

# MATERIAL SAFETY DATA SHEET

Date Revised: 05/12/07

## I. PRODUCT IDENTIFICATION

**IDENTITY:** Trona Fly Ash (Fly Ash)

Classification:  
Pozzolan, Cement additive

Supplier: DIVERSIFIED MINERALS INC.

Address: 1135 E. Wooley Rd.  
Oxnard CA, 93030

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

Telephone #: (805) 247-1069

## II. PRODUCT FORMULA/INGREDIENTS

<u>Major Constituents</u>	<u>Other Limits (Weight %)</u>	<u>TLV</u>
Alumina (Al <sub>2</sub> O <sub>3</sub> )	10 - 15	5 mg/m <sup>3</sup>
Calcium Oxide (CaO)	5 - 11	2 mg/m <sup>3</sup>
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )	2 - 5	5 mg/m <sup>3</sup>
Silica (SiO <sub>2</sub> )	59 - 63	0.1 mg/m <sup>3</sup>

## III. PHYSICAL DATA

Odor and Appearance:	Wet stone odor, light gray (tan or brown), fine to coarse powder.		
Boiling Point:	Not applicable	Evaporation Rate:	Not applicable
Vapor Pressure:	Not applicable	Specific Grav. (H <sub>2</sub> O = 1):	2.37
Water Solubility:	<1.5%	Melting Point:	Not available
Vapor Density (Air = 1):	Not applicable	Volatile by Volume:	Not applicable
pH of Saturated Solution:	Approximately 11.5 - 12	Est. weight (per 1/ft <sup>3</sup> ):	65 - 70 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****A. SUMMARY OF RISK**

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

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

**Target Organs:**               Eyes, skin, and respiratory tract.

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

**Chronic Health Effects:**   Prolonged, excessive exposure to dust may cause pulmonary fibrosis or chronic bronchitis.

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

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**VI. HEALTH HAZARDS****B. SIGNS/SYMPTOMS OF OVER EXPOSURE**

**Inhalation:**                 Coughing, sneezing, wheezing, shortness of breath, or repeated non-specific lung illness.

**Skin Contact:**             Reddening of skin.

**Skin Absorption:**         Not applicable.

**Ingestion:**                Gastro-intestinal pain.

**Eyes:**                     Reddening or watering of eyes.

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**VII. HEALTH HAZARDS****C. FIRST AID/EMERGENCY PROCEDURES**

**Inhalation:**                Remove from exposure to dust and obtain medical attention, if needed.

**Skin Contact:**             Flush skin with large amounts of water.

**Skin Absorption:**         Not applicable.

**Ingestion:**                Obtain medical attention immediately.

**Eyes:**                     Flush eyes with water for 15 minutes and obtain medical attention if needed.

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**IX. REACTIVITY DATA**

Chemical Incompatibility: Strong acids and Fluorine.

Decomposition Products: Oxides and Carbon Dioxide.

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**X. 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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**XI. 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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**XII. SPECIAL PRECAUTIONS**

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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**XIII. ABBREVIATIONS**

CAS - Chemical Abstract Service

NIOSH - National Institute for Occupational Safety & Health

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**Proposition 65 Notice**

**WARNING**

This product may contain detectable amounts of chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

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**Disclaimer of Liability Notice:**

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