**Specimen Label**

**Dow AgroSciences**

**Instinct**

**Nitrogen Stabilizer**

Trademark of Dow AgroSciences LLC

Delays nitrification of ammoniacal and urea nitrogen fertilizer compositions in the soil by controlling the nitrification process in corn

Active Ingredient:
- nitrapyrin: 2-chloro-6-(trichloromethyl) pyridine ............... 17.67%
- Other Ingredients .......................................................... 82.33%
- Total ........................................................................ 100.00%

Contains petroleum distillates
Contains 1.85 lb of active ingredients per gallon.

EPA Reg. No. 62719-583

**Keep Out of Reach of Children**

**Precautionary Statements**

**Hazards to Humans and Domestic Animals**

Prolonged Or Frequently Repeated Skin Contact May Cause Allergic Reactions in Some Individuals

Note to Physician: May pose an aspiration pneumonia hazard. Contains petroleum distillate.

**Personal Protective Equipment (PPE)**

Some materials that are chemical-resistant to this product are barrier laminate and viton ≥14 mils. If you want more options, follow the instructions for category G on an EPA chemical resistance category selection chart.

Mixers, loaders, applicators and other handlers must wear:
- Coveralls worn over short-sleeved shirt and short pants
- Chemical-resistant gloves
- Chemical-resistant footwear plus socks
- When mixing and loading, or cleaning equipment, wear a chemical-resistant apron

Follow manufacturer’s instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

**User Safety Recommendations**

Users should:
- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**Environmental Hazards**

This pesticide is toxic to oysters/shrimp. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

This product may contaminate water through runoff. This product has a high potential for runoff for several weeks after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product.

A level well-maintained vegetative buffer strip between areas to which this product is applied and surface water such as ponds, streams, and springs will reduce the potential for contamination of water from rainfall runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Sound erosion control practices will reduce this product’s contribution to surface water contamination.

**Notice:** Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies elsewhere on this label. If terms are unacceptable, return at once unopened.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

**Directions for Use**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.
### Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment, restricted-entry interval, and notification to workers (as applicable). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 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.

For early entry into treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, wear:

- Coveralls
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks
- Protective eyewear

### Storage and Disposal

**Nonrefillable containers 5 gallons or less:**

**Container Handling:** Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by other procedures allowed by state and local authorities.

**Refillable containers 5 gallons or larger:**

**Container Handling:** Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

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### General Information

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

Instinct may be mixed with liquid fertilizer, insecticides, herbicides and/or water and applied as a preplant incorporated or preemergence (pre to corn) application. 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 moisture is necessary. If 0.5 inch of moisture does not occur within the 10-day window, incorporate mechanically with light tillage.

The best manure management practice is to inject liquid manure, but surface applications are also permitted.

### Precautions and Restrictions

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

**Chemigation:** Do not apply this product through any type of irrigation system.

### Mixing Directions

**Anhydrous Ammonia**

Instinct is soluble in liquid fertilizer and should not be tank mixed with anhydrous ammonia, although it may be applied with anhydrous ammonia if it is injected into the ammonia stream through a downstream injection system.

**Liquid Fertilizers**

Instinct may be mixed with liquid fertilizers such as aqua ammonia or other liquid ammoniacal or urea nitrogen fertilizers. Instinct can be added to urea ammonium nitrate liquid fertilizer without a compatibility agent, although when mixing Instinct 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 plus a compatibility agent in liquid fertilizer:

**Pre-Mix Method:** The compatibility agent and Instinct may be mixed together in a separate container and then added to the liquid fertilizer. Agitation should be continuous 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 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 at the rate of 35 to 70 fl oz per acre. The 70 fl oz per acre rate is recommended for all fall applications with animal manure. To ensure uniform mixing, Instinct may need to be premixed with a phosphate ester compatibility agent at a ratio of 1 part phosphate ester compatibility agent to 8 parts Instinct before adding Instinct to the liquid animal manure.

Do not use Instinct with dry fertilizers containing nitrogen such as ammonium nitrate, potassium nitrate or calcium nitrate. Do not mix seed with dry fertilizers impregnated with Instinct.

**Tank Mixing**

Instinct may also be applied in tank mixtures with preplant incorporated or preemergence herbicides or insecticides registered for use on corn. The tank mixes may be in water or in most urea-ammonium nitrate solutions, N-P-K solutions, slurries, or suspensions. Check the physical compatibility of these mixtures as indicated below. Maintain constant agitation during both mixing and application to ensure uniformity of the spray mixture. Read and carefully follow all applicable directions including dosage rates, restrictions, and precautions on labeling for the other products used in combination with Instinct.

The recommended mixing sequence is to add the herbicide(s) to the tank after Instinct and the compatibility agent (if used) have been thoroughly mixed. Wettable powders or flowables should be added before emulsifiable concentrates. Agitation should be continuous during the mixing cycle.

**Tank Mix Compatibility Test:** To test the compatibility of Instinct with liquid fertilizers and/or herbicide or insecticide mixes, add proportionate amounts of each ingredient to a small jar, cap, shake, and let stand for 15 minutes. Formation of precipitates or layers that do not readily redisperse indicates an incompatible mixture and should not be used.

**Corn**

**Preplant, Preemergence, At-Plant Row or Band Injection**

**Application:** Use Instinct at the rate of 35 fl oz per acre. Do not apply after corn has emerged.

**Liquid Manure:** Use Instinct at the rate of 70 fl oz per acre when fall applied with liquid manure or a minimum of 35 fl oz per acre when applied with liquid manure in the spring. Applying Instinct with liquid manure in the spring is limited to a preplant application only.

**Restrictions:**
- Do not apply more than 70 fl oz of Instinct (1 lb ai nitrapyrin) per acre per year on corn.
- **Replant restriction:** Crops other than corn are not to be rotated in less than one year from application.
- An enclosed cab must be used for groundboom application to corn.

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**Terms and Conditions of Use**

If terms of the following Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies.

**Warranty Disclaimer**

Dow AgroSciences warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. Dow AgroSciences MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

**Inherent Risks of Use**

It is impossible to eliminate all risks associated with use of this product. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Dow AgroSciences or the seller. All such risks shall be assumed by buyer.

**Limitation of Remedies**

To the extent permitted by law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at Dow AgroSciences' election, one of the following:

1. Refund of purchase price paid by buyer or user for product bought, or
2. Replacement of amount of product used

Dow AgroSciences shall not be liable for losses or damages resulting from handling or use of this product unless Dow AgroSciences is promptly notified of such loss or damage in writing. In no case shall Dow AgroSciences be liable for consequential or incidental damages or losses.

The terms of the Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Dow AgroSciences or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

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**Trademark of Dow AgroSciences LLC**

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