

1381-102

6/18/2010

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

June 18, 2010

Alice Walker, Ph.D.  
Regulatory Consulting  
3094 Country Club Road  
Senatobia, MS 38668

Subject: Application for Pesticide Notification (PRN 98-10) – Adding Adjuvant Statement  
2,4-D LV 4  
EPA Reg. No. 1381-102  
Your Application Dated March 31, 2010

Dear Dr. Walker:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated March 31, 2010 for the above mentioned product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested fall within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please call me directly at 703-305-6249.

Sincerely,

A handwritten signature in black ink, appearing to read "Linda Arrington".

Linda Arrington  
Notifications & Minor Formulations Team Leader  
Registration Division (7505P)  
Office of Pesticide Programs

<h1 style="margin:0;">EPA</h1>	United States <b>Environmental Protection Agency</b> Washington, DC 20460	<input type="checkbox"/> <b>Registration</b> <input type="checkbox"/> <b>Amendment</b> <input checked="" type="checkbox"/> <b>Other</b>	OPP Identifier Number
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**Application for Pesticide -Section I**

1. Company/Product Number 1381-102	2. EPA Product Manager Kathryn Montague	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) 2,4-D LV4	PM# 23	
5. Name and Address of Applicant (Include ZIP Code)  Winfield Solutions LLC, c/o Alice Walker 3094 Country Club Rd. Senatobia, MS 38668  <input type="checkbox"/> Check if this is a new address		6. <b>Expedited Review.</b> 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"/> Resubmission in response to Agency letter dated _____ <input checked="" type="checkbox"/> Notification - Explain below	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____ <input type="checkbox"/> "Me Too" Application <input type="checkbox"/> Other - explain below
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NOTIFICATION  
JUN 1 8 2010

**Explanation:** Use additional page(s) if necessary. (For Section I and Section II).  
 Notification to add CPDA certified adjuvant statement. I believe this notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under section 12 and 14 of FIFRA.

**Section III**

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

Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No  <small>*Certification must be submitted.</small>	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  If "Yes," Unit Package Wt.    No. Per Container	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  If "Yes," Package Wt.    No. Per Container	2. Type of Container <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
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3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container	4. Size(s) of Retail Container 1, 2.5, 30, 55 gallons	5. Location of Label Directions <input type="checkbox"/> On Label <input checked="" type="checkbox"/> On Labeling accompanying product
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6. Manner In Which Label Is Affixed To Product     Lithograph     Other ( self-adhesive booklet )  
 Paper Glued  
 Stenciled

**Section IV**

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

Name Alice Walker	Title Registration Specialist	Telephone No. (Include Area Code) 662-562-5995
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<p style="text-align: center;"><b>Certification</b></p> 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  	3. Title Registration Specialist
4. Typed Name Alice Walker	5. Date March 31, 2010



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# AgrisOLUTIONS™

## NOTIFICATION

### 2,4-D LV4

### JUN 18 2010

**ACTIVE INGREDIENT:**

2-ethylhexyl ester of 2,4-dichlorophenoxyacetic acid\* ..... 66.2%

OTHER INGREDIENTS:\*\* ..... 33.8%

Total ..... 100.0%

\*Isomer Specific by AOAC Method No. 6.275 (13th edition) 1980 \* 2,4-Dichlorophenoxyacetic acid equivalent 44.0%.

\* Contains petroleum distillates.\*

Contains 3.8 lbs. of 2,4-Dichlorophenoxyacetic acid per gallon.

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed. Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin, or clothing. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

#### FIRST AID

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Do not give ANY liquid to the person. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**IF IN EYES:** Hold eyelids 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. Call a poison control center or doctor for treatment advice.

**IF ON SKIN:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

**NOTE TO PHYSICIAN:** Contains petroleum distillate – vomiting may cause aspiration hazard.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For additional information in case of medical emergency call toll free 1-877-424-7452.

#### Personal Protective Equipment:

Some materials that are chemical-resistant to this product are neoprene, nitrile rubber, barrier laminate, or viton. If you want more options, follow the instructions for category E on an EPA chemical resistance category selection chart.

All mixers, loaders, applicators, flaggers, and other handlers must wear:

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves when applying with any handheld nozzle or equipment, mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate.
- Chemical-resistant apron when mixing or loading, cleaning up spills or equipment, or otherwise exposes to the concentrate.
- Shoes plus socks.

