



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:
1386-43

Date of Issuance:
JUN 29 2010

NOTICE OF PESTICIDE:
 Registration
 Reregistration
 (under FIFRA, as amended)

Term of Issuance: **Conditional**

Name of Pesticide Product:
2,4-D Amine Weed Killer

Name and Address of Registrant (include ZIP Code):

Universal Cooperatives, Inc.
 1300 Corporate Center Curve
 Eagan, MI 55121

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. The term "chemigation" should be deleted from the first sentence under the SPRAY DRIFT MANAGEMENT header on page 6 for the statement to read "A variety of factors including weather conditions (e.g. wind direction, wind speed, temperature, relative humidity) and method of application (e.g. ground, aerial, airblast) can influence pesticide drift."
3. Per the Reregistration Eligibility Document (RED), the following information must appear in the application instructions for "Corn (sweet)" on page 7. This text must be placed under the Corn (Sweet) header.

"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 1.5 lbs ae/acre per crop cycle."

SEE NEXT PAGE FOR ADDITIONAL COMMENTS

Signature of Approving Official:
 Kathryn V. Montague
 Product Manager 23
 Herbicide Branch
 Registration Division (7505P)

Date:

JUN 29 2010

- 4. Per the RED, the use rate of 3 pints (1.425 lbs ae) for small grains postemergence in the chart on page 9 under Special Situations must be reduced to comply with the allowable rate of 1.25 lbs ae per acre for postemergence use. Note: This change was required in the February 1, 2010 letter regarding 2,4-D RED compliance.
- 5. The handling statement in the Storage and Disposal box on page 15 for refillable containers larger than 5 gallons must have a container disposal statement. Add the text in bold to the existing statement.

Refillable containers 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. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. **Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.**

The alternate handling statement for refillable containers larger than 5 gallons must read as follows:

Refillable Container: Refill the container with pesticide only. Do not reuse this container for any other purpose. Close all openings and replace all caps. Contact Universal Cooperatives, Inc.'s Customer Service Department at 1-651-239-1000 to arrange for return of the empty refillable container or rinse and either recycle or dispose of the container as follows: 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. 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. Once the container is rinsed, then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

- 6. NOTE: While the Agency is not requesting additional data at this time, you must maintain data in your files supporting marketing and/or efficacy claims made on the product label. If no substantiating data are available, you must delete the claim from the product label.

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Reregistration
EPA Registration Number: 1386-43
Product Name: 2,4-D Amine Weed Killer
Decision #: 432740

7. NOTE: Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

A stamped copy of your labeling is enclosed for your records. You must submit one (1) copy of the final printed label before you release the product for shipment. Products shipped after 12 months from the date of this Notice or the next printing of the label whichever occurs first, must bear the new revised label. 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.

2,4-D AMINE WEED KILLER

**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 this label, find someone to explain it to you in detail.)

REFER TO INSIDE OF LABEL BOOKLET FOR ADDITIONAL PRECAUTIONARY STATEMENTS, FIRST AID STATEMENT, WORKER PROTECTION STATEMENTS, DIRECTIONS FOR USE, STORAGE AND DISPOSAL INSTRUCTIONS, AND WARRANTY INFORMATION.

ACTIVE INGREDIENT:

Dimethylamine salt of
2,4-dichlorophenoxyacetic acid*

INERT INGREDIENTS

Total

47.2%
52.8%
100.0%

* Equivalent to 39.2% 2,4-dichlorophenoxyacetic acid.
Contains 3.8 pounds 2,4-D Acid equivalent per gallon.
* Isomer Specific by AOAC Method No. 6.D01-5.

EPA Reg. No. 1386-43
EPA Est. No. 1386-OH-1

with COMMENTS

JUN 29 2010

In EPA Letter D-111

JUN 29 2010

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 1386-43



1386-43

**Net Contents:
2 1/2 Gallons**

Distributed By:
Universal Cooperatives, Inc.
1300 Corporate Center Curve, Eagan, MN 55121

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER

Corrosive. Causes irreversible eye damage. Harmful if absorbed through skin. Harmful if swallowed or inhaled. Do not get in eyes, on skin, or on clothing. Avoid breathing spray mist.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are polyethylene or polyvinyl chloride. If you want more options, follow the instructions for category A 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
- Goggles or face shield
- Chemical-resistant gloves when applying with any hand-held 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

See "Engineering Controls" for additional requirements.

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. After each day of use, clothing or PPE must not be reused until it has been cleaned.

Engineering Controls Statements: 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.

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

USER SAFETY RECOMMENDATIONS

- Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Users should 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.
- Users should 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:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
IF SWALLOWED:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have a person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> • 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:	<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 mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

HOTLINE NUMBER

For 24 Hour Medical Emergency Assistance (Human or Animal) call 1-800-308-1241 or for Chemical Emergency Assistance (Spill, Leak, Fire or Accident) call CHEMTREC at 1-800-424-9300.

ENVIRONMENTAL HAZARDS

AQUATIC USES

This product is toxic to fish and aquatic invertebrates. Drift or runoff may adversely affect aquatic invertebrates and nontarget plants. Do not apply directly to water except as specified on this label. Do not contaminate water when disposing of equipment washwaters.

Fish breathe dissolved oxygen in the water and decaying weeds also use oxygen. When treating continuous, dense weed masses, it may be appropriate to treat only part of the infestation at a time. For example, apply the product in lanes separated by untreated strips that can be treated after vegetation in treated lanes has disintegrated. During the growing season, weeds decompose in a 2- to 3-week period following treatment. Begin treatment along the shore and proceed outwards in bands to allow fish to move into untreated areas. Waters having limited and less dense weed infestations may not require partial treatments.

