Dow AgroSciences

STATE OF HAWAII
Department of Agriculture
ACCEPTED
LICENSE NO.
9786.296

Instinct® II

NITROGEN STABILIZER

Use to delay nitrification of ammoniacal and urea nitrogen fertilizer compositions in the soil by controlling the nitrification process.

Active Ingredient:
nitrapyrin: 2-chloro-6-(trichloromethyl) pyridine..... 16.95%
Other Ingredients..... 83.05%
Total..... 100.00%

Contains Petroleum Distillate

Contains 1.58 lb of active ingredient per gallon.

Keep Out of Reach of Children

CAUTION

Agricultural Use Requirements
Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

For additional Precautionary Statements, First Aid, Storage and Disposal and other use information see inside this label.

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 at end of label booklet. 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.

EPA Reg. No. 62719-657 EPA Est. 5905-IA-01
99013502

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Produced for
Dow AgroSciences LLC
9330 Zionsville Road
Indianapolis, IN 46268

NET CONTENTS 2.5 GAL

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Avoid contact with eyes or clothing.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils,polyvinyl chloride (PVC) ≥14 mils, and viton ≥14 mils.

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 thoroughly with soap and water after handling and 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.

First Aid

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

NOTE TO PHYSICIAN: May pose an aspirational pneumonia hazard. Contains petroleum distillate.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

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.

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

Do not contaminate water, food, or feed by storage and disposal.
Pesticide Storage: Store in original container in secured dry storage area. Prevent cross-contamination with other pesticides and fertilizers. If container is damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below.

Storage and Disposal (Cont.)

Pesticide Disposal: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

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 incineration, or by other procedures allowed by state and local authorities.

Product Information

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

Ground Application Instinct II may be applied through ground application equipment 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

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

Mixing Directions

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

Premix Method: The compatibility agent and Instinct® II 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 II 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 II at the rate of 37 to 74 fl oz per acre. Use the 74 fl oz per acre rate for all fall applications with animal manure. To ensure uniform mixing, Instinct II 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® II before adding Instinct II to the liquid animal manure.

Granular Ammonium and Urea
Instinct II may be impregnated on urea and most dry ammoniacal fertilizers or fertilizer blends containing ammoniacal fertilizers. Uniform application in the field is necessary to insure optimum results.

Various equipment can be used to impregnate Instinct II onto dry fertilizers, including vertical and horizontal mixers. Once impregnated, fertilizer may be applied with either spinner, airflow, or other suitable equipment. Apply Instinct® II at a rate of 37 fl oz per acre. Use a minimum of 100 lb of dry fertilizer per acre. With lower rates of fertilizer (higher concentrations of Instinct II), the fertilizer may not readily absorb all of the liquid. For a suitable free-flowing mixture, add a drying agent, such as Hi-Sil 233, MP-79, RVM or LVM clay granules, or pelletized limestone to the mixture. Use 1 lb of drying agent per pint of Instinct II unless experience indicates a different amount works well. Do not apply more than 1 lb ai nitrapyrin per acre per year.

Immediately apply bulk fertilizers impregnated with Instinct II. 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® II and fertilizer.

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

Tank Mixing
Instinct II may also be applied in tank mixtures with preplant incorporated or preemergence herbicides or insecticides registered for use on corn, spring wheat, or winter wheat. 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 II.

For best results, add the herbicide(s) to the tank after Instinct® II and the compatibility agent (if used) have been thoroughly mixed. Add wettable powders or flowables before emulsifiable concentrates. Continuously agitate during the mixing cycle.

Tank Mix Compatibility Test: To test the compatibility of Instinct II 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.

Directions for Use

Corn

Instinct II may be mixed alone or in combinationswith liquid fertilizers, such as UAN, aqua ammonia, or other liquid ammoniacal or urea nitrogen fertilizers, insecticides, herbicides and/or water and applied as a preplant incorporated, preemergence or postplant, application

Preplant, Preemergence, At-Plant Row or Band Injection Application
Use Instinct II at the rate of 37 to 74 fl oz per acre.

Liquid Manure: Use Instinct II at the rate of 37 to 74 fl oz per acre when fall applied with liquid manure or a minimum of 37 fl oz per acre when applied with liquid manure in the spring. Applying Instinct II with liquid manure in the spring is limited to a preplant application only.

The best practice for manure fertilizerutilization is to inject liquid manure into the soil, however surface applications are also permitted.

Restrictions:
- Do not apply more than a total of 74 fl oz of Instinct® II (1 lb ai nitrapyrin) per acre per year on corn.
- **Replant restriction:** All crops (except for leafy vegetables and root and tuber crops) may be planted 30 days or more after last application. Leafy vegetable crops are not to be planted less than 120 days after last application. Root and tuber crops are not to be planted less than one year after last application.

Postplant (Side Dress) Application
Apply 19 to 37 fl oz of Instinct II per acre after corn emergence. The application may be injected, dribbled, or applied as a band with sidedress liquid fertilizer. Instinct II may also be impregnated onto dry fertilizer and applied.