See engineering controls for additional requirements.

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

EPA Reg. No. 1381-102

EPA Est. No. 70989-A-1

Distributed by:

Winfield Solutions, LLC

P.O. Box 64589, St. Paul, MN 55164-0089

NET CONTENTS 2-1/2 GALLONS  
1/0331/0

**Engineering controls statement:**

(STATEMENT TO BE ADDED WHEN CONTAINER SIZE IS 5 GALLONS OR MORE)

Do not pour product from this container. A mechanical system (pump and probe or spigot) must be used in transferring the contents of this container. If the contents of a non-refillable pesticide container are emptied, the probe must be rinsed before removal. If the mechanical system is used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (6)]. When handlers use closed systems, enclosed cabs, or aircraft, in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**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 product may be toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below mean high water mark. Drift and runoff may be hazardous to aquatic invertebrates in water adjacent to treated areas. Drift or runoff may adversely affect non-target plants. Do not contaminate water when disposing of equipment washwaters or rinsate.

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Application around a cistern or well may result in contamination of drinking water or groundwater.

Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D have been associated with mixing/loading and disposal sites. Caution should be exercised when handling 2,4-D pesticides at such sites to prevent contamination of groundwater supplies. Use of closed systems for mixing and transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

Use care to avoid spray contact or drift to susceptible plants such as beans and other legumes, cotton, flowers, grapes, ornamentals, vegetables, and other plants. Do not permit spray mist containing this product to drift onto them, since even very small quantities of the spray, which may not be visible, can cause severe injury during both growing and dormant periods.

**DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. 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 application.

**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 of this box apply only 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 12 hours.

PPE required for early entry to treated areas this 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 made of any waterproof material.
- Shoes plus socks.

**NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter or allow people (or pets) to enter the treated area until sprays have dried.

**STORAGE AND DISPOSAL**

**Do not contaminate water, food or feed by storage or disposal.**

**PESTICIDE STORAGE:** Store in a secure area, in original container only. Do not store near feed or foodstuffs.

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law and may contaminate groundwater. 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:** Plastic containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Metal containers: 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 state and local authorities.

**FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure or accident, call  
CHEMTREC 1-800-424-9300.**

**WEED LIST**

**2,4-D LV4** will control these plants and other 2,4-D susceptible species:

**ANNUAL AND BIENNIAL WEEDS**

Annual fanweed (field pennycress), annual yellow sweet clover, \* beggarticks, bull thistle, burdock, carpetweed, chickweed, cocklebur, coffeeweed, common mullein, common evening primrose, cornflower, croton, galinsoga, goatsbeard, hemp, henbit, horseweed (marestail), jewelweed, jimsonweed, \* knotweed, \* kochia, lambsquarters, mallow (Venice, dwarf, little), marshelder, morning glory (common, ivy, wooly), musk thistle, mustards (except blue), pennycress, pepperweed (field), \*\* pigweeds, poorjoe (wooly plantain), \* prickly lettuce, puncturevine, purslane, ragweed (common and giant), rough fleabane, Russian thistle, salsify, shepardspurse, stinkweed, \* smartweeds (annual), sowthistle (annual or spiny), sunflower, tansymustard, tumbleweed, velvetleaf, vetches, water primrose, \* wild carrot, wild lettuce, wild parsnips, wild radish, wild sweet potato.

**PERENNIAL WEEDS**

\* Alfalfa, \* bindweeds (hedge, field and European), blue lettuce, \* broom snakeweed, buckhorn plantain, buttercup, \* Canada thistle, catnip, chamise, chicory, climbing milkweed, curly indigo, dandelion, \* docks, \* dogbanes, \* goldenrod, \* ground ivy, \* hawkweed (orange), \* hoary cress, \* Jerusalem artichoke, locoweed, \* many-flowered aster, milkvetch, \* nettles, nutgrass, plantains, poison ivy, pokeweed, sheep sorrel, sicklepod, sneezeweed (bitter), sowthistle (perennial), \* tansy ragwort, \* vervains, \* wild garlic, wild onion, witchweed, wormwood, yellow rocket, yellow starthistle.