NON-AQUATIC USES

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 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. Do not contaminate water intended for irrigation or domestic purposes [(except as specifically directed in this label) especially in areas where grapes, cotton, tomatoes, or other susceptible plants are grown. Do not treat irrigation ditches in areas where water will be used to overhead (sprinkler) irrigate susceptible crops especially grapes, tomatoes, tobacco, and cotton.]. Do not apply when weather conditions favor drift from target area.

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 or 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.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. 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. Do not apply this product in a way that will contact any person or pet, either directly or through drift. Keep people and pets out of the area during 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 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
- Protective eyewear

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 treated areas without protective clothing until sprays have dried.

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

DO NOT APPLY THIS PRODUCT THROUGH ANY TYPE OF IRRIGATION SYSTEM.

2,4-D Amine Weed Killer will kill or control the following as well as many other noxious plants susceptible to 2,4-D:

* Alfalfa	Chickweed	Henbit	* Peppergrass	Stinkweed
Arrowhead	Chicory	* Hoary Cress	Pepperweed	Sumac
Artichoke	* Clover, Red	Honeysuckle	(except perennial)	Sunflower
* Beggarticks	Cocklebur, Common	Horseweed or Marestalk	Pigweed	Velvetleaf
* Bindweed (Hedge, Field & European)	Coffeebean	Indigo	Plantain	* Vervains
Bitter Wintercress	Coffeeweed	* Ironweed	Poison Ivy	Vetch, Hairy
Bittercress, Smallflowered	Common Mullein	Jimsonweed	Pokeweed	Virginia Creeper
Boxelder	Creeping Jenny	* Knotweed	Povertyweed	Waterhyacinth
Buckhorn	Curly Indigo	Lambsquarters, Common	Prickly Lettuce	Waterlily
Bull Thistle	Dandelion	Locoweed	Puncturevine	Water milfoil
Bullnettle	* Dock	* Mallow	Purslane	Waterprimrose
Bulrush	* Dogbane	Marshelder	Ragweed	Wild Carrot
Burdock	Duckweed	Mexicanweed	Rush	* Wild Garlic
Bur Ragweed	Elderberry	Morningglory, Annual	* Russian Thistle	Wild Lettuce
Buttercup	Evening Primrose, Cutleaf	* Muskthistle	Sagebrush	* Wild Onion
* Canada Thistle	* Goldenrod	Mustard	Sheep Sorrel	Wild Parsnips
Catnip	* Ground Ivy	Parrotfeather	Shepherdspurse	Wild Radish
	Hemp	Pennycress, Field	* Smartweed	Willow
		Pennywort	Sowthistle	Witchweed

*These species may require repeated applications and/or use of the higher rate directed on this product label even under ideal conditions for application.

This product should be used as a water diluted spray, or may be mixed with liquid nitrogen fertilizer (see below), for selective control of susceptible weeds growing in small grain crops, corn, sorghum, lawns and ornamental turf, and for non-selective control of certain weeds not in growing crops, such as roadsides and fence rows. Do not use in or near a greenhouse.

Apply when the weeds are young and are in a succulent, rapidly growing condition, since best results are obtained when soil moisture and temperature conditions are favorable for rapid growth of weed plants. Spray applied when weeds have stopped growing rapidly, or when they are affected by a lack of moisture in the soil, are often not effective against many kinds of weeds. Spray perennial weeds after they are completely emerged, but before the bloom stage. Kill of weeds may not be evident for 2 to 3 weeks after spraying. Retreatment of areas infested with perennial weeds may be necessary.

Considerable caution must be exercised in using 2,4-D sprays to avoid injury to crops and desirable plants. Do not apply directly to vegetables, flowers, grapes, fruit trees, ornamentals, cotton or other desirable plants which are sensitive to 2,4-D and do not permit spray mist to drift onto them since even minute quantities may cause severe injury during the growing or dormant periods. Coarse sprays are less likely to drift. Do not use on creeping grasses, such as bent. Most legumes, including white clover, are usually damaged and, under some conditions, killed. Crops contacted by 2,4-D Amine Weed Killer sprays or spray drift may be killed or suffer significant stand loss with extensive quality and yield reduction. Excessive amount of 2,4-D dichlorophenoxy-acetic acid in the soil may temporarily inhibit seed germination or plant growth.

Aerial, ground rig, and hand sprayer application 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 such applications.

PREPARATION OF SPRAY AND APPLICATION: Directed quantities of this product should be added to water in the spray tank at time of application. Agitate or stir to assure a good mixture and continue some agitation during application. The quantity of spray solution to make up will depend upon the equipment to be used. When using a low volume sprayer, the proper dosage should be applied in at least 15 gallons of water per acre, although as little as 5 to 10 gallons per acre have been used successfully in certain instances. When using a high pressure sprayer, apply in 150 to 200 gallons of water per acre. For aerial application, apply in 2 to 5 gallons of water per acre. Always use the proper amount of 2,4-D Amine Weed Killer per unit area regardless of the quantity of water.

Do not apply with hollow cone-type insecticide or other nozzles that produce fine spray droplets. Drift from aerial or ground application may be reduced by: (1) applying as near to the target as possible in order to obtain coverage; (2) by increasing the volume of spray mix per acre; (3) by decreasing the pounds of pressure at the nozzle tips; (4) by using nozzles which produce a coarse spray pattern; and (5) by not applying when wind is blowing toward susceptible crops or valuable plants.

SMALL QUANTITIES: For mixing and applying small quantities, use the following approximate equivalents:

Dosage Per Acre	Amount Per 1,000 Sq. Ft.	Dosage Per Acre	Amount Per 1,000 Sq. Ft.
1/2 Pint	1 1/8 Teaspoon	2 1/2 Pints	5 1/2 Teaspoons
1 Pint	2 1/4 Teaspoons	4 Pints	3 Tablespoons
2 Pints	4 1/2 Teaspoons	6 Pints	4 1/2 Tablespoons

The dosage rates applied with low-volume power sprayers in 15 gallons of water per acre may usually be applied by means of hand or knapsack sprayers in 3 to 4 gallons of water per 1,000 square feet.

