

35935-6

02/24/2009

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U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505P)
Ariel Rios Building
1200 Pennsylvania Ave., NW
Washington, D.C. 20460

EPA Reg. Number:

35935-6

Date of Issuance:

FEB 24 2009

NOTICE OF PESTICIDE:

Registration
Reregistration
(under FIFRA, as amended)

Term of Issuance:

Name of Pesticide Product:

Nufarm 2,4-D LV 6

Name and Address of Registrant (include ZIP Code):

Mr. William Mahlborg
NuFarm Limited
PO Box 13439
RTP, NC 27709

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is reregistered in accordance with FIFRA section 4(g)(2)(C) provided you:

- 1. Submit and/or cite all data required for registration/reregistration review of your product when the Agency requires all registrants of similar products to submit data.
2. A stamped copy of your labeling is enclosed for your records. Submit one copy of the revised final printed label for the record before you release the product for shipment. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.
3. Make the following label revisions:
a. Per the Acute Toxicity Review, make the following label revisions:
1) Based on toxicity ranking, the First Aid statements should be placed on the label with the "If on Skin or Clothing" statement immediately following the "If Swallowed" statement.
2) The Hazards to Humans and Domestic Animals must be revised to include the statement "Causes moderate eye irritation."

Continued on Page 2

Signature of Approving Official:

Joanne I. Miller
Product Manager 23
Herbicide Branch
Registration Division (7505P)

Handwritten signature of Joanne I. Miller

Date:

FEB 24 2009

b. Per the 2,4-D RED, make the following label revisions:

3) The PPE section must be revised as follows:

-Revise the statement "Some materials that are chemical-resistant to this product are listed below" to include specific chemical-resistant material from Selection Category E in place of "listed below."

-Delete the text "when applying postharvest dips ... exposed to the concentrate" from the chemical-resistant glove statement, since the acute toxicity review requires gloves for all handlers.

-Add the statement "See engineering controls for additional requirements."

4) The following Engineering Control text must be added to the label:

"Pilots must use an enclosed cockpit that meets the requirements listed in the WPS for agricultural pesticides [40CFR 170.240(d)(6)]"

In addition, the mechanical transfer text in the Engineering Controls section (For containers of 5 gallons ...) is not required for 2,4-D.

5) The first two sentences of the Environmental Hazards text currently on the label must be revised to read as follows:

"This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark."

6) Delete the following text from the Agricultural Use Requirements box:

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

7) A Non-Agricultural Use Requirements box must be added to label with the following entry restriction text:

"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."

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- 8) With the exception of drift-related text appearing in the Environmental Hazards (“Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas”) and General Precautions and Restrictions (“Do not apply this product in a way that will contact workers or other persons, either directly or through drift”), all drift text appearing on the label must be placed together and be located below the following required text. Any conflicting text must be deleted from the label. Spray drift text must be added to the label and should read as follows:

“Spray Drift Management

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

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 apply 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, nontarget 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.

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(Spray Drift Mang. Cont.)

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.

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.

For aerial application:

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.

For ground boom application:

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

- 9) Under the use precautions for the **Small Grains** section, revise the preharvest rate of $\frac{3}{4}$ pints per acre per application to read $\frac{2}{3}$ pints per acre per application. Also, add the statement “The preharvest interval (PHI) is 14 days.”
- 10) Under the use precautions for **Corn** section, revise the preplant or preemergence rate of 1.5 pints per acre per application to read 1.4 pints per acre per application, and revise the preharvest rate of $\frac{3}{4}$ pints per acre per application to read $\frac{2}{3}$ pints per acre per application. In addition, specify “corn, field and pop” each time corn is mentioned on the label.
- 11) Under the use precautions for the **Sorghum** section, revise the preharvest rate of $\frac{3}{4}$ pints per acre per application to read $\frac{2}{3}$ pints per acre per application.
- 12) Under the **Recommended Rates of Product Per Acre** table, revise the preplant **Corn** rate of 1- $\frac{1}{3}$ quarts to read 1- $\frac{1}{3}$ pints, and revise the postemergence corn rate of $\frac{2}{3}$ to 1- $\frac{1}{3}$ pints to read “ $\frac{2}{3}$ pints.” Also under this table, revise all **Small Grains** rates in excess of $\frac{2}{3}$ pints per acre to indicate “postemergence only.”