**\* BRUSH**

Boxelder, buckbrush, coyotebrush, elderberry, manzanita, rabbitbrush, sagebrush (coastal, big, sand), sand shinnery oak, sumac, willow.

\* These species may require repeat treatments and/or the specified higher rate. \*\* Control of pigweeds in the Texas and Oklahoma High Plains may be difficult. Do not exceed maximum application rates specified.

**USE DIRECTIONS**

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

Unless noted otherwise under individual **DIRECTIONS** section, for aerial application, apply the specified amount in a minimum of 2 gallons of water per acre. For ground application, apply the specified amount in a minimum of 3 gallons of water per acre. Use more water for both methods when adverse growing conditions are present. **DO NOT** apply with high spray pressures, hollow cone or other nozzle types that produce small spray droplets which may drift. Avoid spray drift by making applications when conditions such as wind, air stability and temperature inversions are not a factor. The use of a suitable drift control agent at the proper rate will aid in the reduction of spray drift. Apply when weather is warm and plants are rapidly growing. Cold weather or dry conditions may cause poor results. **DO NOT** apply if rain is expected within an hour. Consult your local

agronomist or Extension specialist for specific use and crop tolerance situations. When stored at temperatures below freezing, it may be necessary to warm contents to 45° F. and mix thoroughly before using.

### SPRAY DRIFT MANAGEMENT

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, and relative humidity) and method of application (e.g., ground, aerial, airblast) can influence pesticide drift. The applicator must evaluate all factors and make appropriate adjustments when applying this product.

2,4-D esters may volatilize during conditions of low humidity and high temperatures. Do not apply during conditions of low humidity and high temperatures.

#### Droplet Size

When applying sprays that contain 2,4-D as the sole active ingredient, or when applying sprays that contain 2,4-D mixed with active ingredients that require a Coarse or coarser spray, apply only as a Coarse or coarser spray (ASAE standard 572) or a volume mean diameter of 385 microns or greater for spinning atomizer nozzles.

When applying sprays that contain 2,4-D mixed with other active ingredients that require a Medium or more fine spray, apply only as a Medium or coarser spray (ASAE standard 572) or a volume mean diameter of 300 microns or greater for spinning atomizer nozzles.

#### Wind Speed

Do not apply at wind speeds greater than 15 mph. Only apply this product if the wind direction favors on-target deposition and there are not sensitive areas (including, but not limited to, residential areas, bodies of water, known habitat for non-target species, non-target crops) within 250 feet downwind. If applying a Medium spray, leave one swath unsprayed at the downwind edge of the treated field.

#### Temperature Inversions

If applying at wind speeds less than 3 mph, the applicator must determine if:

- a) conditions of temperature inversion exist, or
- b) stable atmospheric conditions exist at or below nozzle height. Do not make applications into areas of temperature inversions or stable atmospheric conditions.

#### Susceptible Plants

Do not apply under circumstances where spray drift may occur to food, forage, or other plantings that might be damaged or crops thereof rendered unfit for sale, use or consumption. Susceptible crops include, but are not limited to, cotton, okra, flowers, grapes (in growing stage), fruit trees (foliage), soybeans (vegetative stage), ornamentals, sunflowers, tomatoes, beans, and other vegetables, or tobacco. Small amounts of spray drift that might not be visible may injure susceptible broadleaf plants.

#### Other State and Local Requirements

Applicators must follow all state and local pesticide drift requirements regarding application of 2,4-D herbicides. Where states have more stringent regulations, they must be observed.

#### Equipment

All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers or surrogates.

#### *Additional requirements for aerial applications:*

The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter. Release spray at the lowest height consistent with efficacy and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety. This requirement does not apply to forestry or rights-of-way applications. When applications are made with a crosswind, the swath will be displaced downwind. The applicator must compensate for this by adjusting the path of the aircraft upwind.

#### *Additional requirements for ground boom application:*

Do not apply with a nozzle height greater than 4 feet above the crop canopy.

### MIXING INSTRUCTIONS

**WATER BASED SPRAY** -- Fill the equipment half full of water, agitate while adding this product, then add the rest of water.

**WATER AND SOYBEAN OIL OR PETROLEUM OIL-BASED SPRAY**-- First mix this product with the oil, then add to water. If





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**\*\* DO NOT** apply from 2 weeks before tasseling to dough stage. **DO NOT** apply to open whorls. To avoid injury, do not use with atrazine, oil or other adjuvants. Application during high moisture and temperature conditions may cause injury or brittleness.  
**DO NOT** cultivate for a week to 10 days after treatment or stalk breakage may occur.