CLEANING SPRAY EQUIPMENT: It is almost impossible to remove residues of 2,4-D from sprayers and spray equipment, particularly from non-metallic parts (wood, rubber, fibre), and it is advisable NOT to use the same equipment for applying other materials to plants or crops. Do not use the same spray equipment for other purposes unless thoroughly cleaned.

USE OF LIQUID NITROGEN FERTILIZER: 2,4-D Amine Weed Killer may be combined with some liquid nitrogen fertilizers. However, the compatibility of 2,4-D Amine with the fertilizer must be tested before combining in the spray tank.

JAR TEST
Amount of 2,4-D Amine to add to one pint of Liquid Nitrogen Fertilizer

2,4-D Amine Rate/Acre	Level Teaspoons of 2,4-D Amine	
	Volume of 25 Gals./Acre	Volume of 100 Gals./Acre
1/2 Pint	1/4 Teaspoon	1/16 Teaspoon
1 Pint	1/2 Teaspoon	1/8 Teaspoon
2 Pints	1 Teaspoon	1/4 Teaspoon
4 Pints	2 Teaspoons	1/2 Teaspoon

The amount of herbicide to be tested, as indicated in the above table, is based on either 25 gallons or 100 gallons of finished spray per acre. When using lower or higher spray volumes, make appropriate changes in the ingredients of the compatibility test.

In a quart jar add the appropriate amount of 2,4-D Amine, as determined from the above chart, to one pint of liquid nitrogen fertilizer. Cover the jar and shake it well. Observe the mixture after 5 minutes and again after 30 minutes.

If the mixture does not ball up or form flakes, sludge, gels, oily films or layers or other precipitates, then the tested combination is compatible. If precipitates form but the mixture can be resuspended with agitation, the combination may be used, provided good agitation is maintained throughout the mixing and application operations.

If incompatibility occurs, the use of a suitable compatibility agent may solve the problem. Rerun the above compatibility test, but add 1/4 teaspoon of a compatibility agent prior to adding the 2,4-D Amine. (The 1/4 teaspoon is equivalent to 2 pints per 100 gallons of liquid nitrogen fertilizer.) If the mixture is still incompatible, DO NOT USE.

PLANTING IN TREATED AREAS

Labeled Crops: Within 29 days following an application of this product, plant only those crops named as use sites on this or other registered 2,4-D labels. Follow more specific limitations, if any, provided in the directions for individual crops. Labeled crops may be at risk for crop injury or loss when planted soon after application, especially in 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 following an 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 degradation 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 for information about susceptible crops and typical soil conditions in your area.

SPRAY DRIFT MANAGEMENT

A variety of factors including weather conditions (e.g., wind direction, 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 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 nontarget 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.

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.

TANK MIXING SEQUENCE

If the 2,4-D Amine/fertilizer mixture is compatible without the use of a compatibility agent: Fill the spray tank with half the amount of fertilizer to be used. Make a pre-mix of 1 part of 2,4-D Amine and 4 parts water. Add the pre-mix to the spray tank with agitation, and complete filling the tank with the fertilizer. Apply immediately and continue agitation in the spray tank during application.

If a compatibility agent must be used, add it to the spray tank prior to adding the 2,4-D Amine/water pre-mix.

Follow all applicable recommendations and field application rates on the fertilizer and compatibility agent labeling, as well as the 2,4-D Amine labeling.

SMALL GRAIN CROPS (Wheat, Barley, Millet, Rye, Oats): See table for directed use rates.

Spray when weeds are small after grains are well tillered (usually 4 to 8 inches tall), but before the boot stage. Do not apply before the tiller stage nor from early boot through milk stage. To control large weeds that will interfere with harvest or to suppress perennial weeds, preharvest 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.

The preharvest interval (PHI) is 14 days.

Postemergence: Limited to one postemergence application per crop cycle. Maximum of 1.25 lbs. ae/acre per application.

Preharvest: Limited to one preharvest application per crop cycle. Maximum of 0.5 lb. ae/acre per application.

Limited to 1.75 lbs. ae/acre per crop cycle.

Spring Planted Oats: Apply in sufficient water to give good coverage. Apply after the fully tillered stage, except during the boot to dough stage.

Fall Planted Oats: Apply after full tillering but before early boot stage. Some difficult weeds may require higher rate of 1 pint per acre for maximum control, but crop injury may result. Do not spray during or immediately following cold weather.

NOTE: Do not use on grain interplanted with legumes. Do not forage or graze treated grain field within 2 weeks after treatment with 2,4-D. Do not feed treated straw to livestock.

CORN (Field)

See table for directed use rates.

Do not use treated crop as fodder for 7 days following application. The preharvest interval (PHI) is 7 days. Maximum of 3 lbs. ae/acre per crop cycle.

Preplant: This product may be applied prior to planting corn to provide foliar burn-down control of susceptible annual and perennial broadleaf weeds and certain broadleaf cover crops such as those listed on this label. To control emerged broadleaf weed seedlings or existing cover crops prior to planting corn, apply 1 to 2 pints per acre 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. Limited to one preplant or preemergence application per crop cycle. Maximum of 1.0 lb. ae/acre per application.

Preemergence: Apply to soil anytime after planting but before corn emerges. Do not use on very light, sandy soil. Limited to one preplant or preemergence application per crop cycle. Maximum of 1.0 lb. ae/acre per application.

Emergence: Apply just as corn plants are breaking ground.

