# ZeoSand Natural Zeolite Filter Media Material Safety Data Sheet



#### 1: Chemical Product and Company Identification

Product description: Natural zeolite, Clinoptilolite
Product name: ZeoSand Filter Media

Company: ZEO, Inc.

 PO Box 2353 (Mailing)
 Phone:
 972-542-0053

 2104 Augusta (Physical)
 Fax:
 972-542-0211

 McKinney, TX 75070
 Website:
 www.zeoinc.com

#### 2: Hazard Identification

Overview. May cause irritation to respiratory tract, eyes and skin. Noncombustible.

Eye contact: May cause scratching or mild irritation to the eye.

Skin contact: May cause irritation to the skin.

Inhalation: May cause respiratory irritation.

Ingestion: No hazards known.

Chronic hazards: No known hazards.

Physical hazards: No known hazards.

Carcinogenicity listing: NPT: not listed; IRAC Monographs: not listed; OSHA Regulated: not listed.

#### 3: Composition, Information, or Ingredients

**EINECS** OSHA PEL ACHIH TLV Chemical and common name Wt. % CAS Registry 15 mg/m<sup>3</sup> total dust Zeolite 90-97 1318-02-1 215-283-8 10 mg/m<sup>3</sup> total dust 5 mg/m<sup>3</sup> respirable 3 mg/m<sup>3</sup> resirable or (clinoptilolite<sup>1</sup>) (12173-10-3)(Not found)

Water 3-10 7732-18-5 231-791-2

Clinoptilolite is one of the many crystal forms of zeolites

### 4. First Aid Measures

Eye: In case of contact, immediately flush with water for 15 minutes.

Get medical attention if irritation persists.

Skin: In case of contact and irritation results, flush skin with water.

Remove contaminated clothing. Get medical attention if irritation persists.

Inhalation: Move to fresh air. If breathing stops, give artificial respiration.

If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Not applicable

ZeoSand MSDS Page 1 of 4

5. Fire-Fighting Measure

Flammable limits: Noncombustible

Extinguishing media: Compatible with all extinguishing media

Unusual hazards: None

6. Accidental Release Measures

Environmental hazard: None known.

Protection equipment: Safety goggles, gloves, and protective clothing

Spills cleanup: Shovel or sweep up and place in a suitable container. Avoid generating dust.

CERCLA RQ: None. Notification of state and local authorities is recommended.

7. Handling and Storage

Handling: Avoid contact with eyes, skin, and clothing. Avoid generating and breathing dust.

Clean up spills.

Storage: Keep storage containers closed and dry.

8. Exposure Controls and Personal Protection

Engineering controls: Use adequate ventilation. Safety shower and eyewash fountain should be

within direst access.

Respiratory protection: Use NIOSH approved dust respirator where dust occurs. Refer to

29 CFR §1910.134 or European Standard 149.

Eye protection Wear safety goggles

Skin protection Wear body protecting clothing and gloves. Refer to 29 CFR §1910.133 or

European Standard EN 149

9. Physical and Chemical Properties

Appearance Off white to light green solid (powders and granules)

Odor Odorless

pH 6.8 – 8.0 (water dispersion) Bulk density 45 - 85 pounds/ft $^3$  (0.7 – 1.4 g/ml)

Solubility in waterInsolubleFlash PointNot applicableAutoignition temperatureNot applicableFlammable limitsNot applicableVapor densityNot applicableEvaporation rateNot applicable

10. Stability and Reactivity

Stability Stable
Condition to avoid None

Materials to avoid Strong acids and strong bases

Hazardous decomposition: None

ZeoSand MSDS Page 2 of 4

## 11. Toxicological Information

LD<sub>50</sub> and LC<sub>50</sub> Not established

Carcinogenicity Clinoptilolite with a particle size in the respriable range was tested for carcinogenicity in rats

by intratraceal instillation. No significant increase in the incidence of tumors was found.

#### 12. Ecological Information

Environmental fate Does not bioaccumulate in animal or plants

Physical/Chemical Sinks in water

Atmospheric Contains no ozone depleting substances

Waterfowl toxicity

Aquatic toxicity

None known

BOD and COD

None known

#### 13. Disposal Consideration

Classification Not a RCRA Hazardous Waste

Dispose in accordance with federal, state (provincial), and local regulations.

#### 14. Transportation Information

Proper shipping name: Non-Hazardous for Transport

IATA Hazard Class: Not Regulated
 DOT Hazard Class: Not Regulated
 IMDG Hazard Class: Not Regulated
 RID/ADR Dangerous Goods: Not Regulated
 Label: None required
 UN TDG Class: Not Regulated
 Hazard Symbol: None required

Hazard Id Number (HIM): None

#### 15. Regulatory Information

California Prop 65 There is no chemical present known to the State of California to cause

cancer or reproductive toxicity.

CPR: This product has been classified in accordance with the hazard criteria of the

Controlled Products Regulations and the MSDS contains all of the information

required by the Controlled Products Regulations. WHMIS Classification: Not controlled

CERCLA: None

DSL / NDSL Components of this product identified by CAS Number and listed on the Canadian

Ingredient Disclosure List (IDL) are not listed on the Canadian Domestic Substances List (DSL) or Non-Domestic Substance List (NDSL), or are otherwise in compliance

with the New Substance Notification (NSN) regulations.

EINECS Components of this product identified by CAS Numbers are on the European Inventory of

Existing Commercial Chemical Substances unless indicated as "Not found."

ZeoSand MSDS Page 3 of 4

IDL Components of this product identified by CAS Number and listed on the Canadian

Ingredient Disclosure List (IDL) are shown in Section 2.

SARA Title III.313I None

TSCA All components of this product are listed on the U. S. Toxic Substances Control Act Inventory

or are exempt from listing, because a Low Volume or Polymer Exemption has been granted in

accordance with 40 CFR 723.50.

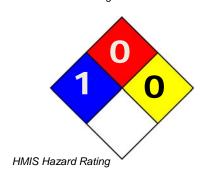
VbK: Not applicable

WGK Water Quality Index: ngw

WHMIS Classification: Not controlled

#### 16. Other information

NFPA Hazard Rating





PERSONAL PROTECTION E

Health (Blue) 1 Caution – May be irritating.

Flammability (Red) 0 Non combustible.

Reactivity (Yellow) 0 Not reactive when mixed with water.

Special Info (White) None

Health (Blue) 1 Irritation or minor reversible injury possible.

Flammability (Red) 0 Will not burn.

Reactivity (Orange) 0 Will not react, polymerize, decompose,

condense, or self react. Non-explosive.

Personal Protection E Safety glasses, gloves, and dust respirator.

Date prepared: October 29, 2012

The information on this Material Safety Data Sheet is believed to be accurate and is the best information available to ZEO, Inc. This document is intended only as a guide to the appropriate precautions for handling. ZEO, Inc. makes no warranty of merchantability or any other warrant, expressed or implied with respect to the information or the product to which this Material Safety Sheet relates. Users and handlers of this product should make their own investigations to determine the suitability of the information provided herein for their own purposes.

ZeoSand MSDS Page 4 of 4