- 13) Under the use precautions for **Turf** section, revise the maximum rates of 2.25 pints and 4.5 pints to read 2.1 pints and 4.2 pints, respectively. Also, specifically for **Grass Seed Crops**, add the following restrictions:
“Limited to 2 applications per year.
Maximum of 2.8 pints product per acre per application.
Minimum of 21 days between applications.”
- 14) Under the use precautions for **Fallow Land** section, revise the statement “Plant only labeled crops within 29 days following application” to read “Only labeled crops can be planted within 30 days of application.” Also, revise the 3 pints per acre per application rate to read “Maximum of 2-3/4 pints per acre per application.” In addition, on page 5 of the label, revise the maximum rates in postharvest corn stubble and grain stubble (control of wild garlic) to concur with the maximum rate for Fallow Land (2-3/4 pints per acre per application).
- 15) Under the use precautions for **Pasture and Rangeland** section, revise the 1.5 pints per acre and the 3.0 pints per acre rates to read 1.4 and 2.8 pints per acre, respectively.
- 16) Since the **Wild Garlic and Wild Onion** control uses on the label are in (postharvest) fallow land, revise the rates in this section to concur with the use precautions for fallow land.
- 17) Under the **Forest Management** use precautions (injection), revise “Maximum of 2 ml or 5-2/3 pints of formulation per injection site” to read “Maximum of 1.4 ml product per injection site.”

c. **Other Revisions**

- 18) Add the following statement to the labeling:

“Use of this product in certain portions of California, Oregon and Washington is subject to the January 22, 2004 Order for injunctive relief in Washington Toxics Coalition, et al. v. EPA, C01-0132C, (W.D. WA). For further information, please refer to EPA Web Site:
<http://www.epa.gov/espp>.”

A stamped copy of your labeling is enclosed for your records. Submit one (1) copy of the revised final printed label for the record before you release the product for shipment. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

Enclosure

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ACCEPTED
with COMMENTS
In EPA Letter Dated:

FEB 24 2019
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.

35935-6

2,4-D LV6

Herbicide

Low Volatile Herbicide

FOR CONTROL OF SUSCEPTIBLE BROADLEAF WEEDS IN CEREAL GRAINS, CORN, SORGHUM,
NON-CROP AREAS, PREPLANT SOYBEANS AND FORESTRY.

ACTIVE INGREDIENT:

Isooctyl (2-ethylhexyl) Ester of 2,4-Dichlorophenoxyacetic Acid* 87.3%

OTHER INGREDIENTS:

12.7%

TOTAL: 100.0%

Contains Petroleum Distillates

Isomer Specific AOAC Method, Equivalent to:

*2,4-Dichlorophenoxyacetic Acid 57.9%, 5.5 lbs./gal.

**KEEP OUT OF REACH OF CHILDREN
CAUTION - PRECAUCION**

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.)

SEE INSIDE BOOKLET FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300
For Medical Emergencies Only, Call (877) 325-1840

NOTE: Spanish language is optional

EPA REG. NO. 35935-6
EPA EST. NO. 228-IL-1

MANUFACTURED FOR
NUFARM LIMITED
P.O. Box 13439
RTP, NC 27709



NET CONTENTS: 2.5 GALLONS (9.46L)

035935-00006.20090105.EPA.24d.Pending

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION - PRECAUCION**

Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

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 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,
- shoes and socks, plus
- chemical-resistant gloves, when applying postharvest dips or sprays to citrus, 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 applying postharvest dips or sprays to citrus, mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate.

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.

For containers over 1 gallon but less than 5 gallons: Mixers and loaders who do not use a closed mechanical system (probe and pump) to transfer the contents of this container must wear coveralls or a chemical-resistant apron in addition to the other required PPE.

Engineering Control Statements:

When handlers use 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.

For containers of 5 gallons or more: A closed mechanical transfer system (probe and pump) must be used for transferring the contents of the 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)] the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS	
Users Should:	
<ul style="list-style-type: none"> • 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. If pesticide gets on skin, wash immediately with soap and water. • 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 SWALLOWED	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
IF IN EYES	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 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.
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
IF INHALED	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-325-1840 for emergency medical treatment information.	

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ENVIRONMENTAL HAZARDS

This pesticide 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 the mean high water mark except as noted on appropriate labels. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash waters 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.

PHYSICAL AND CHEMICAL HAZARDS

Do not use or store near heat or open flame.