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 content is high, use 1/2 pint per acre rate to reduce the possibility of crop damage. Delay cultivation for 8 to 10 days after application to reduce possibility of stalk breakage due to temporary brittleness caused by 2,4-D. Hybrid corn should be sprayed only if the cross or line is known to be tolerant to 2,4-D at the directed dosage or after experience has shown the particular cross or lines being grown to be tolerant to 2,4-D treatment. Limited to one postemergence application per crop cycle. Maximum of 0.5 lb. ae/acre per application.

Preharvest: After the hard dough or denting stage, apply 1 to 2 pints per acre of 2,4-D Amine 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. Limited to one preharvest application per crop cycle. Maximum of 1.5 lbs. ae/acre per application.

CORN (Sweet): See table for directed use rates.

Preplant: This product may be applied prior to planting corn to provide foliar burn-down control of susceptible annual and perennial broadleaf weeds and certain broadleaf cover crops such as those listed on this label. To control emerged broadleaf weed seedlings or existing cover crops prior to planting corn, apply 1 to 2 pints per acre 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. Limited to one preplant or preemergence application per crop cycle. Maximum of 1.0 lb. ae/acre per application.

Preemergence: Apply to soil anytime after planting but before corn emerges. Do not use on very light, sandy soil. Limited to one preplant or preemergence application per crop cycle. Maximum of 1.0 lb. ae/acre per application.

Emergence: Apply just as corn plants are breaking ground.

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 content is high, use 1/2 pint per acre rate to reduce the possibility of crop damage. Delay cultivation for 8 to 10 days after application to reduce possibility of stalk breakage due to temporary brittleness caused by 2,4-D. Hybrid corn should be sprayed only if the cross or line is known to be tolerant to 2,4-D at the directed dosage or after experience has shown the particular cross or lines being grown to be tolerant to 2,4-D treatment. Limited to one postemergence application per crop cycle. Maximum of 0.5 lb. ae/acre per application.

HOPS

Annual broadleaf weeds: 1 pint.

Make directed applications to the row middles. Make up to 3 applications at 30-day intervals with the last application before harvest.

Restrictions and Limitations for Hops: Limited to 3 applications per crop cycle. Maximum of 1 pint product per acre (0.5 lbs. acid equivalent/A) per application. Maximum of 3 pints product per acre (1.5 lbs. acid equivalent/A) per application. Maximum of 3 pints product per acre (1.5 lbs. acid equivalent/A) per crop cycle. Minimum of 30 days between applications. Observe the preharvest interval (PHI) of 28 days.

SORGHUM (MILO): See table for directed use rates.

Apply when sorghum is 6 to 15 inches high with secondary roots well established. Use drop nozzles when crop is over 8 inches high. Do not treat during the boot, flowering or dough stage. Temporary crop injury can be expected under conditions of high soil moisture and high air temperatures. If it is necessary to apply 2,4-D Amine under these conditions, use no more than 2/3 pint per acre. Hybrids should be sprayed only if the cross or line is known to be tolerant to 2,4-D at the directed dosage or after experience has shown the particular crosses or lines being grown to be tolerant to 2,4-D treatment.

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 0.5 lb. ae/acre per application.

FOR USE IN CROP RESIDUE MANAGEMENT SYSTEMS IN SOYBEANS (Preplant Application Only)

2,4-D Amine Weed Killer may be used for postemergence control of many susceptible annual and perennial broadleaf weeds. This product may be applied prior to planting soybeans to provide foliar burn-down control of susceptible annual and perennial broadleaf weeds and certain broadleaf cover crops such as those listed on this label. Make only preplant applications to emerged weeds prior to planting soybeans grown in reduced tillage production systems. Apply only according to instructions given below.

Do not use any tillage operations between herbicide application and planting of soybeans.

Mixing Instructions: Compatible crop oil concentrates, agricultural surfactants and fluid fertilizers approved for use on growing crops may be added to spray mixture to increase the herbicidal effectiveness of 2,4-D Amine Weed Killer on certain weeds. Read and follow all directions and precautions on this label and on the label of each product added to the spray mixture.

Application Procedures: Apply using air or ground equipment in a spray volume sufficient to provide uniform coverage of weeds. Use 2 or more gallons of total spray volume per acre for aerial application and 10 or more gallons per acre for ground equipment.

APPLICATION TIMING AND USE RATES

PRODUCT	BROADCAST APPLICATION RATE	WHEN TO APPLY (Days Prior to Planting Soybeans)
2,4-D Amine	1 Pint/Acre 2 Pints/Acre	Not Less Than 15 Days Not Less Than 30 Days

• Limited to 1 application per crop cycle. Maximum of 1.0 lb. ae/acre per preplant application.

For best weed control results, application should be made when weeds are small, actively growing and free of stress caused by temperature extremes, moisture stress, diseases, or insect damage. The control of individual weed species may be variable. Consult your local county agent or State Agricultural Extension Specialist or Crop Consultant for advice.

Use Precautions and Restrictions

- Important Notice: Unacceptable injury to soybeans planted in treated fields may occur. Whether or not soybean injury occurs and the extent of such injury will depend on weather (temperature and rainfall) from herbicide application until soybean emergence and agronomic factors such as the amount of weed vegetation and previous crop residue present at the time of application. Injury is more likely under cool, rainy conditions and where there is less weed vegetation and crop residue present.
- Do not use on sandy soils with less than 1.0 organic matter.
- Do not make more than one application per season regardless of the application rate used.
- Do not apply when weather conditions such as atmospheric temperature inversion or when wind direction favors drift from the treated area to susceptible plants.
- Do not allow livestock grazing or harvest hay, forage or fodder from treated fields. Livestock should be restricted from feeding/grazing of treated cover crops.
- In treated fields, plant soybean seed as deep as practical, but not less than 1.0 inch deep. Adjust the planter, if necessary, to ensure that planted seed is adequately covered.
- Do not apply 2,4-D Amine Weed Killer as described unless you are prepared to accept the results of soybean injury, including possible stand loss and/or yield reduction.
- During the growing season following application, do not replant treated fields with crops other than those labeled for use with 2,4-D Amine Weed Killer.

