

# **PROPRIETARY FERTILIZER ADDITIVE**

## General Information

### GENERAL INFORMATION

ASSET is a product which improves crop production when used with anhydrous ammonia and other nitrogen-based fertilizers. ASSET should be mixed with liquid anhydrous ammonia and nitrogen-based fertilizers prior to application. This fertilizer is intended as a supplement to a regular fertilizer program and may not, by itself, provide all of the nutrients normally required by crops or other intended plants.

### DIRECTIONS FOR USE WITH NITROGEN-BASED LIQUID AND DRY GRANULAR FERTILIZERS

ASSET is not readily soluble in nitrogen-based fertilizers. Thus, a few simple procedures must be followed in using this product to avoid problems in handling and to obtain optimum results.

To ensure a good uniform mixture of ASSET and nitrogen-based liquid fertilizers, the following steps should be followed: 1) After deciding the required amount of ASSET, pre-mix two (2) times an amount of water with the required amount of ASSET . 2) Put the mixture into the spray tank and fill with the nitrogen-based fertilizer.

NEVER ADD UNDILUTED ASSET INTO AN EMPTY SPRAY TANK. ASSET can be added directly to the nitrogen-based liquid fertilizer IF AGITATION IS PROVIDED. Do not allow to stand without agitation as separation will occur.

### DRY GRANULAR FERTILIZER

ASSET may be impregnated on most dry ammonia fertilizers or dry fertilizer blends that are composed of at least 50% of a combination of urea, nitrate or ammonium phosphate. Uniform application in the field is necessary to ensure optimum results.

### USE AND DOSAGE RECOMMENDATIONS:

To ensure uniform coverage of the dry ammonia fertilizer during the ASSET impregnation process, use a closed rotary drum mixer equipped with suitable internal spraying equipment, OR, uniformly apply the ASSET to the granular

fertilizer as it enters the fertilizer blending drum. If necessary, dilute the proper amount of ASSET (see dosage recommendations above) with water to produce an adequate amount of solution to uniformly treat/impregnate the dry granular fertilizer.

For fertilizer application rates suitable for your geographical area or the maximum allowable non-nutrient application rates per acre, consult a trained soil specialist or your local Helena Chemical Company representative.

#### MIXING WITH ANHYDROUS AMMONIA

ASSET is readily soluble in liquid anhydrous ammonia. It is not soluble in ammonia vapor. Some liquid ammonia is required to keep the ASSET in solution. Carefully meter ASSET into the anhydrous ammonia nurse tank or applicator tank by pumping it through an accurate, calibrated metering device into the liquid ammonia, either after filling or as the tank is being filled. Use a positive flow system or check valves, where appropriate, to prevent one product from entering the delivery tank of the other, introducing both products simultaneously into the nurse tank or applicator tank automatically provides the mixing required for a uniform, homogeneous solution.

#### DIRECTIONS FOR USE WITH ANHYDROUS AMMONIA

Meter 0.45 gallons (3.6 pints or 4.2 lbs.) of ASSET into each ton of liquid ammonia. (This is equivalent to 3.2 quarts of ASSET per 3589 lbs. of anhydrous ammonia, or 80 lbs. of ASSET per 34,000 lbs. of ammonia).

When used with anhydrous ammonia add ASSET at 0.034 ounces per pound of nitrogen applied. This should be based on the total amount of nitrogen applied per crop year. Apply ammonia mixture by injecting into soil in the same way anhydrous ammonia is normally applied. Problems may be encountered in applying the ammonia mixture when flow rates through delivery tubes are low. When injection shanks are closely spaced, and flow rates through the delivery tubes are low, a buildup of solid material can occur in the delivery tubes or between the metering device and the injection shanks. Plugging can occur under these circumstances. To avoid or minimize this problem observe the following:

1. Install a pressure gauge (0-60 psi) in the manifold. If delivery tube pressure is below 18 to 20 psi during application, buildup will likely occur. A rise in manifold

pressure during application will give the operator an indication that a buildup problem is starting.

2. The meter should be set to deliver 5 to 8 lbs. more nitrogen per acre than normal setting with straight ammonia. ASSET apparently reduces flow through the meter, making calibration low.

3. Observe the minimum application rates of nitrogen per acre, please refer in the label.

4. Make sure injection equipment adds the correct amount of ASSET to the nurse tank. Too much can result in plugging occurring at higher application rates than usual.

### Limitations, Restrictions, and Exceptions

#### USE RECOMMENDATIONS:

ASSET is compatible with most liquid fertilizer/herbicide spray mixes at manufacturer's specified label rates. However, it is recommended that a "jar test" be performed prior to the actual application. In the event of fertilizer/herbicide compatibility problems, the addition of a stabilizing/compatibility agent, such as BLENDEX, is recommended. Best results are obtained when ASSET is incorporated or injected in a zone or band in the soil with the fertilizer component at a minimum depth of two (2) to four (4) inches. The recommendations for the use of this product are based upon the best current information available.

#### DOSAGE RECOMMENDATIONS:

To determine the proper amount of ASSET to add to the fertilizer, multiply the recommended dosage rates below by the number of acres one ton of fertilizer will cover.

Row or Band and Injection Applications: Use ASSET at the rate of five (5) to six (6) ounces per acre.

Broadcast Applications: Use ASSET at the rate of ten (10) to eleven (11) ounces per acre.

#### Method

[Band application](#)

[Broadcast Application](#)

[Row application](#)

[Injection application](#)

Rates

[field rates 0](#)

[field rates 1](#)

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Timings

[N.A.](#)