AGRICULTURAL CHEMICAL

Do not ship or store with foods, 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.

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

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 intervals. 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 48 hours.

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 made of any water-proof material,
- shoes plus socks.

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

GENERAL INFORMATION

Performance of this product may be affected by local conditions, crop varieties, and application method. User should consult local Extension Service, Agricultural Experiment, or University Weed Specialists, and State regulatory agencies for recommendations in your area.

Best results are obtained when product is applied to your succulent weeds that are actively growing. The lower recommended rates will be satisfactory on susceptible annual weeds. For perennial weeds and conditions, such as the very dry areas of the Western states, where control is difficult, the higher recommended rate should be used.

When product is used for weed control in crops, the growth stage of the crop must be considered. Some plants and weeds, especially woody varieties, are difficult to control and may require repeat applications.

INJURY TO CROPS FROM THIS HERBICIDE MAY OCCUR. IF YOU ARE NOT PREPARED TO ACCEPT SOME DEGREE OF CROP INJURY, DO NOT USE THIS PRODUCT. Product should not be used in or near greenhouses.

Application rates should be 1 to 5 gallons of total spray by air of 5 to 25 gallons by ground equipment unless otherwise directed. In either case, use the same amount of 2,4-D recommended per acre. On crops, use of the product with oil, surfactants, or other adjuvants may reduce selectivity and cause crop damage.

Aerial applications should be used only when there is no danger of drift to susceptible crops. Many states have regulations concerning aerial application of 2,4-D formulations. Consult local regulatory authorities before making applications. Although this product is a low volatile formulation, at temperatures above 90° F vapors may damage susceptible crops growing nearby.

Because coarse sprays are less likely to drift than fine, do not use equipment (such as hollow cone small orifice nozzles) or conditions (such as high pressure) that produce such sprays.

Product should not be allowed to come into contact with desirable, susceptible plants such as beans, cotton, fruit trees, grapes, legumes, ornamentals, peas, tomatoes, and other vegetables.

Product should not be used in greenhouses. Do not apply when wind is blowing towards susceptible crops. Excessive amounts of this product in the soil may temporarily inhibit seed germination and all plant growth.

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If stored below freezing, efficacy is not affected if product is warmed to 40°F and agitated before using.

Spray equipment used to apply 2,4-D should not be used for any other purpose until thoroughly cleaned with a suitable chemical cleaner.

Spray Preparation: Add the recommended amount of product to approximately 1/2 the volume of water to be used for spraying. Agitate well, then add the remainder of the water. Continue agitation during application until spray tank is empty.

Use in Liquid Nitrogen Fertilizer: Product may be combined with liquid nitrogen fertilizer for foliar application in corn, grass, pastures, or small grains in one operation. Use product according to directions on this label for those crops. Use liquid nitrogen fertilizer at rates recommended by supplier or Extension Service Specialist. Mix the product and fertilizer according to the following instructions. Fill the spray tank approximately 1/2 full with the liquid nitrogen fertilizer. Add the product while agitating the tank. Add the remainder of the fertilizer while continuing to agitate. Apply immediately, maintaining agitation during application until tank is empty. DO NOT APPLY DURING COLD (NEAR FREEZING) WEATHER. Spray mixture must be used immediately and may not be stored.

Note: If good, continuous agitation is not maintained, separation of the spray mixture and/or clogging of the nozzles is likely to occur.

WHERE TO USE

This product is used to control susceptible broadleaf weeds in cereal crops, corn, sorghum, soybean plant burndown, non-crop areas, rangeland, pastures and forestry.

WEEDS CONTROLLED

When used properly, product will kill or control the following in addition to many other noxious plants susceptible to 2,4-D:

- | | | |
|---------------------------------------|----------------------|---------------------|
| Alligatorweed | Dock | Purslane |
| Artichoke | Dogfennel | Rush |
| Bindweed (hedge, field, and European) | Elderberry | Russian thistle |
| Bitter wintercress | Giant ragweed | Sagebrush |
| Boxelder | Goldenrod | Shepherdspurse |
| Buckhorn | Ground ivy | Sowthistle |
| Bull thistle | Hemp | Stinkweed |
| Bulrush | Hoary cress | Sumac |
| Burdock | Honeysuckle | Sunflower |
| Bur ragweed | Indigo | Swinecress |
| Buttercup | Ironweed | Velvetleaf |
| Canada thistle | Jimson weed | Vetch - narrow leaf |
| Catnip | Lambsquarters | Virginia creeper |
| Chickweed | Locoweed | Wild lettuce |
| Chicory | Mexican Weed | Wild radish |
| Cocklebur | Morningglory | Willow |
| Coffeebean | Mustard | |
| Common ragweed | Pennywort | |
| Creeping jenny | Pigweed (non-hybrid) | |
| Cudweed | Plantain | |
| Curly dock | Pokeweed | |
| Curly indigo | Povertyweed | |
| Cutleaf evening primrose | Puncturevine | |
| Dandelion | | |