RICE (except California): See table for directed use rates.

Apply in the late tillering stage of rice development, at the time of first joint development (first to second green ring), usually 6 to 9 weeks after emergence. Do not apply after panicle initiation, after rice internodes exceed 1/2 inch, at early seedling, early panicle, boot, flowering, or early heading growth stages. Some rice varieties under certain conditions can be injured by 2,4-D. Therefore, before spraying consult local Extension Service or University specialists for appropriate rates and timing of 2,4-D sprays. The preharvest interval (PHI) is 60 days. Maximum of 1.5 lbs. ae/acre per crop cycle.

Preplant: Limited to one preplant application per crop cycle. Maximum of 1.0 lbs. ae/acre per preplant application.

Postemergence: Limited to one postemergence application per crop cycle. Maximum of 1.5 lbs. ae/acre per postemergence application.

WILD RICE (For Use in Minnesota Only)

Common waterplantain: 1/2 pint.

Broadcast in 4 to 10 gallons total spray volume. Apply after waterplantain has emerged from the water and when wild rice is in the 1 to 2 aerial leaf to early tillering stage. Do not spray after wild rice has reached the boot stage.

Restrictions and Limitations for Wild Rice (For Use in Minnesota Only): For use only on wild rice grown in commercial paddies. Do not apply to wild rice growing in lakes, rivers or streams. Water that is drained out of wild rice paddies is not to be used to irrigate other crops. In order to protect federally listed endangered or threatened species, the Minnesota Department of Agriculture has a program to prenotify landowners where pesticide applications may affect federally listed endangered or threatened species. Limited to 1 application per crop cycle. Do not apply more than 1/2 pint/acre of 2,4-D Amine Weed Killer (maximum of 0.25 lb. ae/acre per application) per use season. Observe the preharvest interval (PHI) of 60 days.

SUGARCANE: See table for directed use rates.

Apply as a pre- or postemergence spray according to state recommendations. Apply as a preemergence application before canes appear or as a post-emergence application in spring after cane emerges and through lay-by. Do not harvest cane prior to crop maturity. Do not apply more than 4 lbs. ae/acre per crop cycle.

Preemergence: Limited to one application per crop cycle. Maximum of 2.0 lbs. ae (4 pints)/acre per application.

Postemergence: Limited to one application per crop cycle. Maximum of 2.0 lbs. ae (4 pints)/acre per application.

DIRECTED RATES OF 2,4-D AMINE WEED KILLER

Dosage Per Acre**		
Crop (See Detailed Instructions on Previous Page)	Normal Rates (Usually Safe To Crop)	Higher Rates For Special Situations* (More Likely To Injure Crop)
SMALL GRAINS:		
Spring Postemergence wheat, barley, millet, rye oats	2/3 to 1 1/3 Pints 1/2 to 1 Pint	2 to 3 Pints 1 1/2 to 2 Pints
Preharvest (dough stage) wheat, barley, oats	1 Pint	
Emergency Weed Control In Wheat		Apply when weeds are approaching bud stage, after the grain dough stage. Do not spray during the boot to dough stage. The 2 1/2 pints per acre application can produce injury to wheat. Balance the severity of your weed problem against the possibility of crop damage. Where perennial weeds are scattered, spot treatment is suggested to minimize the extent of crop injury.
Perennial Broadleaf Weeds Postemergence	2 1/2 Pints	
Preharvest	1 Pint	
CORN (FIELD AND SWEET):		
Preplant	1 to 2 Pints	
Preemergence	2 Pints	
Emergence	1 Pint	1 1/2 Pints
Postemergence up to 8 inches tall	1/2 to 1 Pint	
8 inches to tasseling (use only directed spray)	1 Pint	1 1/2 to 2 1/2 Pints
Preharvest (Field Corn only)	1 to 2 Pints	
SORGHUM:		
Postemergence 6 to 8 inches tall	2/3 to 1 Pint	
8 to 15 inches tall (use only directed spray)	1 Pint	1 1/2 to 2 Pints
RICE	1 to 2 1/2 Pints	2 to 3 Pints
SUGARCANE	2 to 4 Pints	

*The higher rates as directed above may be necessary to control difficult weed problems such as under dry conditions in the Western states. They should not be used, however, unless possible crop injury is acceptable. Consult State Agricultural Experiment Station or Extension Service weed specialists for recommendations or suggestions to fit local conditions.

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

LAWN AND ORNAMENTAL TURF: Use 1 to 3 pints of 2,4-D Amine Weed Killer in enough water to give good coverage to one acre on established stands of perennial grasses. 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. Reseeding of lawns should be delayed following treatment. With spring application, reseed in the fall; with fall application, reseed in the spring. Legumes are usually damaged or killed, therefore, do not treat areas where the legumes are desired. Deep-rooted perennial weeds such as bindweed and Canada thistle may require repeated applications. The maximum number of broadcast applications per treatment site is 2 per year.

Postemergence: Limited to 2 applications per year. Maximum of 1.5 lbs. ae (3 pints)/acre per application. The maximum seasonal rate is 3.0 lbs. ae (6 pints)/acre.

Repeated treatments, if new weed growth occurs, may be necessary to maintain control.

GRASS SEED CROPS: Limited to 2 applications per year. Maximum of 2.0 lbs. ae per acre per application. Minimum of 21 days between applications. Use 1 to 4 pints per acre in 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 3/4 to 1 pint per acre to control small seedling weeds. After the grass is well established, higher rates of up to 4 pints can be used to control hard-to-kill annual or perennial weeds. For best results, apply when soil moisture is adequate for good growth.

