

## TRIDENT™ N

TRIDENT N is a multi-action product that protects both granular nitrogen and liquid UAN nitrogen fertilizers from potential losses through volatilization and leaching. TRIDENT N contains a urease inhibitor to impede the hydrolysis of urea and reduce the consequent ammonia volatilization for urea placed at or near the soil surface. TRIDENT N also contains a monomine oxygenase inhibitor to delay the nitrification of ammoniacal and urea nitrogen fertilizers and minimize subsequent nitrate leaching for fertilizers placed at or just below the soil surface. TRIDENT N is a premium technology known to increase Nutrient Use Efficiency (NUE).

### GUARANTEED ANALYSIS

#### NON-PLANT FOOD INGREDIENT

Active Ingredients:

5%.....N-(n-butyl) thiophosphoric triamide (NBPT)  
20%.....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

TRIDENT N works best when evenly sprayed onto granular nitrogen fertilizers, or thoroughly mixed with liquid UAN nitrogen fertilizers, that are applied to the soil.

Nitrogen fertilizers treated with TRIDENT N should be applied to the soil in the same manner as nitrogen fertilizers without TRIDENT N.

**NOTE:** When using TRIDENT N, 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

TRIDENT N 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 volatilization nitrification inhibitor and/or urease inhibitor is deemed beneficial, and the fertilizer is placed on or just below the soil surface.

### MIXING INSTRUCTIONS

The quality and composition of nitrogen fertilizers varies greatly. Before evenly blending TRIDENT N with nitrogen fertilizers, those fertilizers should be "batch tested" to determine compatibility with TRIDENT N. TRIDENT N 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 BLENDING ON GRANULAR NITROGEN FERTILIZERS

TRIDENT N can be used with multiple types of granular nitrogen fertilizers. TRIDENT N should be evenly sprayed (not poured) onto granular nitrogen fertilizers. Standard spraying equipment works well for evenly spraying granular nitrogen fertilizers. In cold conditions, check spray equipment to insure even application on urea. TRIDENT N may be more viscous (thicker) under cold conditions and pump settings may need to be adjusted accordingly. Do not apply TRIDENT N to granular nitrogen fertilizer that is wet prior to treatment. To prevent streaking in the field, do not apply excessively wet fertilizer. Increasing air flow and ventilation can be used to dry fertilizer if needed.

For optimum results pretreat all granular nitrogen fertilizer and allow drying before blending with other products, and use immediately after treatment, product efficacy may be impacted by the conditions of long-term storage.

Equipment required for blending TRIDENT N on urea include an accurate weighing system, a clean fertilizer blending system that allows the TRIDENT N to be thoroughly blended and dried onto the granular nitrogen fertilizer. Add the appropriate amount of TRIDENT N to match the fertilizer batch size evenly throughout the mixing and blending process generally allowing at least one minute of blending time per ton of fertilizer at a minimum. Atmospheric conditions such as temperature and relative humidity can affect the drying time of TRIDENT N on the urea. If need be, a small amount of absorbent drying agent can be added to the mix during the mixing and blending process. More specific blending, mixing, and storage instructions are available from your Verdesian Life Sciences representative.

TRIDENT N can be used on urea-ammonium sulfate (AMS) blends with 30% AMS or less. AMS varies widely in particle size and blends are known to absorb moisture from the atmosphere. Treated blends may appear wetter than non-blends.

### 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 TRIDENT N to the tank followed by any additional UAN needed to complete the batch.

## TREATMENT RATE AND TIMING GUIDELINES

Granular Nitrogen Fertilizers	
Rate:	Timing guidance
1.5 qts/ton	In-crop applications (Top Dress, Side Dress) of Nitrogen as a part of a sequential nitrogen application program.
1.5-2.0 qts/ton	Pre-plant or pre-emerge applications of nitrogen as a part of a sequential application program.
2.0-2.5 qts/ton	Early season pre-plant or pre-emerge applications that are not part of a sequential program and applied to adverse soil types and conditions.
UAN Solutions	
Rate:	Timing guidance
1.0-1.5 qts/ton	In-crop applications (Top Dress, Side Dress, Fertiligation) of Nitrogen as a part of a sequential nitrogen application program.
1.5-2.0 qts/ton	Pre-plant or pre-emerge applications of nitrogen as a part of a sequential application program.
2.0-2.5 qts/ton	Early season pre-plant or pre-emerge applications that are not part of a sequential program and applied to adverse soil types and conditions.

## USE PRECAUTIONS

### KEEP OUT OF THE REACH OF CHILDREN

Do not use TRIDENT N as a seed treatment. TRIDENT N can be used as a fertilizer additive for in-furrow application. 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.

To access Verdesian's Warranty Statement please go to [vlscl.com/limited-warranty](https://www.verdesian.com/limited-warranty)

This product is guaranteed by: Verdesian Life Sciences U.S., LLC | 1001 Winstead Drive, Suite 480, Cary, NC 27513 | Customer Service: 800-868-6446

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TRIDENT™ N