Less Susceptible Weeds

- | | |
|------------------|-------------|
| Kochia | Smartweed |
| Hairy vetch | Wild garlic |
| Pigweed (hybrid) | Wild onion |
| Poison ivy | |

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CROPS

Small Grains (Barley, Oats, Wheat, Rye) Not Underseeded With a Legume: See table for recommended use rates. Spray when weeds are small after grain begins tillering but before boot stage (usually 4 to 8 inches tall). Do not apply before tiller stage nor from early boot through milk stage. To control large weeds that will interfere with harvest or to suppress perennial weeds, pre-harvest treatment can be applied when the grain is in the dough stage. Best results will be obtained when soil moisture is adequate for plant growth and weeds are growing well.

Spring Planted Oats: Use 1/3 pint per acre in sufficient water to give good coverage. Apply after the fully tillered stage, except during the boot to dough stage.

Fall Planted Oats: Apply 1/6 to 5/6 pints per acre after full tillering but before early boot stage. Some difficult weeds may require the higher rates of 1/2 to 5/6 pints per acre for maximum control, but injury may result. Do not spray during or immediately following cold weather.

Note: Oats are less tolerant to 2,4-D than wheat or barley and more likely to be injured. Do not forage or graze treated fields within 14 days after treatment with 2,4-D. Do not feed treated straw to livestock.

Wheat and Barley: Control of Wild Garlic and Wild Onion: For improved control of difficult weeds including wild garlic and wild onion, apply 2/3 to 1-1/3 pints of product per acre. Since these rates may injure the crop, do not use unless possible crop damage is acceptable. For the higher rates on spring wheat and barley, consult your local State Agricultural Experiment Station or Extension Service Weed Specialist for recommendations or suggestions to fit local conditions.

Control of Wild Garlic in Stubble Grain Fields: Following the harvest of small grains, wild garlic often produces new fall growth. This should be sprayed with 1-1/3 to 2 quarts of product per acre. This is a useful practice as one part of a wild garlic control program. Do not forage for 14 days following applications. Do not plant any crop for three months after treatment.

Corn: See table for recommended use rates.

Preplant: To control emerged broadleaf weed seedlings or existing cover crops prior to planting corn, apply 7 to 14 days before planting. Do not use on light, sandy soil, or where soil moisture is inadequate for normal weed growth. Use high rate for control of less susceptible weeds or cover crops such as alfalfa.

Preemergence: Apply product to emerged weeds from 3 to 5 days after planting but before corn emerges. Do not use on light, sandy soil. Use the higher rates on heavy soils. Plant corn as deep as practical. Product will not control weeds which have not emerged.

Postemergence: Best results are usually obtained when weeds are small and corn is 4 to 18 inches tall. When corn is over 8 inches tall, use drop nozzles to keep spray off corn foliage as much as possible. Do not apply from tasseling to dough stage. If corn is growing rapidly and temperature and soil moisture are high, use 1/3 pint per acre to reduce possibility of crop damage. Delay cultivation for 8 to 10 days to prevent stalk breakage due to temporary brittleness caused by 2,4-D. Application rates of up to 2/3 pint per acre may be used to control some hard to control weeds. However, the possibility of injury to the corn is increased. Since the tolerance to 2,4-D of individual hybrids varies, consult your seed supplier, local Extension Service, Agricultural Experiment Station, or University Weed Specialist for information.

Pre-harvest: After the hard dough or denting stage, apply 2/3 pints of product per acre by air or ground equipment to suppress perennial weeds, decrease weed seed production, and control tall weeds such as bindweed, cocklebur, dogbane, jimsonweed, ragweed, sunflower, velvetleaf, and vines that interfere with harvesting. Do not forage or feed corn fodder to livestock for 7 days following application.

