

# **MIXING IN MANURE PITS - BEFORE NOVEMBER 1**

## General Information

## Product Information

Instinct HL nitrogen stabilizer is a water-based microencapsulated formulation of nitrapyrin that may be used in the application of ammoniacal dry fertilizers (such as urea, AMS, MAP, DAP), aqua ammonia, other liquid ammoniacal or urea nitrogen fertilizer compositions (such as 28%, 30% or 32% UAN), or manure. Instinct HL is not a substitute for fertilizer.

Incorporation may occur at any time up to 10 days after application and may be either by mechanical means or by moisture (rainfall or overhead irrigation). For moisture incorporation, a minimum of 0.5 inch of moisture is necessary. If 0.5 inch of moisture does not occur within the 10-day window, incorporate mechanically with light tillage.

## Precautions and Restrictions

Instinct HL is no more corrosive to standard liquid fertilizer equipment than liquid fertilizer alone or liquid manure alone.

**Ground Application** Instinct HL may be applied through ground application equipment that may be used in the application of ammoniacal dry or liquid fertilizers, or manure.

**Chemigation** In corn, Instinct HL may be applied through properly equipped chemigation systems at a preplant or postplant application timing prior to crop emergence. In wheat, Instinct HL may be applied through properly equipped chemigation systems preplant up to the 1st detectable joint (Feekes 6 or Zadock 31) growth stage. Unless otherwise indicated in specific use directions, the application rates for chemigation are the same as those specified for broadcast applications.

## Mixing Directions

## Liquid Fertilizers

Use Instinct HL at the rate of 24 to 48 fl oz per acre when applied with liquid fertilizers such as aqua ammonia, or other liquid ammoniacal or urea nitrogen fertilizers. Instinct HL can be added to urea ammonium nitrate liquid fertilizer without a compatibility agent, although when mixing Instinct HL with fertilizer plus herbicides or insecticides, a jar test may indicate that a compatibility agent is needed.

There are two methods which may be used to create a stable emulsion with Instinct HL plus a compatibility agent in liquid fertilizer:

**Premix Method:** The compatibility agent and Instinct HL may be mixed together in a separate container and then added to the liquid fertilizer.

Continuously agitate as the mixture is added to the fertilizer.

**Sequential Method:** The compatibility agent may be added to the fertilizer and thoroughly agitated. While the agitation continues, the required amount of Instinct HL may be added to the tank.

Most phosphate ester types of compatibility agents are suitable for use in these mixtures. Follow the label directions for the compatibility agent to determine rates and any use precautions.

## Liquid Manure

Use Instinct HL at the rate of 24 to 48 fl oz per acre when applied with liquid manure.

## Granular Ammonium and Urea

Apply Instinct HL at a rate of 24 fl oz per acre impregnated on urea, most dry ammoniacal fertilizers, or fertilizer blends containing ammoniacal fertilizers. Uniform impregnation on fertilizer and uniform application in the field is necessary to insure optimum results.

Various types of equipment can be used to impregnate Instinct HL onto dry fertilizers, including vertical and horizontal mixers. Once impregnated, fertilizer may

be applied with either spinner, airflow, or other suitable equipment.

Use a minimum of 100 lb of dry fertilizer per acre. With lower rates of fertilizer (higher concentrations of Instinct HL), the fertilizer may not readily absorb all of the liquid. For a suitable free-flowing mixture, add a drying agent to the mixture. Use a minimum of 1 lb of drying agent per pint of Instinct HL unless experience indicates a different amount works well. Do not apply more than 1 lb active ingredient (ai) nitrapyrin per acre per year.

Apply bulk fertilizers impregnated with Instinct HL within 24 hours of impregnation. Do not store the impregnated fertilizer. All individual state regulations, including those related to dry bulk blending registration, labeling and application, are the responsibility of the individual and/or company selling mixtures of Instinct HL and fertilizer.

Do not mix seed with dry fertilizers impregnated with Instinct HL.

Limitations, Restrictions, and Exceptions

Directions for Use

Refer to product label for Instinct HL for Precautions and Restrictions, Mixing Directions, and specific use directions on corn.

Calculate the number of acres the manure pit could potentially treat to ensure you are blending the correct amount of Instinct HL on a per-acre basis to incorporate into the manure pit. Remember, the slurry remaining in the bottom needs to be included in the calculation for potential acres.

The level of agitation needed for an even distribution of Instinct HL is no more than needed to get the manure pit thoroughly mixed for a normal application. Once Instinct HL has been added to the manure pit and agitated for application, it is recommended that applications begin as soon as possible. If applications are delayed for more than seven days, re-agitation is recommended to ensure uniformity of Instinct HL throughout the manure pit.

Instinct HL should be poured from outside of the building into the pump-outs only where allowed. Pour Instinct HL into multiple pump-out locations around the building or lagoon to help aid in distributing Instinct HL throughout the slurry. Instinct HL should not be poured through the slats or flooring inside the building.

If no agitation is taking place, blending Instinct HL into the pit/lagoon is not recommended. In this scenario a MeterMATE or InjectMATE pump should be used to inject Instinct HL at the time of application.

Method

[N.A.](#)

Rates

[field rates 0](#)

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Restricted Entry Interval

24 hours

Exception: If the product is soil-injected or soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

Timings

[Before November 1, and/ or soil temperatures are between 50 and 60 degrees Fahrenheit.](#)