Late season weed control – Preharvest (Field corn and popcorn only)	1 to 2 pints *	Apply after silks are completely brown (denting stage) to reduce weeds that interfere with harvest and to decrease weed seed production. Do not apply to sweet corn.
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\* Use lower rate for small annual and biennial weeds. Use the higher rate for perennial and larger hard-to-kill annual and biennial weeds.

**RESTRICTIONS AND LIMITATIONS FOR FIELD CORN AND POPCORN:**

- Do not use treated crop as fodder for 7 days following application.
- The preharvest interval (PHI) is 7 days.
- Maximum of 5.2 pts. (2.42 lbs. ae) per acre per crop cycle.
- Preplant or preemergence:  
Limited to one preplant or preemergence application per crop cycle.  
Maximum of 2.1 pts. (1 lb. ae) per acre per application.
- Postemergence:  
Limited to one postemergence application per crop cycle.  
Maximum of 1 pt. (1/2 lb. ae) per acre per application.
- Preharvest:  
Limited to one preharvest application per crop cycle.  
Do not exceed 2 pts. per acre per application for preharvest use.

**RESTRICTIONS AND LIMITATIONS FOR SWEET CORN:**

- Do not use treated crop as fodder for 7 days following application.
- The preharvest interval (PHI) is 45 days.
- Minimum of 21 days between applications.
- Maximum of 3.15 pts. (1 1/2 lbs. ae) per acre per crop cycle.
- Preplant or preemergence:  
Limited to one preplant or preemergence application per crop cycle.  
Maximum of 2.1 pts. (1 lb. ae) per acre per application.
- Postemergence:  
Limited to one postemergence application per crop cycle.  
Maximum of 1 pt. (1/2 lb. ae) per acre per application.

**SOYBEANS**

WEEDS	AMOUNT OF 2,4-D LV4 PER ACRE	DIRECTIONS
Preplant – Emerged broadleaf weeds	1 to 2.1 pints	After applying, plant soybean seed as deep as practical or at least 1-1/2 to 2 inches deep. Seed furrow must be completely closed or severe crop injury will result.

**USE RESTRICTIONS AND LIMITATIONS FOR SOYBEANS:** Do not perform tillage for at least 7 days after application. Do not use on sandy soils or unacceptable crop injury may result. Do not replant treated fields in the same growing season with crops that are not labeled for 2,4-D preplant use.

- The maximum rate per crop cycle is 2.1 pints (1 lbs. ae) per acre.
- Preplant:  
Limited to 2 preplant applications per crop cycle.  
Maximum of 1 pint (1/2 lb. ae) per acre per preplant application.  
Apply not less than 7 days prior to planting soybeans.

**OR**

- Preplant:  
Limited to 1 application per crop cycle.  
Maximum of 2.1 pints (1 lb. ae) per preplant application.  
Apply not less than **15** days prior to planting soybeans.

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**GRAIN SORGHUM**

WEEDS	AMOUNT OF 2,4-D LV4 PER ACRE	DIRECTIONS
Annual broadleaf weeds	1/2 pint	Apply to plants that are 5 to 15 inches tall. <b>DO NOT</b> treat plants less than 5 inches tall or from boot to early dough stage. Use drop nozzles when crop is 8 inches or taller. The higher rate may be needed for some weeds, but chances of crop injury may increase. <b>DO NOT</b> use oil. Some varieties and hybrids are 2,4-D sensitive. Crop injury may also be increased by high moisture and temperature conditions. Check with your seed company and Extension Service for advice.
Perennial broadleaf weeds	2/3 to 1 pint	

**RESTRICTIONS AND LIMITATIONS FOR GRAIN SORGHUM:**

- The preharvest interval (PHI) is 30 days.
- Do not permit meat or dairy animals to consume treated crop as fodder or forage for 30 days following application.
- Postemergence:  
Limited to 1 application per crop cycle.  
Maximum of 1 pt. (1/2 lb. ae) per acre per application.