Post-harvest: Wild Garlic: Following the harvest of corn, wild garlic often produces new fall growth. This should be sprayed with 1-1/3 to 2 quarts of product per acre. This is a useful practice as one part of a wild garlic control program. Do not forage for 7 days following application. Do not plant any crop for three months after treatment.

Use Precautions for Small Grains

Postemergence:

Limited to one postemergence application per crop cycle. Maximum of 1.75 pints of product /acre per application.

Preharvest:

Limited to one preharvest application per crop cycle.
Maximum of 3/4 pints of product per acre per application.
Limited to 2.5 pints of product per acre per crop cycle.

Sorghum (Milo): See table for recommended rate. Apply to sorghum when crop is 4 to 12 inches high with secondary roots well established. Use drop nozzles when crop is over 10 inches high. Do not apply from flowering to dough stage. Rates of up to 2/3 pint per acre may be used to control some hard to control weeds. However, the chance of crop injury is increased with the higher rates. Do not use with oil. Use lower rate if conditions of high temperatures and high soil moisture exist.

Use Precautions for 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 one application per crop cycle.
Maximum of 3/4 pints of product /acre per application.

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RECOMMENDED RATES OF PRODUCT PER ACRE*

CROP (See Detailed Instructions Above)	RATE (Average Conditions)	RATE (Dry Conditions As In Western States)**
Small Grains (Wheat, Barley, Rye): Annual Weeds Perennial Weeds Pre-harvest	1/3 to 2/3 pint 2/3 pint 2/3 pint	2/3 to 1-1/3 pints 5/6 to 1-1/3 pints
Oats: Spring Fall	1/3 pint 1/3 to 1/2 pint	
Corn: Preplant Preemergence Postemergence Pre-harvest	2/3 to 1-1/3 pints 2/3 to 1-1/3 quarts 1/3 pint 2/3 to 1-1/3 pints	1/3 to 1/2 pint
Sorghum (Milo): Postemergence	1/3 pint	1/3 to 1/2 pint
Soybeans: Preplant	2/3 to 1-1/3 pints	

*If band treatment is used, base the dosage rate on the actual area sprayed.

**Arizona, Idaho, Montana, Nevada, Oregon, Utah, Washington, Wyoming.

Use Precautions for Corn

Do not use treated crop as fodder for 7 days following application.

The preharvest interval (PHI) is 7 days.

Maximum of 4.25 pints of product /acre per crop cycle.

Preplant or preemergence:

Limited to one preplant or preemergence application per crop cycle.

Maximum of 1.5 pints of product per acre per application.

Postemergence:

Limited to one postemergence application per crop cycle.

Maximum of 3/4 pint of product per acre per application.

Preharvest:

Limited to one preharvest application per crop cycle.

Maximum of 1.25 pints of product per acre per application.

Preplant Burndown in Soybeans: This product may be used for the foliar burndown control of susceptible annual and perennial broadleaf weeds and certain broadleaf cover crops prior to reduced till or no-till planting of soybeans. Make only preplant applications to emerged weeds prior to the planting of the soybeans.

Product may be tank mixed with liquid fertilizers or crop oils and surfactants to increase effectiveness on certain weeds. Be certain to confirm compatibility of such products with this herbicide prior to tank mixing.

Follow instructions and precautions on all labels of products to be tank mixed.

Make the application by either air or ground using a total spray volume sufficient for uniform coverage. Use 2 or more gallons total spray volume by air or 10 or more total gallons by ground.

Make application at rate and timing listed in table below:

Amount of Product Per Acre, Broadcast	Application Time Prior to Planting Soybeans
2/3 pint	At least 7 days Limited to 2 preplant applications per crop cycle
1-1/3 pints	At least 15 days Limited to 1 application per crop cycle.

Use Precautions: Do not use on sandy soils with less than 1% organic matter. Plant soybean seeds as deep as possible, but not less than 1 inch. Use of a rib-type presser wheel is not recommended. Adjust planter to ensure adequate coverage of planted seed.

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Use Restrictions: In the event of loss of crop, do not replant with crops other than those cleared for use with 2,4-D. Do not allow livestock to graze or feed hay, forage or fodder from treated fields. Do not feed or allow livestock to graze treated cover crops.

Notice: Use of this product as indicated could cause severe crop injury including stand loss and/or reduced yield. Do not use product as described unless you are prepared to accept such injury.

