

Z-Ultra



Material Safety Data Sheet

1: Chemical Product and Company Identification

Product description: Natural zeolite, Clinoptilolite
Product name: Z-Ultra
Company: ZEO, Inc.
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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

<i>Chemical and common name</i>	<i>Wt. %</i>	<i>CAS Registry</i>	<i>EINECS</i>	<i>OSHA PEL</i>	<i>ACHIH TLV</i>
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 respirable
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

5. Fire-Fighting Measure

<i>Flammable limits:</i>	Noncombustible
<i>Extinguishing media:</i>	Compatible with all extinguishing media
<i>Unusual hazards:</i>	None

6. Accidental Release Measures

<i>Environmental hazard:</i>	None known.
<i>Protection equipment:</i>	Safety goggles, gloves, and protective clothing
<i>Spills cleanup:</i>	Shovel or sweep up and place in a suitable container . Avoid generating dust.
<i>CERCLA RQ:</i>	None. Notification of state and local authorities is recommended.

7. Handling and Storage

<i>Handling:</i>	Avoid contact with eyes, skin, and clothing. Avoid generating and breathing dust. Clean up spills.
<i>Storage:</i>	Keep storage containers closed and dry.

8. Exposure Controls and Personal Protection

<i>Engineering controls:</i>	Use adequate ventilation. Safety shower and eyewash fountain should be within direct access.
<i>Respiratory protection:</i>	Use NIOSH approved dust respirator where dust occurs. Refer to 29 CFR §1910.134 or European Standard 149.
<i>Eye protection</i>	Wear safety goggles
<i>Skin protection</i>	Wear body protecting clothing and gloves. Refer to 29 CFR §1910.133 or European Standard EN 149

9. Physical and Chemical Properties

<i>Appearance</i>	Off white to light green solid (powders and granules)
<i>Odor</i>	Odorless
<i>pH</i>	6.8 – 8.0 (water dispersion)
<i>Bulk density</i>	45 - 85 pounds/ft ³ (0.7 – 1.4 g/ml)
<i>Solubility in water</i>	Insoluble
<i>Flash Point</i>	Not applicable
<i>Autoignition temperature</i>	Not applicable
<i>Flammable limits</i>	Not applicable
<i>Vapor density</i>	Not applicable
<i>Evaporation rate</i>	Not applicable

10. Stability and Reactivity

<i>Stability</i>	Stable
<i>Condition to avoid</i>	None
<i>Materials to avoid</i>	Strong acids and strong bases
<i>Hazardous decomposition:</i>	None

11. Toxicological Information

<i>LD₅₀ and LC₅₀</i>	Not established
<i>Carcinogenicity</i>	Clinoptilolite with a particle size in the respirable range was tested for carcinogenicity in rats by intratracheal instillation. No significant increase in the incidence of tumors was found.

12. Ecological Information

<i>Environmental fate</i>	Does not bioaccumulate in animal or plants
<i>Physical/Chemical</i>	Sinks in water
<i>Atmospheric</i>	Contains no ozone depleting substances
<i>Waterfowl toxicity</i>	None known
<i>Aquatic toxicity</i>	None known
<i>BOD and COD</i>	None known

13. Disposal Consideration

<i>Classification</i>	Not a RCRA Hazardous Waste
<i>Disposal method</i>	Dispose in accordance with federal, state (provincial), and local regulations.

14. Transportation Information

<i>Proper shipping name:</i>	Non-Hazardous for Transport
<i>IATA Hazard Class:</i>	Not Regulated
<i>DOT Hazard Class:</i>	Not Regulated
<i>IMDG Hazard Class:</i>	Not Regulated
<i>RID/ADR Dangerous Goods:</i>	Not Regulated
<i>Label:</i>	None required
<i>UN TDG Class:</i>	Not Regulated
<i>Hazard Symbol:</i>	None required
<i>Hazard Id Number (HIM):</i>	None

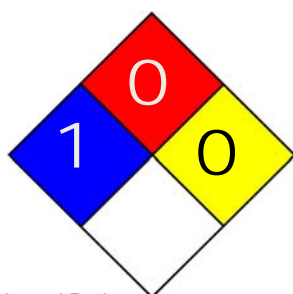
15. Regulatory Information

<i>California Prop 65</i>	There is no chemical present known to the State of California to cause cancer or reproductive toxicity.
<i>CPR:</i>	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
<i>CERCLA:</i>	None
<i>DSL / NDSL</i>	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.
<i>EINECS</i>	Components of this product identified by CAS Numbers are on the European Inventory of Existing Commercial Chemical Substances unless indicated as "Not found."

<i>IDL</i>	Components of this product identified by CAS Number and listed on the Canadian Ingredient Disclosure List (IDL) are shown in Section 2.
<i>SARA Title III.313f</i>	None
<i>TSCA</i>	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.
<i>VbK:</i>	Not applicable
<i>WGK Water Quality Index:</i>	<i>ngw</i>
<i>WHMIS Classification:</i>	Not controlled

16. Other information

NFPA Hazard Rating



HMIS 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

Trade name: Z-Ultra is a registered 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.