**SMALL GRAINS (Not underseeded with legumes)**

WEEDS	AMOUNT OF 2,4-D LV4 PER ACRE	DIRECTIONS
Postemergence - Spring wheat, barley, and rye - Annual and biennial weeds	1/2 to 2 pints *	Apply when grain is in full tiller stage (4 to 8 inches high) but before boot stage (Zadoks 2 <sub>5</sub> to 4 <sub>0</sub> ) when weeds are small and actively growing. Up to 2 pints per acre may be used to control difficult weed problems, but do not use unless some crop damage is acceptable. Apply only in the spring when crop is fully tillered, but before grain is in boot stage (before Zadoks 4 <sub>0</sub> ). For improved control of difficult weeds, apply up to 2 pints per acre.
Perennial broadleaf weeds	1 to 2 pints **	

**\*\* DO NOT USE THE HIGHER RATE IF POSSIBLE CROP INJURY IS NOT ACCEPTABLE**

Spring and winter wheat and barley Resistant weeds	2,4-D LV4 may be used in combination with "Ally"™, "Harmony Extra"™, "Express"™, "Finesse"™, at their earlier application intervals to control resistant weeds such as kochia and Russian thistle. Follow application directions on each product label.	
Winter wheat and rye Annual weeds	1/2 to 1 pint **	Apply only in the spring when crop is fully tillered, but before grain is in boot stage (before Zadoks 4 <sub>0</sub> ). For improved control of difficult weeds, apply up to 2 pints per acre.

**\*\* DO NOT USE THE HIGHER RATE IF POSSIBLE CROP INJURY IS NOT ACCEPTABLE**

Wild garlic or onions	1/2 to 2 pints *	Apply 1-1/2 pints when grain is at full tiller and wild garlic and onion plants are small. Apply 2 pints after harvest to the crop stubble. For control of new fall growth of these plants, refer to fallow land use directions.
Spring-seeded oats	1/2 to 2/3 pint*	Apply at full tiller, but before early boot stage (Zadoks 2 <sub>5</sub> to 4 <sub>0</sub> ).
Fall seeded oats grown for grain (Southern)	2/3 to 1-1/2 pints*	Apply at full tiller, but before early boot stage (Zadoks 2 <sub>5</sub> to 4 <sub>0</sub> ).

\* Difficult to control weeds may require higher rate, but some injury may occur since oats are less tolerant to 2,4-D than wheat or barley. **DO NOT** spray during or just after cold weather.

Preharvest - Cereal grains	1 pint	Apply when grain is in hard dough stage (Zadoks 8 <sub>7</sub> ) to control weeds that will interfere with harvest. Apply when soil moisture is adequate for weed growth for best results.
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\* Use the lower rate for small annual and biennial weeds. Use the higher rate for perennial weeds or hard-to-kill annual or biennial weeds. The higher rate should be used only where heavy weed infestation is a problem and increased risk of crop damage is acceptable.

**RESTRICTIONS AND LIMITATIONS FOR SMALL GRAINS:**

- The preharvest interval (PHI) is 14 days.
- Postemergence:  
Limited to one postemergence application per crop cycle.

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- Maximum of 2 pts. (1 lb. ae) per acre per application.
- Preharvest:
  - Limited to one preharvest application per crop cycle.
  - Maximum of 1 pt. (1/2 lbs. ae) per acre per application.
- Limited to 3 pts. (1.425 lbs. ae) per acre per crop cycle.

**FALLOW GROUND (crop stubble on idle land, or postharvest to crops, or between crops)**

WEEDS	AMOUNT OF 2,4D LV4 PER ACRE	DIRECTIONS
Annual broad-leaf weeds	1 to 2 pints	Use the lower rate for small actively growing weeds. Use the higher rate on larger or weather stressed weeds.
Biennial weeds	2 to 4.2 pints	Use the lower rate in the spring on biennial weeds such as the musk thistle during the rosette stage before stalks have formed. Use the higher rate after stalk formation or in the fall.
Perennial weeds	2 to 4.2 pints	Apply during the bud to bloom stage while weeds are actively growing. Do not till for 2 weeks after treatment or until the weeds start to die.
Wild onions and garlic	4.2 pints	Apply to regrowth in fall after harvest.

**RESTRICTIONS AND LIMITATIONS FOR FALLOW GROUND (crop stubble on idle land, or postharvest to crops, or between crops):**

- Plant only labeled crops within 29 days following application.
- Limited to 2 applications per year.
- Maximum of 4.2 pts. (2 lbs. ae) per acre per application.
- Minimum of 30 days between applications.

