



Section 1 Company Information

Company Name KMI Zeolite
Telephone 855-823-3777
Address 5390 E. Nye County Road #266
 Amargosa Valley, NV. 89020
Product Name UltraGrow Soil Enhancer

Section 2 Product Information

DESCRIPTION

ULTRAGROW SOIL ENHANCER NATURALLY BALANCES MOISTURE AND NUTRIENTS

UltraGrow soil enhancer is made from pure zeolite in several mesh sizes that help intensify water and oxygen absorption, promoting healthier plant growth. KMI Zeolite UltraGrow has many advantages over clay soil pebbles, perlite, vermiculite and gypsum in its ability to absorb and release moisture. This is due to zeolite's unique, negatively charged honeycomb structure which allows the plant easy access to nutrients and moisture as needed through ion exchange.

ABOUT

ULTRAGROW is a naturally occurring zeolite created millions of years ago when it's unique properties of adsorption and absorption were formed resulting in an exceptional mineral called zeolite.

ULTRAGROW is a natural zeolite molecular sieve with unique physiochemical properties. The molecular structure of ULTRAGROW is a three-dimensional honeycomb consisting of a network of interconnected tunnels and cages. Positively charged cations, exchangeable atoms, are attached at the junctions. ULTRAGROW has an immense internal molecular surface area within its particles (10 grams of ULTRAGROW is equal to a molecular surface area the size of a football field).

Section 3 Certifications

OMRI Listed
Certified Organic

Section 4 Properties

Chemical Formula	Na ₆ [Al ₆ Si ₃₀ O ₇₂]24H ₂ O
Clinoptilolite Content	97%+
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
Cation Exchange Capacity (CEC)	1.6 – 2.0 meq/g

Section 5 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%	3.96%	3.42%	0.025%	0.13%

Section 6 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

Section 7 Hazards

Potential Acute Health Effects

Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects

Hazardous in case of skin contact (corrosive).
Slightly hazardous in case of skin contact (irritant).

Carcinogenic Effects

3 (Not classifiable for human.) by IARC.

Mutagenic Effects

Not available.

Teratogenic Effects

Not available.

Developmental Toxicity

Not available.

Section 8 First Aid

Eye Contact

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin Contact

Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Get medical attention.

Ingestion

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

Section 9 Recommended Use

Soil Additive Powder

Sprinkle powder over soil and mix thoroughly, most commonly done with rototiller. Avoid applying powder in windy conditions. Top dressing can also be mixed into soil for greater aeration and water retention. Material does not break down over time. Apply sparingly and add as needed.

Top Dressing Granules

Using premixed soil and UltraGrow Soil Additive Powder, line the top soil with dressing as desired. Apply sparingly and add as needed.

Cactus Substrate

Use exclusively or combine with peat moss for a premier cactus growing substrate. Do not use top dressing or powder as growing substrate as these are smaller granule size and allow less aeration and drainage.