

UREA

General Information

AGROTAIN ADVANCED 1.0 nitrogen stabilizer is designed to protect urea-based fertilizers from ammonia volatilization and may be used on any crop that requires nitrogen fertilization, including row crops, specialty crops, forages, sod, turfgrass, ornamentals and other landscape and nursery plantings. This product is recommended for surface, shallow-placed, shallow-banded or shallow-incorporated (less than two inches) application of urea and urea-containing fertilizers such as pre-plant, pre-emergence, sidedress, topdress or other post-planting applications. The benefits of AGROTAIN ADVANCED 1.0 stabilizer as a urease inhibitor are a result of its ability to retard the hydrolysis of urea and control volatilization, preventing ammonia loss while the urea is on the soil surface or less than two inches deep in the soil.

GENERAL PRECAUTIONS AND DIRECTIONS FOR USE

WARNING: Keep out of the reach of children. Pregnant or breastfeeding women must not handle this product. Read the entire label and safety data sheet before use. Use only according to label directions. Always wear proper personal protection when handling the product (long sleeves and long pants, goggles and chemical resistant gloves). Use only with adequate ventilation (large volumes of air movement). If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Do not apply directly to water. Do not contaminate waterways and sewers during cleaning of equipment or disposal of wastes. Always adhere to applicable provisions of federal, state, provincial and local laws and regulations.

Do not use in livestock feed. Keep livestock off treated areas until after 14 days or 1 inch of rainfall has accumulated. Urea and UAN may be toxic to livestock when ingested.

Do not enter treated areas until spray has thoroughly dried.

COMPATIBILITY

Some testing has been conducted to assess the stability and compatibility of AGROTAIN ADVANCED 1.0 nitrogen stabilizer with certain herbicides and adjuvants. Test results show that the rate of the degradation should not preclude the use of this product with most commonly used agricultural herbicides under normal use. Most agricultural chemicals compatible with UAN solutions are also compatible with this product. However, compatibility tests prior to use are recommended. Glyphosate herbicides may cause an increase in the rate of degradation when tank mixed with AGROTAIN ADVANCED 1.0 nitrogen stabilizer. Therefore such mix should be applied soon after mixing to avoid a possible reduction in the effectiveness of the active ingredient.

Limitations, Restrictions, and Exceptions

FOR BLENDING ON UREA

Equipment Required

- An accurate scale to weigh materials.
- A fertilizer blender or other equipment suitable for rolling or blending the urea particles with AGROTAIN ADVANCED 1.0 stabilizer. A rotary device that can tumble the urea and allow for uniform contact with the product without spillage is appropriate. Auger and paddle mixers may also be used. Exposed inner surfaces should be clean, dry and rust-free.

Procedure

1. Weigh the urea and transfer into the mixing or blending equipment.
2. Measure the desired quantity of AGROTAIN ADVANCED 1.0 stabilizer.
3. Apply the product to the urea in the blender. Blend well before introducing other fertilizer materials and allow adequate time (at least 1 minute/ton) for uniform coverage. A pigment is included in the product to assist in evaluating the uniformity of coverage.
4. Under certain temperature and humidity conditions, urea blended with the product may stick together. Often the addition of other fertilizer materials to the blender, such as potash, will eliminate the need to add a drying agent. If the particles remain sticky, add small amounts of finely ground, highly absorbent, free-flowing powders such as attapulgite clays at concentrations as low as 0.25% by

weight of the treated urea.

Storage After Blending

Granular dry urea treated with AGROTAIN ADVANCED 1.0 stabilizer is suitable for longterm storage. Research shows stabilized fertilizer may be stored up to 9 months for full effectiveness.

Method

[Surface](#)

[Broadcast](#)

[Side-dress application](#)

[Surface](#)

[Broadcast](#)

[Side-dress application](#)

[Surface](#)

[Broadcast](#)

[Side-dress application](#)

Rates

[field rates 0](#)

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Timings

[Preemergence \(Crop\)](#)

[Preplant](#)

[Postplant](#)