TURF USES

Ornamental Turf, such as Lawns, Golf Courses, Parks, and Cemeteries: Use 2/3 to 2 pints of product in enough water to give good coverage to one acre on established stands of perennial grasses, depending on type of weeds and stage of growth. Do not use on creeping grasses such as bent except for spot spraying. Newly seeded turf should not be treated until after the second mowing, and the lower dosage rate should be used.

When using this product on ornamental turf, wear long-sleeved shirt, long pants, socks, shoes and chemical-resistant gloves. After using this product, rinse gloves before removing, remove clothing and launder separately before reuse, and promptly and thoroughly wash hands and exposed skin with soap and water. Remove saturated clothing as soon as possible and shower.

Grass Seed Crops: Apply 2/3 to 2-2/3 pints of product per acre in the spring or fall to control broadleaf weeds in grass being grown for seed. Do not apply from early boot to milk stage. Spray seedling grass only after the five-leaf stage, using 1/2 to 2/3 pint per acre to control small seedling weeds. After the grass is well established, higher rates of up to 2-2/3 pints per acre can be used to control hard to control annual or perennial weeds. For best results, apply when soil moisture is adequate for good growth. Do not use on Bent unless injury can be tolerated. Do not graze dairy animals nor cut forage for hay within 7 days of application.

Use Precautions for Turf

Postemergence:

Limited to 2 applications per year.

Maximum of 2.25 pints of product per acre per application.

The maximum seasonal rate is 4.5 pints of product per acre, excluding spot treatments.

NON-CROP USES

Fallow Land: On established perennial species such as Canada thistle and field bindweed, apply up to 4 pints of product per acre. For annual broadleaf weeds, apply 1-1/3 to 2-2/3 pints per acre.

Use Precautions for Fallow Land

Plant only labeled crops within 29 days following application

Limited to 2 applications per year.

Maximum of 3 pints of product per acre per application.

Minimum of 30 days between applications.

Established Pastures and Rangelands: Use 2/3 to 2-2/3 pints of product in sufficient water to give good coverage to one acre depending on type of weeds and stage of growth. Do not apply more than 2-2/3 pints of product per acre, per application, per site. Use only on established stands of perennial grasses. Do not graze dairy cattle within 7 days of application. Remove meat animals from treated areas 3 days prior to slaughter.

Use Precautions Established Pastures and Rangelands

Do not cut forage for hay within 7 days of application.

Postemergence:

For susceptible annual and biennial broadleaf weeds: Use 1.5 pints of product per acre per application.

For moderately susceptible biennial and perennial broadleaf weeds: Use 1.5 to 3.0 pints of product per acre per application.

For difficult to control weeds and woody plants: Use 3 pints of product per acre per application.

Spot treatment: Use pints of product per acre.

Maximum of two applications per year.

Maximum of 5 2/3 pints of product per acre per year.

Minimum of 30 days between applications.

If grass is to be cut for hay, Agricultural Use Requirements for the Worker Protection Standard are applicable.

Wild Garlic and Wild Onion Control: Apply 2-2/3 to 4 pints of product per acre making three applications, fall-spring-fall or spring-fall-spring, starting in the late fall or early spring. Do not graze dairy animals nor cut forage for hay within 7 days of application.

General Weed Control: Airfields, Roadsides, Vacant Lots, Fence Rows, Industrial Sites and Similar Areas: Use 1-1/3 pints of product per acre. Usually 2-2/3 pints per acre will give adequate control. Do not use on herbaceous ground covers or creeping grass such as bent. Legumes will usually be damaged or killed. Deep-rooted perennials may require repeat applications. Do not use on freshly seeded turf until grass is well established. Delay reseeding for 30 days.

Use Precautions for General Weed Control

Postemergence (annual and perennial weeds):

Limited to 2 applications per year.

Maximum of 2.75 pints of product per acre per application.

Minimum of 30 days between applications.

Woody Plant Control: To control woody plants susceptible to 2,4-D such as alder, buckbrush, elderberry, sumac and willow on noncrop areas, use 1-1/3 to 2 quarts of product per acre in 100 gallons of water. Wet all parts of the plants thoroughly, including stem and foliage, to the point of runoff. Higher volumes of up to 400 gallons per acre are necessary where the brush is very dense and over 6 to 8 feet high. Applications are more effective when made on actively growing plants. Treatment should not be made during time of severe drought or in early fall when leaves lose their green color. Hard to control species may require retreatment next season.