**PLANTING IN TREATED AREAS:**

**Labeled Crops:** Within 29 days after an application of this product, plant only those crops listed on this or other registered 2,4-D labels. Follow more specific limitations, if any, provided in directions for specific crops. Labeled crops may be at risk of crop injury or loss if planted soon after application, especially during the first 14 days. Degradation factors described below should be considered in weighing this risk.

**Other Crops:** All other crops may be planted 30 or more days after application without concern for illegal residues in the planted crop. However, under certain conditions, there may be a risk of injury to susceptible crops. Degradation factors described below should be considered in weighing this risk. Under normal conditions, any crop may be planted without risk of injury if at least 90 days of soil temperatures above freezing have elapsed since application.

**Degradation Factors:** When planting into treated areas, the risk of crop injury is less if lower rates of product were applied and conditions following application have included warm, moist soil conditions that favor rapid breakdown of 2,4-D. Risk is greater if higher rates of product were applied and soil temperatures have been cold and/or soils have been excessively wet or dry in the days following application. Consult your local agricultural extension service or information about susceptible crops and typical conditions in your area.

**CONSERVATION RESERVE PROGRAM AREA PASTURES AND RANGELAND NOT IN AGRICULTURAL PRODUCTION**

WEEDS	AMOUNT OF 2,4D LV4 PER ACRE	DIRECTIONS
Annual broadleaf and * perennial weeds	3 pints	Do not apply after heads form or when grass is in boot to milk stage when a seed crop is desired. <b>DO NOT</b> use on alfalfa, clover, other legumes, or newly seeded pastures. For aerial application, apply the recommended amount in a minimum of 2 gallons of water per acre. For ground application, use a minimum of 10 gallons of water per acre.
** Buckbrush, coyotebrush, rabbitbrush, sagebrush, and other chaparral species.	4.2 pints	Apply in 5 to 10 gallons of water plus 1 gallon of oil or 1-2 quarts of a crop oil concentrate with at least 17 % emulsifiers per acre or a non-ionic surfactant at .25% v/v surfactant to water -- (1 quart per 100 gallons of water) per acre.
** Sand		Apply 5 gallons of oil or 4 gallons of water plus 1 gallon of oil or 1-2 quarts

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shinnery oak	4.2 pints	of a crop oil concentrate with at least 17 % emulsifiers per acre or a non-ionic surfactant at .25% v/v surfactant to water -- (1 quart per 100 gallons of water) per acre.
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\* Deep-rooted perennial weeds may require the higher rate or repeated treatments. \*\* Woody plants and any regrowth may require repeat treatments.

**RESTRICTIONS AND LIMITATIONS FOR CONSERVATION RESERVE AREA PASTURES AND RANGELAND NOT IN AGRICULTURAL PRODUCTION:**

- The preharvest interval (PHI) is 7 days (cut forage for hay).
- Postemergence:  
 Limited to 2 applications per year.  
 Maximum of 4.2 pts (2 lbs. ae) per acre per application.  
 Minimum of 30 days between applications.  
 If grass is to be cut for hay, Agricultural Use Requirements for the Worker Protection Standard are applicable. For program lands, such as Conservation Reserve Program, consult program rules to determine whether grass or hay may be used. The more restrictive requirements of the program rules or this label must be followed.

**PASTURES AND RANGELAND (established grass pastures, rangeland, and perennial grasslands not in agricultural production, excluding Conservation Reserve areas)**

For susceptible annual and biennial broadleaf weeds: Do not apply more than 2.1 pts (1 lb. ae) per acre per application.

For moderately susceptible biennial and perennial broadleaf weeds and difficult to control weeds and woody plants: Do not apply more than 4.2 pts (2 lbs. ae) per acre per application.

For spot treatment: Do not apply more than 4.2 pts (2 lbs. ae) per acre.

**RESTRICTIONS AND LIMITATIONS FOR PASTURES AND RANGELAND:**

- Do not cut forage for hay within 7 days of application.
- Maximum of two applications per year.
- Do not apply more than 4 lbs. ae/acre per year.
- The minimum retreatment interval is 30 days.

