

1/31/97

PM 23

62719-19

Pg 1214

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 05-31-98



United States  
Environmental Protection Agency  
Washington, DC 20460

☐ Registration  
☐ Amendment  
☒ Other ~~EPA~~ ~~NOT~~

OPP Identifier Number

249093

## Application for Pesticide - Section I

1. Company/Product Number DowElanco/62719-19	2. EPA Product Manager J. Miller	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) DowElanco/N-Serve 24E	PM# 23	
5. Name and Address of Applicant (Include ZIP Code) DowElanco 9330 Zionsville Road Indianapolis, IN 46268 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

## Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

**NOTIFICATION**  
JAN 31 1997

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Submission of Notification on Main Labeling per PR Notice 95-2, see attached Registration Notes coded CIA/N-Serve 24E/Notif/01-09-967.

## Section - III

## 1. Material This Product Will Be Packaged In:

Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt No. per container

3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container	4. Size(s) Retail Container	5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____

## Section - IV

## 1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)

Name Dennis H. Lade, Ph.D.	Title Product Registration Manager	Telephone No. (Include Area Code) (313) 337-4685
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## Certification

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

6. Date Application Received  
(Stamped)

2. Signature <i>Dennis H. Lade</i>	3. Title Product Registration Manager
4. Typed Name Dennis H. Lade, Ph.D.	5. Date January 20, 1996

## N-Serve\* 24E

EPA Reg. No. 62719-19

Master label: 62719-19-MTR  
N-Serve 24E label: 62719-19

### Registration Notes:

Current label text based on EPA accepted copy dated May 26, 1996.

#### Proposed Label Changes by Notification (prepared January 9, 1997):

1. Sale copy: Selections added to sale copy to accommodate sub-registrant labeling.
2. Storage and Disposal: Section expanded to include a wider range of container materials and package types.
3. Approved Crops: Parenthetical references to "Starter" and "Split Application on Corn" added for clarification.
4. Warranty Statement: Additional warranty statement added for sub-registrant use.

\*Trademark of DowElanco

**NOTIFICATION**

JAN 31 1997

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EPA Reg. No. 62719-19

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4. Warranty Statement: Additional warranty statement added for sub-registrant use.

\*Trademark of DowElanco

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(Base label):

(logo) DowElanco

## N-Serve\* 24E

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

[Editor's note: The following statements are for sub-registrant use.]

For Use On:

- Corn
- Sorghum
- Wheat

Mixes With:

- Solutions
- Suspensions
- Dry Blends
- Water
- Herbicides

Active Ingredients:

nitrapyrin: 2-chloro-6-(trichloromethyl)	
pyridine .....	21.9%
related chlorinated pyridines .....	2.4%
Inert Ingredients .....	75.7%

Contains 2 pounds of active ingredients per gallon.

NOTIFICATION  
JAN 3 1997  
NOTIFICATION  
JAN 31 1997

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### Precautionary Statements

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#### Hazards to Humans and Domestic Animals

Keep Out of Reach of Children

**DANGER      PELIGRO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

**Causes Irreversible Eye Damage • Harmful If Swallowed • Harmful If Absorbed Through Skin • The Active Ingredient In This Product May Cause Skin Sensitization Reactions In Certain Individuals**

**Do not get in eyes or on clothing. Avoid contact with skin. Avoid breathing vapor or spray mist.**

#### Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category G on an EPA chemical resistance category selections chart.

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**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as Barrier Laminate or Viton
- Shoes plus socks
- Protective eyewear

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, 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 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:** Flush with plenty of water for at least 15 minutes. Get medical attention.

**If swallowed:** Do not induce vomiting. Contains aromatic petroleum solvent. Call a physician or Poison Control Center.

**If on skin:** Wash with plenty of soap and water. Get medical attention if irritation persists.

**If inhaled:** Remove to fresh air if effects occur. Get medical attention.

**Environmental Hazards**

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of wastes.

**Physical or Chemical Hazards**

**Combustible - Do not use, pour, spill or store near heat or open flame.**

**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.

**Refer to label booklet for additional precautionary information including Personal Protective Equipment (PPE), User Safety Recommendations and Directions for Use including Storage and Disposal.**

**Notice:** Read the entire label. Use only according to label directions. **Before buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" inside label booklet.**

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In case of emergency endangering health or the environment involving this product, call collect 517-636-4400.

