EcoSand Soil Amendment Material Safety Data Sheet



1: Chemical Product and Company Identification

Product description:	Natural zeolite, Clinoptilolite		
Product name:	EcoSand Soil Amendment		
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

Chemical and common name	Wt. %	CAS Registry	EINECS	OSHA PEL	ACHIH TLV
Zeolite	90-97	1318-02-1	215-283-8	15 mg/m ³ total dust	10 mg/m ³ total dust
or (clinoptilolite ¹)		(12173-10-3)	(Not found)	5 mg/m ³ respirable	3 mg/m ³ resirable
Water	3-10	7732-18-5	231-791-2		
Clinoptilolite is one of the man	y crystal fo	orms 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

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
pН	6.8 – 8.0 (water dispersion)
Bulk density	45 - 85 pounds/ft ³ (0.7 – 1.4 g/ml)
Solubility in water	Insoluble
Flash Point	Not applicable
Autoignition temperature	Not applicable
Flammable limits	Not applicable
Vapor density	Not applicable
Evaporation rate	Not applicable

10. Stability and Reactivity

Stability	Stable
Condition to avoid	None
Materials to avoid	Strong acids and strong bases
Hazardous decomposition:	None

11. Toxicological Information

LD_{50} and LC_{50}	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

Does not bioaccumulate in animal or plants
Sinks in water
Contains no ozone depleting substances
None known
None known
None known

13. Disposal Consideration

Classification	Not a RCRA Hazardous Waste
Disposal method	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

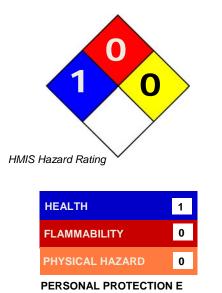
15. Regulatory Information

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."	

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



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

Trade name:

EcoSand is a register trade name of ZEO, Inc.

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.