FOR UREA SOLUTIONS

General Information

AGROTAIN PLUS nitrogen stabilizer is a dry flowable additive for UAN solution and urea solution. It contains N-(n-butyl)-thiophosphoric triamide, a urease inhibitor which reduces nitrogen loss by ammonia volatilization from urea, and dicyandiamide, a nitrogen fertilizer and nitrification inhibitor. Together these components allow more complete nitrogen utilization by the crop. This product may only be used with liquid nitrogen fertilizers that are for agricultural use. It is not recommended for use as a fertilizer substitute.

GENERAL USE PRECAUTIONS
Observe all precautions on label and read safety data sheet before use. There are no reentry restrictions unless used with pesticides or fertilizer materials that may have such requirements. Not recommended for feed application. 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.

Always wear proper personal protection (recommend long sleeves and long pants, goggles and neoprene gloves). Use only with adequate ventilation (large volumes of air movement). If organic vapors or dust are present above their regulatory limits, follow a respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal, state, provincial or local requirements whenever workplace conditions warrant respirator use. Use only non-sparking tools. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentrations.

Do not enter treated areas until spray has thoroughly dried. Urea, which is a component in UAN, may be toxic to ruminants when ingested. Keep ruminants off treated areas until after a 2 cm or 1 inch rainfall.

PHYSICAL PROPERTIES
pH 7.5-8.2
Bulk Density 39 lbs./ft3

Limitations, Restrictions, and Exceptions
APPLICATION RATES
This product is specifically designed for mixing with urea ammonium nitrate (UAN) solutions and urea solutions. This product is recommended for pre-plant, preemergence, side-dress, top-dress or other fertilizer applications when nitrogen loss is anticipated due to volatilization, denitrification or leaching. The use rate is based on one ton of UAN. One 13.6 kg (30 lb.) bag of this product treats two tonnes (tons).

FOR BLENDING IN LIQUID NITROGEN FERTILIZER
Procedure
1. Don proper personal protection.
2. This product should be introduced to the nitrogen fertilizer solution and mixed thoroughly by agitation prior to adding pesticides or surfactants.
3. Fill the tank half full with nitrogen fertilizer solution.
4. Agitation is required for proper mixing. Use an inductor or load the product into the tank directly. Add the appropriate amount of AGROTAIN PLUS stabilizer for the desired concentration in the full volume.
5. Mix well, then add the remainder of the UAN solution or urea solution.
6. Use the blended UAN solution or urea solution soon after mixing.
7. Use 50 mesh screens or larger in your spray system.
The blended UAN or urea solution can be stored for up to 12 weeks before application without affecting performance. Protect product from freezing. Store at temperatures between 0 °C and 38 °C (32 °F and 100 °F).

Compatibility
Once this product is added into UAN solution or urea solution, it should be compatible with most herbicides. Test compatibility with a jar test or similar method before adding other products to the mixture. After a successful test, add other pesticides or surfactants according to the additional product’s label. Glyphosate herbicides may cause an increase in the rate of degradation when tank mixed with AGROTAIN PLUS nitrogen stabilizer. Therefore such mix should be applied soon after mixing to avoid a possible reduction in the effectiveness of the active ingredient.

Method
Side dress
Top-dress application
Side dress
Top-dress application

Timings

Preemergence (Crop)

Preplant