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

EPA Reg. No. 62719-19

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EPA Est. 464-CA-1; 5905-IA-01

Superscripts correspond to places 7 & 8 of lot number.

\*Trademark of DowElanco

DowElanco • Indianapolis, IN 46268 U.S.A.

## Nitrogen Stabilizer

Net Contents XXX

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(Datapack cover):

(logo) DowElanco

## N-Serve\* 24E

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

[Editor's note: The following statements are for sub-registrant use.]

For Use On:

- Corn
- Sorghum
- Wheat

Mixes With:

- Solutions
- Suspensions
- Dry Blends
- Water
- Herbicides

Active Ingredients:

nitrapyrin: 2-chloro-6-(trichloromethyl)  
pyridine ..... 21.9%  
related chlorinated pyridines ..... 2.4%

Inert Ingredients ..... 75.7%

Contains 2 pounds of active ingredients per gallon.

Keep Out of Reach of Children

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(Page 1 through end):

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**Precautionary Statements**

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**Causes Irreversible Eye Damage • Harmful If Swallowed • Harmful If Absorbed Through Skin • The Active Ingredient In This Product May Cause Skin Sensitization Reactions In Certain Individuals**

**Do not get in eyes or on clothing. Avoid contact with skin. Avoid breathing vapor or spray mist.**

**Personal Protective Equipment (PPE)**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category G on an EPA chemical resistance category selections chart.

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as Barrier Laminate or Viton
- Shoes plus socks
- Protective eyewear

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, 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.
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**Environmental Hazards**

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**Physical or Chemical Hazards**

**Combustible - Do not use, pour, spill or store near heat or open flame.**

### 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 (PPE) and restricted-entry interval. 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.

PPE required for early entry to 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, is:

- Coveralls
- Chemical-resistant gloves such as Barrier Laminate or Viton
- Shoes plus socks
- Protective eyewear

### Storage and Disposal

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

**Storage:** Store above 18°F to keep product in solution. Below 14°F, crystals may form and settle to the bottom. To redissolve the crystals, allow the contents to warm up to about 70°F and to stand for several days at that temperature. Once the crystals have dissolved, a gentle rolling of the container will ensure a uniform mixture of the contents.

**Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your state pesticide or environmental control agency, or the hazardous waste representative at the nearest EPA regional office for guidance.

**Container Disposal:** 2 ½ Gallon Plastic Bottles and Non-Returnable Plastic Drums: Do not reuse empty container. Triple rinse (or equivalent), adding rinsate to spray tank. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Non-Returnable Metal Drums:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by the state and local authorities.

**Returnable Non-Bulk or Bulk Containers:** Return empty container to point of purchase.

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## General Information

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N-Serve 24E Nitrogen Stabilizer is an emulsifiable product that may be used in formulation of and application with aqua ammonia, other liquid ammoniacal or urea nitrogen fertilizer compositions or liquid animal wastes. When liquid or dry ammonium and urea fertilizers and animal wastes are surface applied, N-Serve 24E may be used with water and applied during the incorporation operation.

### General Use Precautions

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

N-Serve 24E is corrosive to aluminum components which may affect the operation of pumping, mixing and application equipment. To minimize corrosion of equipment and for maximum effectiveness, do not store liquid fertilizer solutions containing N-Serve 24E. Use within 72 hours of mixing. Rinse application equipment used to apply liquid fertilizers and N-Serve 24E with water after each use. Use with hot mix fertilizers is not recommended. High temperatures generated in production of these mixtures can cause rapid degradation of product and a reduction in effectiveness.

### Mixing Directions

To prepare the spray, add 1/2 of the required amount of water or fertilizer to the spray tank and, with agitation, add the N-Serve 24E. Complete filling the tank with the balance of the water or fertilizer needed. When adding N-Serve 24E through eductor systems on fertilizer application units, either premix one part of N-Serve 24E to two parts water or be careful to open the inlet valve only about 1/3 of maximum. Either method will reduce the ratio of N-Serve 24E to fertilizer and thus reduce the possibility of formation of undesirable invert emulsions of N-Serve 24E and fertilizer. When making applications of N-Serve 24E and liquid nitrogen fertilizer compositions or liquid animal wastes, agitation must be provided before and during application to maintain a uniform mixture of N-Serve 24E. The application system must be capable of keeping a suspended solid dispersed throughout the liquid.

