

# MATERIAL SAFETY DATA SHEET

Date Revised: 06/28/08

## I. PRODUCT IDENTIFICATION

**IDENTITY:** CKD (Cement Kiln Dust)

Classification:  
Kiln Dust, Stabilizer

Supplier: DIVERSIFIED MINERALS INC.  
1135 E. Wooley Rd.  
Oxnard CA, 93030  
(805) 247-1069 - Toll Free (888) 364-9595

CHEMTREC: (800) 424-9300  
Poison Center: (800) 356-3129

## II. PRODUCT FORMULA/INGREDIENTS

Major Constituents:

Silicon Dioxide (SiO<sub>2</sub>)

Calcium Oxide (CaO)

Aluminum Oxide (Al<sub>2</sub>O<sub>3</sub>)

Iron Oxide (Fe<sub>2</sub>O<sub>3</sub>)

Sulfur Trioxide (S O<sub>3</sub>)

Small amounts of (MgO), (K<sub>2</sub>OSO<sub>4</sub>), and (Na<sub>2</sub>SO<sub>4</sub>) may also be present.

CAS Numbers:

12168-85-3

10034-77-2

12042-78-3

12068-35-8

7446-11-9

## III. PHYSICAL DATA

|                           |   |  |                            |
|---------------------------|---|--|----------------------------|
| Odor and Appearance:      | Wet stone odor, light tan (or white) fine powder. |  |                            |
| Boiling Point:            | Not applicable                                    | Evaporation Rate:                      | Not applicable             |
| Vapor Pressure:           | Not applicable                                    | Specific Grav. (H <sub>2</sub> O = 1): | 2.7 - 2.9                  |
| Water Solubility:         | Slight (0.1 - 1.0%)                               | Melting Point:                         | Not available              |
| Vapor Density (Air = 1):  | Not applicable                                    | Volatile by Volume:                    | 0%                         |
| pH of Saturated Solution: | Approximately 12.4                                | Est. weight (per 1/ft <sup>3</sup> ):  | 75 - 95 lb/ft <sup>3</sup> |

## IV. FIRE AND EXPLOSION DATA

|   |                |
|---|----------------|
| Flash Point:                                  | Not applicable |
| Flammable Limits:                             | Not applicable |
| Flammable/Combustible Liquid Classifications: | Not applicable |
| Extinguishing Media:                          | Not applicable |
| Unusual Fire or Explosion Hazards:            | None           |
| Auto-Ignition Temperature:                    | Not applicable |
| Special Fire-Fighting Procedures:             | Not applicable |

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**V. HEALTH HAZARDS**

**SUMMARY:** Inhalation of dust should be avoided. The constituents may cause irritation of eyes, skin, and respiratory tract. Ingestion may cause irritation of gastrointestinal tract.

**Threshold Limit Value (TLV):** Respirable Dust - 2 mg/m<sup>3</sup>. Total Dust - 10 mg/m<sup>3</sup>. 30 million Particles/ft<sup>3</sup>.

**Acute Health Effects:** Irritation of eyes, skin, nose, throat, and upper respiratory tract.

**Primary Entry Routes:** Inhalation or ingestion.

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**VI. REACTIVITY DATA**

**Chemical Incompatibility:** Strong acids and Fluorine.

**Decomposition Products:** Oxides and Carbon Dioxide.

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**VII. SPILL OR LEAK PROCEDURES**

**Procedures for Spills:** Avoid creation of excessive dust. Wear appropriate personal protective equipment as described in Section VIII, if potential for exposure to excessive dust concentrations.

**Waste Management:** Use for intended purpose, if possible, otherwise material should be disposed of in accordance with all federal, state, and local regulatory requirements. Take appropriate precautions to prevent excessive exposure to dust by transport or disposal site personnel.

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**VIII. SPECIAL PROTECTION INFORMATION**

**Goggles:** Tight-fitting safety goggles should be worn by persons handling this material where ventilation is inadequate.

**Skin Protection:** Use barrier creams, gloves, boots and clothing to protect the skin from prolonged contact.

**Respirator:** An appropriate NIOSH approved respirator should be worn where ventilation is inadequate or dust concentration may exceed TLV.

**Ventilation:** Use local or general exhaust ventilation to keep dust levels as low as possible.

**Other:** Engineering controls and operating procedures should be designed to reduce airborne dust concentrations to a minimum.

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**IX. SPECIAL PRECAUTIONS**

|   |  |
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| Storage Segregation Hazard Classes:     | Alkaline   |
| Special Handling Storage:               | Avoid storage with incompatible materials noted in Section VI. |
| Special Workplace Engineering Controls: | Work practices should minimize dust. Refer to Section VIII.    |

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**X. ABBREVIATIONS**

CAS - Chemical Abstract Service

NIOSH - National Institute for Occupational Safety & Health

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