Note: Do not use on bent grass unless grass injury can be tolerated. Do not graze dairy animals nor cut forage for hay within 7 days after application.

WEED CONTROL IN SOD FARMS (except California): Limited to 2 applications per year. Maximum of 2.0 lbs. ae per acre per application. Minimum of 21 days between applications. Use 1 to 2 quarts per acre in the amount of water needed for uniform application. Treat when weeds are young and growing well. Usually 2 quarts per acre will provide adequate weed control. Do not use on dichondra or other herbaceous ground covers. Do not use on creeping grasses such as bent except for spot treating nor on freshly seeded turf until grass is well established. Reseeding should be delayed following treatment. With spring application, reseed in the fall; with fall application, reseed in the spring. Legumes are usually damaged or killed. Deep-rooted perennial weeds such as bindweed and Canada thistle may require repeated applications.

GRASSES IN CONSERVATION RESERVE PROGRAM AREAS: Limited to 2 applications per year. Maximum of 2.0 lbs. ae per acre per application. Minimum of 30 days between applications. To control or suppress annual broadleaf weeds, apply when weeds are actively growing. Use 1/2 to 1 pint per acre when weeds are small. Use higher rates on older weeds. Excessive injury may result if applied to young grasses with fewer than 6 leaves or prior to grasses being well established. To control or suppress biennial and perennial broadleaf weeds in established grasses, apply at a rate of 1 to 2 quarts per acre. Apply to actively growing weeds. Treat when biennial weeds are in the seedling to rosette stage and before flower stalks become apparent. Treat perennial weeds in the bud to bloom stage.

Note: Suggest at least 2 gallons of water per acre by air and 5 gallons of water per acre by ground. Do not harvest or graze treated Conservation Reserve Program Areas. Do not apply to grasses in the boot to dough stage if grass seed production is desired.

CROP STUBBLE AND FALLOW LAND: Use 1 to 2 quarts per acre on annual broadleaf weeds and up to 2 quarts per acre on established perennial species, such as Canada thistle and field bindweed. Apply to weeds actively growing. Do not plant any crop for 3 months after treatment or until 2,4-D has disappeared from the soil.

Plant only labeled crops within 29 days following application. Limited to 2 applications per year. Maximum of 2.0 lbs. ae (4 pints)/acre per application. Minimum of 30 days between applications.

WILD GARLIC IN GRAIN STUBBLE: To prevent new growth of garlic following harvest, apply 4 pints of product per acre to stubble. Do not forage for 14 days following application. Do not plant any crop for 3 months after treatment or until 2,4-D Amine Weed Killer has disappeared from soil.

PASTURES AND RANGELAND: To control many broadleaf weeds in pastures, meadows, and rangelands, use 2 to 4 pints per acre of 2,4-D Amine Weed Killer in sufficient water to provide for uniform application. Treat when weeds are growing actively. Do not use on newly seeded areas until grass is well established. Do not use from early boot to milk stage where grass seed production is desired. Most legumes are usually injured or killed at the rates directed. Do not graze dairy animals on treated areas within 7 days of application. Do not cut forage for hay within 7 days of application. Do not graze meat animals on treated areas within 3 days of slaughter.

Postemergence:

For susceptible annual and biennial broadleaf weeds: Use 1.0 lbs. ae (2 pints)/acre per application.

For moderately susceptible biennial and perennial broadleaf weeds: Use 1.0 to 2.0 lbs. ae (2 to 4 pints)/acre per application.

For difficult-to-control weeds and woody plants: Use 2.0 lbs. ae (4 pints)/acre per application.

Maximum of two applications per year. Maximum of 4.0 lbs. ae (8 pints)/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.

CONTROL OF SOUTHERN WILD ROSE: On rangelands, roadsides, and fence rows, use 2 quarts plus 4 to 8 fluid ounces of an agricultural surfactant per 100 gallons of water and spray thoroughly as soon as foliage is well developed. For rangeland and noncrop areas, the maximum number of applications is 2 per year. On rangeland, apply a maximum of 2 quarts per acre per application. Do not graze dairy animals on treated area within 7 days after application.

WEED CONTROL (Airfields, roadsides, vacant lots, fence rows, industrial sites, and similar areas): Use 1 to 2 quarts per acre. Usually 2 quarts per acre will give adequate control. Treat when weeds are young and actively growing. 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 seed-ed turf until grass is well established. Delay reseeding for 3 months or until 2,4-D has disappeared from soil. The maximum number of broadcast applications per treatment site is 2 per year.

Postemergence (annual and perennial weeds): Limited to 2 applications per year. Maximum of 2.0 lbs. ae (4 pints)/acre per application. Minimum of 30 days between applications.

Postemergence (woody plants): Limited to 1 application per year. Maximum of 4.0 lbs. ae (8 pints)/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.

RIGHTS-OF-WAY: Apply up to 2 quarts of product per acre for the control of annual and perennial broadleaf weeds and susceptible woody species. For less susceptible perennial broadleaf weeds and difficult-to-control woody species, use a combination of 2 quarts of product plus 1 to 4 quarts of Garlon™ 3A herbicide per acre. For ground application, apply up to 4 quarts of product in 20 to 400 gallons of water, depending on the height of the weeds and brush. Dilute 4 quarts of product in the higher volumes of up to 400 gallons per acre for dense brush 6 feet tall or higher. For aerial application, use 10 to 30 gallons per acre total spray volume.

Postemergence (annual and perennial weeds): Limited to 2 applications per year. Maximum of 2.0 lbs. ae (4 pints)/acre per application. Minimum of 30 days between applications.

Postemergence (woody plants): Limited to 1 application per year. Maximum of 4.0 lbs. ae (8 pints)/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.

