

# MATERIAL SAFETY DATA SHEET

Clinoptilolite / Clino Zeolite

MSDS DATE: 12 / 21 / 07

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Clino Zeolite  
SYNONYMS: Clino

MANUFACTURER: ZEOCORP, LLC  
DIVISION: Hines, Oregon  
ADDRESS: 251 Snow Mt. Ave., PO Box 1415, Hines, OR 97738

EMERGENCY PHONE: 541-573-2350  
OTHER CALLS: 541-573-2350  
FAX PHONE: 541-573-2351

CHEMICAL NAME: Sodium-potassium-calcium aluminosilicate  
CHEMICAL FAMILY: Aluminosilicate molecular sieve  
CHEMICAL FORMULA:  $(\text{Na}, \text{K}, \text{Ca})_6(\text{Si}, \text{Al})_{36}\text{O}_{72}\text{H}_2\text{O}$

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

### INGREDIENT:

The  $\text{SiO}_2$  is primarily combined as a complex aluminosilicate mineral (Clinoptilolite) not as a free oxide. However, it may contain a minor amount of silica in the form of quartz. No fibrous particles were present when tested by the Mineral Lab, Inc.

## SECTION 3: HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

ROUTES OF ENTRY: Inhalation

POTENTIAL HEALTH EFFECTS

EYES: Minor eye irritation from too much dust.

SKIN: None

INGESTION: None

INHALATION: Beyond OSHA permissible limit for dust. Remove person to fresh air.

ACUTE HEALTH HAZARDS: None

CHRONIC HEALTH HAZARDS: None

## SECTION 4: FIRST AID MEASURES

EYES: Flush eyes with water for 15 minutes.

SKIN: None

INGESTION: None

INHALATION: Remove person to fresh air away from nuisance dust.

### NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

If this product has been treated with a material of a hazardous nature, identify material and treat accordingly.

## SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE: Non-combustible

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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### ACCIDENTAL RELEASE MEASURES:

It is recommended to ensure compliance with various state's regulations that any major quantities spilled in surface waters be reported to appropriate state officials.

Sweep or scoop up spilled material avoiding nuisance dust. Place in container for "No hazardous materials." May be disposed of in soils if UNCONTAMINATED by a hazardous material. Otherwise, dispose of in a landfill.

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## SECTION 7: HANDLING AND STORAGE

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### HANDLING AND STORAGE:

Should be handled in a manner that avoids generating excessive airborne dust.

OTHER PRECAUTIONS:                      None

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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### ENGINEERING CONTROLS

#### VENTILATION :

Exhaust ventilation is recommended for operations where the permissible exposure limit might be exceeded.

#### RESPIRATORY PROTECTION:

Wear OSHA approved dust respirators to avoid nuisance dust when the permissible exposure limit might be exceeded.

#### EYE PROTECTION:

Safety glasses or goggles should be worn to prevent dust from entering eyes.

SKIN PROTECTION:                      None

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:      None

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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APPEARANCE:                              Off-white

ODOR:                                        None

### PHYSICAL STATE

pH AS SUPPLIED:                        Acid stability: 0-7; Alkali stability: 7-13

BOILING POINT:                          N/A

MELTING POINT:                        2520°F

VAPOR PRESSURE (mmHg):            0

SPECIFIC GRAVITY (H<sub>2</sub>O = 1):        2.2

SOLUBILITY IN WATER:                <0.01%

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## SECTION 10: STABILITY AND REACTIVITY STABILITY:

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Stability:                                    Stable

CONDITIONS TO AVOID (STABILITY):      None

INCOMPATIBILITY (MATERIAL TO AVOID):    None

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:    None

HAZARDOUS POLYMERIZATION:            None

CONDITIONS TO AVOID (POLYMERIZATION):    None