiratory problems.

**Carcinogenicity:** Crystalline Silica is listed by the NTP, IARC, or regulated by OSHA as a carcinogen.

## **4. FIRST AID MEASURES**

**Inhalation:** Remove to fresh air if exposed to large amounts of dust. Seek medical attention for discomfort or if coughing or other symptoms do not subside.

**Ingestion:** Do not induce vomiting. Seek medical attention or contact poison control center immediately.

**Skin Contact:** Wash thoroughly with soap and water. Seek medical attention for rash or irritation.

**Eye Contact:** Immediately flush eyes with large amounts of water for at least 15 minutes. Seek medical attention if irritation of blurred vision occurs.

## **5. FIRE FIGHTING MEASURES**

**Flash Point (PMCC):** Not Flammable

**Auto-ignition temperature:** Not Applicable

**Flammable limits in air % by volume:**

LEL: Not Applicable

UEL: Not Applicable

**Explosion:** N/A

**Fire Extinguishing Media:** Use any means suitable for extinguishing surrounding fire.

**Special Fire Fighting Procedures:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

## **6. ACCIDENTAL RELEASE MEASURES**

If uncontaminated, product it can be reused. Avoid actions that cause dusts to become airborne. Avoid inhalation of dust. Do not wash product down sewage and drainage systems or into bodies of water.

## **7. HANDLING AND STORAGE**

**Storage Temperature (min/max):** NA

**Shelf Life:** N/A

**HANDLING (PERSONNEL):** Handle in accordance with good hygiene and safety procedures.

**STORAGE PRECAUTIONS:** Store product separately from feed, food, pesticides and fertilizers so that cross contamination does not occur. Heat may be generated from a stockpile of product due to natural decomposition of organic materials.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Airborne Exposure Limits:

Airborne Exposure Limits: Crystalline Silica Dust	OSHA PEL	ACGIH TLV
Respirable Fraction	5 mg/m <sup>3</sup>	0.1 mg/m <sup>3</sup>

**Ventilation System:** Always work in a well ventilated area.

**Personal Respirators (NIOSH Approved):** None required if dust is below permissible exposure levels.

**Skin Protection:** Observe good industrial hygiene practices.

**Eye Protection:** Always wear safety glasses when working with this product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

FORM: Solid	COLOR: Reddish Brown
ODOR: Odorless	SPECIFIC GRAVITY: 2.2
SOLUBILITY IN WATER: <2.0%	PH: >2.0
MELTING/FREEZING POINT: N/A	BOILING POINT: N/A
EVAPORATION RATE (BuAc=1): N/A	VISCOSITY: N/A
AUTOIGNITION TEMPERATURE: N/A	VAPOR DENSITY (Air=1): N/A
% VOLATILES BY VOLUME @ 21°C (70°F): N/A	VAPOR PRESSURE (mm Hg): N/A
VOLATILE ORGANIC COMPOUNDS (VOC #/gal): N/A	

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under ordinary conditions of use and storage.

**Hazardous Decomposition Products:** None

**Hazardous Polymerization:** Will not occur.

**Incompatibilities:** None known.

**Conditions to Avoid:** None known.

## 11. TOXICOLOGICAL INFORMATION

### Toxicity Data:

This product contains sand, clay, and decomposed organic matter. The crystalline silica (quartz) content naturally varies.

### Cancer Lists

#### Ingredient

Crystalline Silica

---NTP Carcinogen---

Known

Anticipated

IARC Category

YES

YES

Group 1

## 12. ECOLOGICAL INFORMATION

**Environmental Fate:** No Data Available

**Environmental Toxicity:** No Data Available

## 13. DISPOSAL CONSIDERATIONS

Dispose of all materials in accordance with federal, state and local requirements.

## 14. TRANSPORTATION INFORMATION

Domestic (Land, D.O.T.) International (Water, I.M.O. & Air, I.C.A.O.)

SHIPPING NAME: Non-Regulated Material

PRODUCT LABEL: NA UN NUMBER: N/A

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## 15. REGULATORY INFORMATION

### Federal, State & International Regulations

Ingredient	SARA 302		List	-SARA 313- Chemical Catalog	CERCLA	RCRA 261.33	TSCA 8(d)
	RQ	TPQ					
Montmorillonite Clay	NO	NO	NO	NO	NO	NO	NO
Silt	NO	NO	NO	NO	NO	NO	NO
Sand	NO	NO	NO	NO	NO	NO	NO
Fine Gravel	NO	NO	NO	NO	NO	NO	NO

**Chemical Weapons Convention:** No **TSCA 12(b):** No **CDTA:** No

**SARA 311/312:** Acute: YES; Chronic: YES; Fire: NO; Pressure: NO; Reactivity: NO (Mixture / Liquid)

**Australian Hazchem Code:** None allocated **Poison Schedule:** None allocated.

**WHMIS:** This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

**Soil may be subject to WHMIS depending on the intended use and workers exposure.** Product containing crystalline Silica is classified as D2A and is subject to WHMIS requirements.

This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA). This material or all of its components are listed on the Canadian Domestic Substances List (DSL). This material or all of its components are listed (or considered as having been notified) on the European Inventory of Existing Chemical Substances (EINECS). Other inventory lists: ENCS (Japan), Korea, Australia, China (Draft), PICCS (Philippines), Japan (ENCS).

## 16. OTHER INFORMATION

Prepared By: Paul Eigbrett;  
Supersedes Date: New

Approval Date: September 08, 2009

This Material Safety Data Sheet (MSDS) has been reviewed to fully comply with the guidance contained in the ANSI MSDS standard (ANSI Z400.1-2004).

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