Use Precautions for Woody Plants

Postemergence (woody plants):

Limited to 1 application per year.

Maximum of 5 2/3 pints of product per acre per year.

Applications 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.

USES IN FOREST MANAGEMENT

Conifer Release: For control of alder, apply 1 to 1-1/3 quarts of product per acre in 8 to 25 gallons of water, and apply as a foliage spray between mid-May and mid-June.

For the control of susceptible brush species such as *Ceanothus* spp., chinquapin, madrone, manzanita, oak and tanoak, apply 2 quarts of product per acre just before or during budbreak of the conifer. To increase performance, add 2 to 4 quarts of diesel, fuel oil, kerosene, or a suitable approved agricultural surfactant at recommended label rate.

After northern conifers, jack pine, red pine, black spruce and white spruce cease growth and "harden off" in late summer, a spray of 1 to 2 quarts of product in 8 to 25 gallons of water per acre may be applied by air to control certain competing hardwood species such as alder, aspen, birch, hazel and willow. Since this treatment may cause occasional conifer injury, do not use if such injury cannot be tolerated. Consult your regional or extension forester or state herbicide specialist for recommendations to fit local conditions.

Dormant Application: (Other than Pine): For the control of susceptible deciduous brush species such as alder, cascara, cherry, poplar and service berry, apply up to 2 quarts of product per acre in sufficient diesel, fuel oil or kerosene for good coverage. Application may be made by ground or air and should be made before conifer bud break.

(Pine Only): Make application while pine buds are still dormant. Apply 1-1/3 quarts of product per acre in sufficient water for good coverage by air or ground equipment. Do not use this application unless some pine injury is acceptable. Use of diesel, kerosene, or other oil, or addition of surfactants to spray mix may cause unacceptable pine injury.

Herbaceous Weed Control: To control over-wintering susceptible weeds such as false dandelion, klamath weed, plantain, and tansy ragwort, apply 2/3 to 2 quarts of product per acre in sufficient water for good coverage. Make application at rates and timing indicated above if pines are present.

For control of hazel brush and similar species in the Lake States area, apply 1-1/3 quarts of product per acre in 8 to 25 gallons of water, when new shoot growth of Hazel is complete.

Site Preparation: As Budbreak Spray: For control of alder prior to planting seedlings, apply 1-1/3 to 2-2/3 quarts of product per acre in 8 to 25 gallons of water after alder budbreak but before foliage is 1/4 full size. Do not apply more than 2-2/3 quarts of product per acre, per application, per site. Application may be made by air or ground. If desired, diesel, fuel oil or kerosene may be substituted for water as diluent. **As Foliage Spray:** For control of alder prior to planting seedlings, apply 1-1/3 quarts of product per acre in 8 to 25 gallons of water after most alder leaves are full size. To increase penetration, 2 to 4 quarts per acre of diesel, fuel oil, kerosene, or a suitable approved agricultural surfactant at recommended label rates may be added to the spray mixture.

Forest Management Use Precautions

Broadcast application:

Limited to 1 broadcast application per year.

Maximum of 5-2/3 pints of product per acre per broadcast application.

Basal spray, Cut Surface - Stumps, and Frill:

Limit of one basal spray or cut surface application per year.

Maximum of 11.33 pints of product per 100 gallons of spray solution.

Injection:

Limit to one injection application per year.

Maximum of 2 ml or 5-2/3 pints of formulation per injection site.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Open dumping is prohibited. Do not store this product near fertilizers, seeds, insecticides, or fungicides. Do not store near heat or open flame. Re-close all partially used containers by thoroughly tightening screw cap. Absorb any spill with a suitable clay absorbent and dispose of as indicated under "Pesticide Disposal". For safety and prevention of unauthorized use, all pesticides should be stored in locked facilities. To prevent accidental misuse, different pesticides should be stored in separate areas with enough distance between to provide clear identification. Opened, partially used pesticides should be stored in original labeled containers when possible. When transfer to another container is necessary because of leakage or damage, carefully mark and identify contents of the new container.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law and may contaminate ground water. 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:

[Nonrefillable Containers 5 Gallons or Less:] Nonrefillable container. Do not reuse or refill this container. Triple 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. 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. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

[Nonrefillable Containers Larger than 5 Gallons:] Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. 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. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. 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.

[Refillable Container Larger than 5 Gallons:] 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.

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