Restrictions:
- Any postplant application of Instinct II must be applied prior to V6 stage of growth.
- Do not apply more than a total of 74 fl oz of Instinct II (1 lb ai nitrapyrin) per acre per year on corn.
- **Replant restriction:** All crops (except for leafy vegetables and root and tuber crops) may be planted 30 days or more after last application. Leafy vegetable crops are not to be planted less than 120 days after last application. Root and tuber crops are not to be planted less than one year after last application.

Spring Wheat or Winter Wheat

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

Instinct® II may be mixed with liquid fertilizer, liquid manure, urea, insecticides, herbicides and/or water and applied as a preplant incorporated or preemergence (pre to wheat emergence). Instinct II may be used at the rate of 37 to 74 fl oz per acre when fall applied or a minimum of 37 fl oz per acre when applied in the spring.

Restrictions:
- Do not apply more than a total of 74 fl oz of Instinct II (1 lb ai nitrapyrin) per acre per year on wheat.
- **Replant restriction:** All crops (except for leafy vegetables and root and tuber crops) may be planted 30 days or more after last application. Leafy vegetable crops are not to be planted less than 120 days after last application. Root and tuber crops are not to be planted less than one year after last application.

Postplant (Side Dress) Application
Instinct II may be applied at 37 fl oz per acre to actively growing wheat from emergence and up to 1st detectable joint (Feekes 6 or Zadock 31 growth stage). The Instinct® II application may be broadcast, injected, dribbled, or applied as a band with sidedress liquid fertilizers. Instinct II may also be impregnated onto dry fertilizer and applied.

Restrictions:
- Any postplant application of Instinct II must be applied prior to 1st detectable joint (Feekes 6 or Zadock 31 growth stage).
- Do not apply more than a total of 74 fl oz of Instinct® II (1 lb ai nitrapyrin) per acre per year on wheat.
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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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EPA accepted 05/22/14

Dow AgroSciences

Instinct® II

NITROGEN STABILIZER

Use to delay nitrification of ammoniacal and urea nitrogen fertilizer compositions in the soil by controlling the nitrification process.

Active Ingredient:
nitrapyrin: 2-chloro-6-(trichloromethyl) pyridine..... 16.95%
Other Ingredients..... 83.05%
Total..... 100.00%

Contains Petroleum Distillate

Contains 1.58 lb of active ingredient per gallon.

Keep Out of Reach of Children

CAUTION

Agricultural Use Requirements
Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

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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.

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NET CONTENTS 2.5 GAL

(01) 0 06 62974 70149 1

PEEL FILM HERE

51 1/4”

1 7/16” | 14 15/16” | 9 15/16” | 15 1/16” | 9 7/8”

4 7/8”

15 5/16”

4 7/8”

25 1/16” CORR.

Contents In Plastic
Do Not Cut To Open

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Refer to inside of label booklet for additional precautionary information including Directions for Use.

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2 X 2.5 GAL

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Instinct® II
NITROGEN STABILIZER 2 X 2.5 GAL

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Instinct® II
NITROGEN STABILIZER 2 X 2.5 GAL

99013503
BOX MFG. DATE:

STATE OF HAWAII
Department of Agriculture
ACCEPTED
LICENSE NO.
9786.296

Supplemental Labeling

Dow AgroSciences

Dow AgroSciences LLC 9330 Zionsville Road Indianapolis, IN 46268-1054 USA

Instinct® II

EPA Reg. No. 62719-657

This supplemental label expires on May 15, 2017, and must not be used or distributed after this date.

Preplant, Preemergence, At-Plant Row or Band Injection Application in Spring Wheat or Winter Wheat

ATTENTION

- It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
- This labeling must be in the possession of the user at the time of application.
- Read the label affixed to the container for Instinct® II insecticide before applying. Carefully follow all precautionary statements and applicable use directions.
- Use of Instinct II according to this supplemental labeling is subject to all use precautions and limitations imposed by the label affixed to the container for Instinct II.

Directions for Use

Refer to product label for Instinct II for General Use Precautions, Mixing, and Application

Spring Wheat or Winter Wheat

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

Instinct® II may be mixed with liquid fertilizer, liquid manure, urea, insecticides, herbicides and/or water and applied as a preplant incorporated or preemergence (pre to wheat emergence). Instinct II may be used at the rate of 37 to 74 fl oz per acre when fall applied or a minimum of 37 fl oz per acre when applied in the spring.

Restrictions:

- Do not apply more than a total of 74 fl oz of Instinct II (1 lb ai nitrapyrin) per acre per year on wheat.
- **Replant restriction:** All crops (except for leafy vegetables and root and tuber crops) may be planted 30 days or more after last application. Leafy vegetable crops are not to be planted less than 120 days after last application. Root and tuber crops are not to be planted less than one year after last application.

Postplant (Side Dress) Application

Instinct II may be applied at 37 fl oz per acre to actively growing wheat from emergence and up to 1st detectable joint (Feekes 6 or Zadock 31 growth stage). The Instinct® II application may be broadcast, injected, dribbled, or applied as a band with sidedress liquid fertilizers. Instinct II may also be impregnated onto dry fertilizer and applied.

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