### Tank Mixing Directions

N-Serve 24E may also be applied in tank mixtures in water or in most urea-ammonium nitrate solutions and N-P-K solutions, slurries or suspensions with the following preplant incorporated herbicides: atrazine or Bladex for use on sorghum; and Sutan+, atrazine, Bladex, Eradicane, Lasso, Dual, or combinations of Sutan+ with atrazine or Bladex for use on corn. Physical compatibility of these tank mixtures should be determined before combining in the spray tank. Tank mixtures of N-Serve 24E and these herbicides in water generally do not require a compatibility aid such as Compex or Unite while tank mixtures with fertilizers frequently will. 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 for the specified crops on labeling for the other products used in combination with N-Serve 24E.

The suggested mixing sequence for tank mixtures of N-Serve 24E with herbicides in water or liquid nitrogen fertilizers is as follows:

1. Fill the spray tank 1/2 full of water or liquid fertilizer.
2. Begin agitation.
3. Add a compatibility aid, if needed. (If water slurried premixes of wettable powders or flowables are used as in Steps 4 and 5, a compatibility aid may be added to the premix for convenience.)
4. Add wettable powder formulations to the tank (make a water slurry with wettable powders first).
5. Add flowable formulations to the tank.
6. Add emulsifiable concentrate formulations including N-Serve 24E to the tank (premix 1:2 with water first if introduced to the tank through eductor systems).
7. Add the balance of the water or liquid fertilizer and continue agitation until the tank is empty.

**Note:** Test compatibility of the intended tank mixture before adding N-Serve 24E to the spray or mix tank. Add proportionate amounts of each ingredient to a pint or quart jar, cap, shake, and let set 15 minutes. Formation of precipitates or layers that do not readily redisperse indicates an incompatible mixture that should not be used.

### **Use and Dosage Recommendations**

N-Serve 24E must be injected or incorporated in a zone or band in the soil with the fertilizer at a minimum depth of 2 to 4 inches during or immediately after application.

### **Approved Crops**

#### **Corn, Sorghum, Wheat**

##### **Preplant or At-Plant (Starter) Row or Band Application**

Use N-Serve 24E at the rate of 1 quart per acre. (See also "Split Application on corn".)

##### **Preplant or At-Plant Broadcast Application**

Use N-Serve 24E at the rate of 1 to 2 quarts per acre. The higher rate is preferred when fall applications are made to spring planted crops. (See also "Split Application on corn".)

##### **Application With Liquid Animal Wastes**

Use N-Serve 24E at the rate of 1 to 2 quarts per acre and apply preplant in the fall or spring. The 2 quart per acre rate is recommended for all fall applications with animal wastes.

##### **Postplant (Side Dress) Application in Corn**

Use N-Serve 24E at the rate of 1/2 to 1 quart per acre at any time after crop emergence, up to 30 days post plant.

##### **Split Application on Corn**

In addition to a preplant or at-plant (starter) application, a second application may be made postplant at the rate of 1/2 to 1 quart of N-Serve 24E per acre. For high yield production, use the 1 quart per acre rate. The total amount of N-Serve 24E applied in a split application program involving a preplant or at-plant treatment followed by a postplant treatment must not exceed 2 quarts per acre per year.

##### **Restrictions**

Do not apply more than 2 quarts of N-Serve 24E per acre per year on corn, sorghum, and wheat. Make only one postplant application per year. Postplant applications can only be made up to 30 days postplant on corn. Crops listed on this label may be rotated in less than one year from the last application. All other crops are not to be rotated in less than one year from the last application.

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**Warranty Disclaimer**

DowElanco 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. DowElanco MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

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**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 DowElanco or the seller. All such risks shall be assumed by buyer.

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**Limitation of Remedies**

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 DowElanco's 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

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

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

[Editor's Note: The following statements are for sub-registrant use.]

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**Warranty Disclaimer**

Seller 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. SELLER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

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

The terms of the "Warranty Disclaimer" above and this "Limitation of Remedies" cannot be varied by any written or verbal statements or agreements. No employee or sales agent of the Seller or the seller is authorized to vary or exceed the terms of the "Warranty Disclaimer" or this "Limitation of Remedies" in any manner.

\*Trademark of DowElanco

EPA-accepted 05-26-96