



PRODUCT DATA SHEET

High Purity 97% Clinoptilolite zeolite - Produced at Amargosa Valley NV, 89020

Hydrous Sodium Aluminosilicate 100% Natural Clinoptilolite

TYPICAL PROPERTIES

General Chemical Formula	Na ₆ [Al ₆ Si ₃₀ O ₇₂] ₂₄ H ₂₀
Clinoptilolite Content	97%+
Cation Exchange Capacity (CEC)	1.6 - 2.0 meq/g
Form	Granules and powders
Shape	Angular
Color	Beige / Gray
Pore Diameter	4.0 - 7.0 angstroms
Specific Gravity	1.89
Specific Surface Area	40m ² /g
Bulk Density	45 - 54 lbs/ft ³
pH stability	3.0-10.00
Hardness	4.0 - 5.0 Mohs
Swelling Index	Nil

TYPICAL CHEMICAL ANALYSIS

SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	CaO	MgO	Na ₂ O	K ₂ O	MnO	TiO ₂
66.7%	11.48%	0.9%	1.33%	0.27%	1.80%	3.42%	0.025 %	0.13%

MAJOR EXCHANGEABLE CATIONS

Rb+	Na+	Ba+2	Mg+2	Li+	Ag+	Sr+2	Fe+3	K+	Cd+2
Cu+2	Co+3	Cs+	Pb+2	Ca+2	Al+3	NH+4	Zn+2	Hg+2	Cr+3

CERTIFICATIONS / DESIGNATIONS

Organic Materials Review Institute - KMI-10365

CAS Registration : 12173-10-3

NAICS CODE : 2123

HS CODE : 2505.10.0099

Shipping Class : 50

NMFC# : 48515

TSCA (USA - Toxic Substance Control Act) : No components listed.

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986 : There are no chemicals present known to the state of California to cause cancer or reproductive toxicity.

U.S. Food and Drug Administration (USFDA) : GRAS (Generally Recognized as Safe)

Federal Code 21 CFR Part 582.2729

SUBCHAPTER E - ANIMAL DRUGS, FEEDS, AND RELATED PRODUCTS

Federal Code 21 CFR Part 182.2729

SUBCHAPTER B - FOOD FOR HUMAN CONSUMPTION

40CFR, Part 180.1001 : Exemptions from the requirement of pesticide tolerance EN-71-3 Safety of Toys Part 3 - Migration of Certain Elements Results
- PASS

CDFA Fertilizing Materials Licensee Firm ID # : 406763

CDFA Commercial Feed ID # : 441299

CDFA Fertilizing Materials ID # : 465901

*Information contained herein is, to the best of our knowledge, correct. The data outlined and the statements made are intended only as a source of information.