WOODY PLANT CONTROL: To control woody plants susceptible to 2,4-D, such as Alder, Buckbrush, Elderberry, Sumac, and Willow on non-crop areas, use 2 quarts of this product in 100 gallons of water per acre. Wet all parts of the plants thoroughly, including stem and foliage to the point of runoff. Higher volumes of up to 400 gallons 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.

TREE INJECTION: For control of unwanted hardwoods such as elm, oak, hickory, and sweetgum in forest and other non-crop areas, apply undiluted by injecting 1 ml through the bark, using one injection per inch of trunk diameter measured at breast height (4 1/2 feet). For harder to control species (ash, maple, dogwood), use 2 ml undiluted per injection. All injections should be as near the root collar as possible and should be evenly spaced around the trunk. Injections may be made at any time of the year but are most effective during the growing season. Maples should not be treated during the spring sap rise.

STONE FRUIT AND NUT ORCHARDS (except in California):

Stone Fruit: The preharvest interval (PHI) is 40 days. Limited to 2 applications per crop cycle. Maximum of 2.0 lbs. ae (4 pints) per acre per application. Minimum of 75 days between applications.

Tree Nuts: The preharvest interval (PHI) is 60 days. Limited to 2 applications per crop cycle. Maximum of 2.0 lbs. ae (4 pints) per acre per application. Minimum of 30 days between applications.

To control annual broadleaf weeds on the orchard floor, apply 3 pints per acre using coarse sprays and low pressure in sufficient volume of water to obtain thorough wetting of weeds. Treat when weeds are small and actively growing. Do not use on light, sandy soil. NOTE: Do not apply (1) to bare ground as injury may result; (2) to newly established or young orchards. Trees must be at least 1 year old, in vigorous condition; (3) during bloom; (4) more than twice a year; (5) immediately before irrigation and withhold irrigation for 2 days before and 3 days after treatment. Also, do not allow spray to drift onto or contact foliage, fruit, stems, trunks of trees or exposed roots as injury may result. Do not graze or feed cover crops from treated orchards.

AQUATIC APPLICATIONS:

Weeds and Brush on Irrigation Canal Ditchbanks: Seventeen Western States: Arizona, California, Colorado, Idaho, Kansas, Montana, Nebraska, New Mexico, Nevada, North Dakota, Oklahoma, Oregon, South Dakota, Texas, Utah, Washington, Wyoming.

For control of annual and perennial broadleaf weeds, apply 1 to 2 quarts per acre in approximately 20 to 100 gallons per acre of total spray. Treat when weeds are young and actively growing before the bud or early bloom stage. For harder-to-control weeds, a repeat spray may be needed after 3 to 4 weeks for maximum results, using the same rates. The maximum number of broadcast applications per treatment site is 2 per year. For woody brush and patches of perennial broadleaf weeds, mix one gallon in 150 gallons of water. Wet foliage thoroughly, using approximately 1 gallon of spray solution per square rod.

Spraying Instructions: Low pressure (10 to 40 psi) power spray equipment should be used and mounted on a truck, tractor, or boat. Apply while traveling upstream to avoid accidental concentration of chemical into water. Spray when the air is calm, 5 mph or less. Do not use on small canals (less than 10 CFS) where water will be used for drinking purposes.

Boom spraying onto water surface must be held to a minimum and no cross-stream spraying to opposite banks should be permitted. When spraying shoreline weeds, allow no more than 2-foot overspray onto water with an average of less than one-foot overspray to prevent introduction of greater than negligible amounts of chemical into water.

Do not allow dairy animals to graze on treated areas for at least 7 days after spraying. Water within treated banks should not be fished.

Postemergence: Limited to 2 applications per season. Maximum of 2.0 lbs. ae (4 pints)/acre per application. Minimum of 30 days between applications. Spot treatment permitted. Do not use on small canals with a flow rate less than 10 cubic feet per second (CFS) where water will be used for drinking purposes. CFS may be estimated by using the formula below. The approximate velocity needed for the calculation can be determined by observing the length of time that it takes a floating object to travel a defined distance. Divide the distance (ft.) by the time (sec.) to estimate velocity (ft. per sec.). Repeat 3 times and use the average to calculate CFS.

$$\text{Average Width (ft.)} \times \text{Average Depth (ft.)} \times \text{Average Velocity (ft. per sec.)} = \text{CFS}$$

For ditchbank weeds: Do not allow boom spray to be directed onto water surface. Do not spray across stream to opposite bank.

For Aquatic Weeds in Lakes, Ponds, Reservoirs, Bayous, Canals, Streams, Drainage Ditches, and Marshes: Use 2 1/2 to 4 pints of product in 50 to 100 gallons of water per acre. Spray to wet foliage thoroughly. Application should be made when leaves are fully developed above water line and plants are actively growing. Your State Conservation Department or Game and Fish Commission will assist you in determining the best time and rate for application under local conditions.

DO NOT APPLY to more than 1/3 to 1/2 of a lake or pond in any one month because excessive decaying vegetation may deplete oxygen content of water and kill fish.

Do not contaminate water used for irrigation or domestic purposes.

Perennial and other hard-to-control weeds may require a repeat application to give adequate control.

For shoreline weeds: Allow no more than 2-foot overspread onto water.

Floating and Emergent Weeds: Maximum of 4.0 lbs. ae (8 pints)/surface acre per application. Limited to 2 applications per season. Minimum of 21 days between applications. Apply to emergent aquatic weeds in ponds, lakes, reservoirs, marshes, bayous, drainage ditches, non-irrigation canals, rivers, and streams that are quiescent or slow moving. Coordination and approval of local and state authorities may be required, either by letter of agreement or issuance of special permits for aquatic applications.

