

# MATERIAL SAFETY DATA SHEET



## **HI-DRI**

### **1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:** HI-DRI

**Product use:** Oil Absorbent

**Product Advantages:** Montmorillonite clay, mined in Middleton, Tennessee, is highly absorbent and nonflammable. It absorbs liquids, including most oils, water, mixtures of soluble oils and water, grease, gas, acids, inks and paints. Montmorillonite clay naturally cleans up spills and reduces hazards.

**Company Identification:** Moltan Company.  
7125 Riverdale Bend Road  
Memphis, Tennessee  
800.264.5826 or 901-755-5666 (For Product Information)  
901.757.0546 fax  
[www.moltan.com](http://www.moltan.com)

### **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, Calcined	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> /%SiO <sub>2</sub> +2
Crystalline Silica (Cristobalite)	<3%	14464-46-1	0.05 mg/m <sup>3</sup>	5 mg/m <sup>3</sup> /%SiO <sub>2</sub> +2

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 (Quartz) CAS# 14808-60-7 and Crystalline Silica (Cristobalite) CAS# 14464-46-1

**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.

### **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.

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**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 face piece operated in the pressure demand or other positive pressure mode.

## **6. ACCIDENTAL RELEASE MEASURES**

If uncontaminated, product can be reused. Avoid actions that cause dust 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.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **Airborne Exposure Limits:**

Airborne Exposure Limits Crystalline Silica (Quartz) Dust

OSHA PEL

ACGIH TLV

Respirable Fraction

5 mg/m<sup>3</sup>/%SiO<sub>2</sub>+2

0.1 mg/m<sup>3</sup>

Airborne Exposure Limits: Crystalline Silica (Cristobalite) Dust

OSHA PEL

ACGIH TLV

Respirable Fraction

5 mg/m<sup>3</sup>/%SiO<sub>2</sub>+2

0.05 mg/m<sup>3</sup>

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**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

**ODOR:** Odorless

**SOLUBILITY IN WATER:** <1.0%

**BOILING POINT:** N/A

**VISCOSITY:** N/A

**VAPOR DENSITY (Air=1):** N/A

**VOLATILE ORGANIC COMPOUNDS (VOC #/gal):** N/A

**COLOR:** Tan to gray

**SPECIFIC GRAVITY:** 2.2

**MELTING/FREEZING POINT:** N/A

**EVAPORATION RATE (BuAc=1):** N/A

**AUTOIGNITION TEMPERATURE:** N/A

**VAPOR PRESSURE (mm Hg):** 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:** Unsaturated organic compounds, such as turpentine and vegetable oil, and hydrofluoric acid, may generate heat upon mixing with dry clay.

**Conditions to Avoid:** Incompatible materials.

## **11. TOXICOLOGICAL INFORMATION**

### **Toxicity Data:**

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

### **Cancer Lists**

#### **Ingredient**

Crystalline Silica (Quartz)

Crystalline Silica (Cristobalite)

---NTP Carcinogen---

Known

Anticipated

IARC Category

YES

YES

Group 1

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	<u>SARA 302</u>		<u>List</u>	<u>-SARA 313-</u>	<u>CERCLA</u>	<u>RCRA</u>	<u>TSCA</u>
	<u>RQ</u>	<u>TPQ</u>		<u>Chemical Catalog</u>		<u>261.33</u>	<u>8(d)</u>
Montmorillonite Clay	NO	NO	NO	NO	NO	NO	NO
Crystalline Silica (Quartz)	NO	NO	NO	NO	NO	NO	NO
Crystalline Silica (Cristobalite)	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)

#### **California Prop 65:**

WARNING! This product does contain ingredients, which are known to the state of California to cause cancer, birth defects, or other reproductive harm. Crystalline Silica (Quartz) CAS# 14808-60-7 and Crystalline Silica (Cristobalite) CAS# 14464-46-1

#### **Canada:**

**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; MSDS Authoring PLUS  
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Approval Date: October 06, 2010

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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