

# Natural Zeolite Safety Data Sheet



## SECTION 1 – IDENTIFICATION

Product Name: Natural Zeolite – Clinoptilolite Mineral  
Trade Names: ZeoSand<sup>®</sup>, Zar-Min<sup>®</sup>, EcoSand<sup>®</sup>, and ZMC-100  
Manufacturer: ZEO, Inc., McKinney, TX • 972-542-0053  
Uses: Filtration media, soil amendment, feed additive (where approved)  
Restrictions: Not for human consumption  
Emergency Phone: +1 972-542-0053 (24 hours)

## SECTION 2 – HAZARD(S) IDENTIFICATION

### Classification

Eye Irritation Category 2B (H320)  
STOT SE Category 3 – Respiratory Irritation (H335)

### Signal Word

WARNING

### Pictogram



### Hazard Statements

H320: Causes eye irritation.  
H335: May cause respiratory irritation.  
Contains trace respirable crystalline silica (<1%).  
Effects are due to mechanical irritation only.

### Precautionary Statements

Avoid breathing dust. Use local or general ventilation.  
Wear safety glasses and N95 respirator if dust levels are elevated.  
Wash hands and face after handling.

## SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Clinoptilolite (CAS 1318-93-0) – 88-97%  
Crystalline Silica (CAS 14808-60-7) – <1% (trace)

## **SECTION 4 – FIRST AID MEASURES**

Inhalation: Move to fresh air. Rinse nose and mouth with water.

Eyes: Flush carefully with water for several minutes.

Skin: Wash skin with water. No expected irritation.

Ingestion: Rinse mouth. No known acute effects.

If symptoms persist, seek medical attention.

## **SECTION 5 – FIRE-FIGHTING MEASURES**

Product is non-combustible. Packaging may burn.

Suitable Extinguishing Media: Use media suitable for surrounding fire.

Protective Equipment: Firefighters should wear SCBA if necessary.

## **SECTION 6 – ACCIDENTAL RELEASE MEASURES**

Avoid the generation of dust. Use mechanical means to collect material.

Avoid sweeping dry if large dust clouds may form—dampen lightly if needed.

Prevent dust from becoming airborne.

## **SECTION 7 – HANDLING AND STORAGE**

Avoid creating airborne dust. Handle with adequate ventilation.

Store dry and protected from moisture.

Minimize dust exposure during transfer or mixing.

## **SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**

OSHA PEL (nuisance dust): 15 mg/m<sup>3</sup> total, 5 mg/m<sup>3</sup> respirable.

Engineering Controls: Use local exhaust ventilation if dusty.

PPE: Safety glasses recommended; N95 respirator if dust is present.

Gloves not normally required.

## **SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Tan granular mineral

Odor: None

Bulk Density: 55 to 90 lbs/ft<sup>3</sup>, depending upon mesh size

Solubility: Insoluble in water

Melting Point: >1000°C (mineral)

## **SECTION 10 – STABILITY AND REACTIVITY**

Stable mineral under normal conditions.

Avoid strong acids, which may react with aluminosilicate minerals.

No hazardous decomposition products under normal use.

## **SECTION 11 – TOXICOLOGICAL INFORMATION**

Inhalation may cause temporary mechanical irritation.  
Chronic exposure to respirable crystalline silica may cause lung effects.  
Product contains only trace (<1%) crystalline silica.  
No data indicate acute toxicity via oral or dermal exposure.

## **SECTION 12 – ECOLOGICAL INFORMATION**

Inert mineral. Not harmful to soil, water, or organisms.  
Not expected to bioaccumulate.

## **SECTION 13 – DISPOSAL CONSIDERATIONS**

Dispose as non-hazardous mineral waste.  
Avoid generating airborne dust during disposal.

## **SECTION 14 – TRANSPORT INFORMATION**

Not regulated as a hazardous material by DOT.

## **SECTION 15 – REGULATORY INFORMATION**

TSCA: Listed  
California Proposition 65: Respirable crystalline silica (trace)

## **SECTION 16 – OTHER INFORMATION**

Prepared per OSHA 1910.1200 App D  
Prepared by ZEO, Inc.  
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