

ALTERRA™ L

ALTERRA L is a multi-action product with that protects liquid UAN and anhydrous ammonia nitrogen fertilizers from potential losses through leaching. ALTERRA L contains a monoamine oxygenase inhibitor to delay the nitrification of ammoniacal and urea nitrogen fertilizers and minimize subsequent nitrate leaching for fertilizers placed at or below the soil surface. ALTERRA L is a premium technology known to increase Nutrient Use Efficiency (NUE).

GUARANTEED ANALYSIS

NON-PLANT FOOD INGREDIENT

Active Ingredient: 25%.....Dicyandiamide (DCD)
Other Ingredients: 75%.....Solvent and Co-Polymer Blend

NOT RECOMMENDED FOR USE AS A FERTILIZER SUBSTITUTE.

DANGER

Causes severe skin burns and eye damage. Suspected of causing cancer. May damage fertility or the unborn child.



PRECAUTIONARY STATEMENTS

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling.
Immediately call a poison center or doctor/physician.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Store locked up. Dispose of contents/container to an approved waste disposal plant.
GENERAL INFORMATION
ALTERRA L works best when thoroughly mixed with liquid UAN nitrogen fertilizers that are applied to the soil.
Nitrogen fertilizers treated with ALTERRA L should be applied to the soil in the same manner as nitrogen fertilizers without ALTERRA L.
NOTE: When using ALTERRA L, if different farming methods from those normally used are tried, test strips are recommended until such new methods have been proven to be effective.

SOIL TYPES AND CROPS

ALTERRA L may be used with any crop and in any soil type whereas best management practices recommend the use of various nitrogen fertilizers, the use of a nitrification inhibitor is deemed beneficial and the fertilizer is placed on or below the soil surface.

To access Verdesian's Warranty Statement please go to vsci.com/limited-warranty
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MIXING INSTRUCTIONS

The quality and composition of nitrogen fertilizers varies greatly. Before evenly blending ALTERRA L with nitrogen fertilizers, those fertilizers should be "batch tested" to determine compatibility with ALTERRA L.
ALTERRA L may not be compatible with other fertilizer additives. It is recommended that a jar test be conducted, mixing the additives at the same ratios as to be field applied.
"316" stainless steel pumps and attachments are recommended. When seals are used, seals made of fluoro-elastomeric materials such as GORE-TEX®, TEFLON® or EPDM are required.
FOR MIXING WITH UREA-AMMONIUM NITRATE (UAN) SOLUTIONS
Follow general industry suggestions for mixing by filling the sprayer or tender tank approximately half full of a urea ammonium nitrate (UAN) fertilizer and begin the agitation system. Then add the appropriate amount of ALTERRA L to the tank followed by any additional UAN needed to complete the batch.

UREA-AMMONIUM NITRATE (UAN) TREATMENT RATE

Thoroughly blend 1.5-2.5 quarts ALTERRA L per ton liquid UAN fertilizer (1.6 to 2.6 liters per metric ton).
FOR MIXING WITH ANHYDROUS AMMONIA IN THE TANK:
Wear appropriate personal protection equipment according to the SDS. Pump the appropriate rate of ALTERRA L into the anhydrous tank through the liquid fill valve anytime while filling, prior to filling or after filling.

FOR USE OF AN INJECTION SYSTEM:

Follow injection equipment manufacturers instructions in systems that introduce ALTERRA L to anhydrous ammonia prior to application.
ANHYDROUS AMMONIA TREATMENT RATE
Anhydrous ammonia 3-5qts/ton (3.1-5.2 liter per metric ton) or 10-32oz/A (119.7-383.0 mL/hectare) through an injection.

USE PRECAUTIONS
KEEP OUT OF THE REACH OF CHILDREN

Do not use ALTERRA L as a seed treatment. ALTERRA L can be used as a fertilizer additive for in-furrow planting. Read the SDS and label before use, including but not limited to "USE PRECAUTIONS" and "Warranty". Always wear proper personal protection and follow instructions for treatment and application. Use according to label directions.
Do not contaminate waterways and sewers during cleaning of equipment or disposal of wastes, always adhering to applicable provisions of federal, state, and local laws and regulations. Completely empty contents into application equipment. Dispose of empty container by depositing in sanitary landfills, or as required by law. Do not reuse containers. Observe all warnings on label. Read the Safety Data Sheet prior to use.

STORAGE, HANDLING AND DISPOSAL

Avoid exposure – use care in handling/storage/disposal activities. Always wear appropriate chemical mixing personal protective equipment (PPE) including eye/face and hand protection. Keep containers tightly closed in a dry, cool, and well-ventilated place that meet or exceed governmental regulation guidelines.
Keep product from prolonged freezing conditions. Store at temperatures between 20°F and 100°F. If the product is subjected to temperatures below 20°F for a prolonged period, the product should be moved to conditions above freezing and agitated for 30 minutes after it is warm and again prior to use. At this point, the product will return to its normal liquid state and may be used normally. No degradation of active ingredient will occur with the product that has been frozen. Avoid storage in high temperatures. Once a container is opened it is recommended to utilize its contents within thirty days.
Dispose of empty containers in accordance with federal, state, and local regulations.
Contact your Verdesian representative with any questions on storage, mixing, blending, or disposal.

ALTERRA™
A VERDESIAN NUE SOLUTION®

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