

Instinct[®] HL

QUESTIONS AND ANSWERS FOR INSTINCT[®] HL

NITROGEN STABILIZER

Dow AgroSciences is excited to announce an enhanced formulation of our Instinct[®] II nitrogen stabilizer called Instinct[®] HL nitrogen stabilizer. This formulation will be available for the 2016-17 market year. Instinct HL will provide improved mixing and handling capabilities and enable a more seamless blending process for dry fertilizer users, while still offering the performance of Instinct II. Below are some commonly asked questions in regards to the enhanced formulation.

WHAT CHANGED WITH INSTINCT[®] HL COMPARED TO INSTINCT II?

- The rate decreased from 37 oz/A to 24 oz/A
- Less drying agent required
- Less blend time required
- 1/3 less storage required
- The freezing point changed from 5° F. to 7° F.

WHY DID WE MAKE A NEW FORMULATION?

- Our dry fertilizer customers requested the same attributes as Instinct[®] II but at a lower use rate
- Higher fertilizer costs
- Customers will gain equipment efficiencies
 - Spread out the work load
 - Application flexibility
- Customers will have reduced field passes by tank mixing with compatible herbicides

DOES IT HAVE THE SAME BENEFITS AS INSTINCT II?

Instinct[®] HL can still be used with UAN, urea and liquid manure to inhibit the nitrification process and enable more nitrogen at the root zone, optimizing yield and profit potential.

REFILLABLE TOTES AND EPA PESTICIDE CONTAINER CONTAINMENT RULE IMPACT

- Dedicated tote can serve as a Portable Refillable Container (PRC)
- Dow AgroSciences provided totes will have check valve and tamper evident seals on all openings

DO YOU NEED TO HAVE A TANK CLEANOUT WHEN SWITCHING FROM INSTINCT[®] II TO INSTINCT[®] HL?

No, a small amount of Instinct II (no more than 3% of the total volume) can be present when tanks are filled with Instinct HL; however, if time allows for it, a tank clean out is always the best and preferred recommendation.

HOW LONG CAN INSTINCT[®] HL STAY SUSPENDED IN UAN?

Instinct HL will stay in suspension for several hours, not days. The key for good UAN blends is that even if Instinct HL separates, it is easy to remix with agitation.

HOW LONG CAN INSTINCT[®] HL STAY IMPREGNATED ON UREA?

Research had shown that Instinct HL product integrity is maintained when pretreated and stored on dry urea. This holds true when a batch is treated and application is delayed by weather or equipment events. However in the U.S., the EPA allows impregnation of Instinct HL to dry urea for specific customer orders, but currently the EPA views impregnated and stored in anticipation of orders as a non-approved practice.

Instinct® HL nitrogen stabilizer

WHY DID THE RATE CHANGE FROM 37 OZ/A TO 24 OZ/A?

The actual amount of active ingredient per acre did not change. The decrease in rate is due to the same patented capsule technology as Instinct® II but at a 1/3 less use rate.

Application Timing	Recommended Rate of Instinct® II	Recommended Rate of Instinct® HL
Fall	37-74 oz/A	24-48 oz/A
Spring	37-74 oz/A	24 oz/A
Sidedress	19-37 oz/A	12-24 oz/A

WHAT SHOULD BE DONE WITH OLD INVENTORY?

There is no need to immediately switch to Instinct® HL.

QUICK REFERENCE

	Instinct® II	Instinct® HL
Use Rate per acre	37 oz.	24 oz.
Freezing point	5° F.	7° F.
Formulation Technology	Capsule Suspension	Capsule Suspension
Weight per gallon	9.355 lbs /gal	9.639 lbs/gal
Acres per gallon	3.5	5.3
Packaging	2× 2.5, minibulk, and bulk	2× 2.5, minibulk, and bulk

For more information about Instinct HL, contact your local Dow AgroSciences sales representative.