**NON-CROP AREAS** - Fencerows, hedgerows, roadsides, ditches, rights-of-way, airfields, railroads, highway and utility rights-of-way, industrial sites, and other non-crop areas

WEEDS	AMOUNT OF 2,4-D LV4 PER ACRE	DIRECTIONS
Annual broadleaf weeds	2 to 4.2 pints	Apply when weeds are young and growing vigorously.
Perennial and biennial broadleaf weeds	2 to 3 pints	Spray perennial weeds when near the bud stage, but not flowering. Do not use on St. Augustine grass. Bentgrass, clover, legumes and dichondra may be injured. Do not apply to newly seeded areas until grass is well established. Deep-rooted perennials may require repeated treatments.
Tansy ragwort and musk thistle		Apply in rosette stage before bolting.
Wild onion and wild garlic		Treat in the early spring and fall when young and actively growing.
Woody plants - Ground application	6 pints	Apply in 20 to 100 gallons of water. For increased effectiveness, add a crop oil concentrate with at least 17 % emulsifiers at 1-2 quarts per acre or a non-ionic surfactant at .25% v/v surfactant to water -- 1 quart per 100 gallons of water. Spray volumes of up to 500 gallons per acre may be needed for control if brush is dense.
Woody plants - Aerial application	4 to 6 pints	For solid stands of susceptible brush, apply in 3 to 12 gallons volume per acre. 2 to 4 quarts of fuel oil may be included in this mixture.

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Spot treatment	4 ounces	Apply in 3 gallons of water, mixing thoroughly and spray to run-off. This high dosage rate may only be used where injury may be tolerated.
<b>RESTRICTIONS AND LIMITATIONS FOR NON-CROP AREAS:</b> <ul style="list-style-type: none"> <li>• Postemergence (annual and perennial weeds): Limited to 2 applications per year. Maximum of 4.2 pts. (2 lbs. ae) per acre per application.</li> <li>• Minimum of 30 days between applications.</li> <li>• Postemergence (woody plants): Limited to 1 application per year. Maximum of 6 pts. (2.85 lbs. ae) per acre per year.</li> <li>• Application to non-cropland areas are not applicable to treatment of commercial timber or other plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes.</li> </ul>		

**TURF, ORNAMENTAL (golf courses, parks, cemeteries, sports fields, turfgrass, and other lawn and grass areas)**

WEEDS	AMOUNT OF 2,4D LV4 PER ACRE	DIRECTIONS
Annual broadleaf weeds	2 pints 2 to 3.15 pints *	Do not apply to newly seeded areas until grass is well established. Where bentgrass predominates, make 2 applications of 1 pint per acre at 3-week intervals. Do not use on susceptible southern grasses such as St. Augustine, bentgrass and dichondra.
Biennial and perennial weeds		

\* Deep-rooted perennials may require repeat applications. Clovers and legumes may be injured by this treatment.

<b>RESTRICTIONS AND LIMITATIONS FOR TURF, ORNAMENTAL (golf courses, parks, cemeteries, sports fields, turfgrass, and other lawn and grass areas):</b> <ul style="list-style-type: none"> <li>• Postemergence: Limited to 2 applications per year. Maximum of 3.15 pts. (1 1/2 lbs. ae) per acre per application. The maximum seasonal rate is 6.3 pts. (3 lbs. ae) per acre, excluding spot treatments.</li> </ul>		
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**TURF GROWN FOR SEED OR SOD - (DO NOT USE IN CALIFORNIA)**

WEEDS	AMOUNT OF 2,4D LV4 PER ACRE	DIRECTIONS
Annual broadleaf weeds Perennial and biennial weeds	1 to 1-1/2 pints * 2 to 3 pints *	Apply to established stands before the seed head comes into the boot stage. <b>Do not spray in boot stage of growth.</b> For seedling grasses, apply in the spring after grass has tillered or has at least 5 leaves, but before boot stage.

\* Use only the low rate on seedling grasses.

<b>RESTRICTIONS AND LIMITATIONS FOR TURF GROWN FOR SEED OR SOD:</b> <ul style="list-style-type: none"> <li>• Limited to 2 applications per year.</li> <li>• Maximum of 3 pts. (1.42 lbs. ae) per acre per application.</li> <li>• Minimum of 21 days between applications.</li> </ul>		
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