WATER USE:

1. Water for irrigation or sprays:

- A. If treated water is intended to be used only for crops or non-crop areas that are labeled for direct treatment with 2,4-D such as pastures, turf, or cereal grains, the treated water may be used to irrigate and/or mix sprays for these sites at anytime after the 2,4-D aquatic application.
- B. Due to potential phytotoxicity considerations, the following restrictions are applicable:

If treated water is intended to be used to irrigate or mix sprays for plants grown in commercial nurseries and greenhouses, and other plants or crops that are not labeled for direct treatment with 2,4-D, the water must not be used unless one of the following restrictions has been observed:

- i. A setback distance from functional water intake(s) of greater than or equal to 600 ft. was used for the application, or
- ii. A waiting period of 7 days from the time of application has elapsed, or,
- iii. An approved assay indicates that the 2,4-D concentration is 100 ppb (0.1 ppm) or less at the water intake. Wait at least 3 days after application before initial sampling at water intake.

POTABLE WATER: Delay the use of treated water for domestic purposes for a period of three weeks or until such time as an approved assay shows that the water contains no more than 0.1 ppm 2,4-D Amine Weed Killer.

- A. Consult with appropriate state or local water authorities before applying this product to public water. State or local agencies may require permits. The potable water use restrictions on this label are to ensure that consumption of water by the public is allowed only when the concentration of 2,4-D in the water is less than the MCL (Maximum Contaminant Level) of 70 ppb. Applicators should consider the unique characteristics of the treated waters to assure that 2,4-D concentrations in potable water do not exceed 70 ppb at the time of consumption.
- B. For floating and emergent weed applications, the drinking water setback distance from functioning potable water intakes is greater than or equal to 600 ft.
- C. If no setback distance of greater than or equal to 600 ft. is used for application, applicators or the authorizing organization must provide a drinking water notification prior to a 2,4-D application to the party responsible for public water supply or to individual private water uses. Notification to the party responsible for a public water supply or to individual private water users must be done in a manner to assure that the party is aware of the water use restrictions when this product is applied to potable water.

The following is an example of a notification via posting, but other methods of notification which convey the above restrictions may be used and may be required in some cases under state or local law or as a condition of a permit.

Example: Posting notification should be located every 250 feet including the shoreline of the treated area and up to 250 feet of shoreline past the application site to include immediate public access points. Posting must include the day and time of application. Posting may be removed if analysis of a sample collected at the intake 3 or more days following application shows that the concentration in the water is less than 70 ppb (100 ppb for irrigation or sprays), or after 7 days following application, whichever occurs first.

Text of notification: Wait 7 days before diverting functioning surface water intakes from the treated aquatic site to use as drinking water, irrigation, or sprays, unless water at functioning drinking water intakes is tested at least 3 days after application and is demonstrated by assay to contain not more than 70 ppb 2,4-D (100 ppb for irrigation or sprays). Application Date: _____ Time: _____

D. Following each application of this product, treated water must not be used for drinking water unless one of the following restrictions has been observed:

- i. A setback distance from functioning water intake(s) of greater than or equal to 600 ft. was used for the application, or
- ii. A waiting period of at least 7 days from the time of application has elapsed, or,
- iii. An approved assay indicated that the 2,4-D concentration is 70 ppb (0.07 ppm) or less at the water intake. Sampling for drinking water analysis should occur no sooner than 3 days after the 2,4-D application. Analysis of samples must be completed by a laboratory that is certified under the Safe Drinking Water Act to perform drinking water analysis using a currently approved version of analytical Method Number 515,555, other methods for 2,4-D as may be listed in Title 40 CFR, Part 141.24, or Method Number 4015 (immunoassay of 2,4-D) from U.S. EPA Test Methods for Evaluating Solid Waste SW-846.

E. **Note:** Existing potable water intakes that are no longer in use, such as those replaced by a connection to a municipal water system or a potable water well, are not considered to be functioning potable water intakes.

F. Drinking water setback distances do not apply to terrestrial applications of 2,4-D adjacent to water bodies with potable water intakes.

WATER HYACINTH (*Eichornia crassipe*): 2,4-D Amine Weed Killer will control water hyacinth with surface and air applications. Use 2 to 4 quarts (4 lbs. acid equivalent per gallon) per acre. Spray the weed mass only. Use 4 quarts when plants are matured or when the weed mass is dense. Apply when water hyacinth plants are actively growing. Repeat as necessary to kill regrowth and hyacinth plants missed in the previous operation.

Surface Application: Use power sprayers operated with a boom or spray gun mounted on a boat, tractor or truck. Thorough wetting of foliage is essential for maximum control. Use 100 to 400 gallons per acre of spray mixture. Special precautions such as the use of low pressure, large nozzles and thickening agents should be taken to avoid spray drift in areas of sensitive crops. For DIRECTA-SPRA® operation use 2,4-D Amine Weed Killer with 1 pint of drift control agent in 50 to 100 gallons of water. For other applications, follow the drift control agent label for mixing directions.

Air Application: Use drift control spray equipment or thickening agents mixed into the spray solution. Apply 1 gallon per acre of 2,4-D Amine Weed Killer through standard boom systems with a minimum of 5 gallons of spray mix per acre. For MICROFOIL® drift control systems, apply 2,4-D Amine Weed Killer in 12 to 15 gallons spray mix per acre.

2,4-D Acid Equivalent	1/2 lb.	1 lb.	2 lbs.	3 lbs.	4 lbs.
2,4-D Amine Weed Killer	1 pt.	2 pts.	2 qts.	3 qts.	4 qts.

WATER MILFOIL (*Myriophyllum spicatum*): For Eurasian Water Milfoil in programs conducted by the Tennessee Valley Authority in dams and reservoirs of the TVA system, 2,4-D Amine Weed Killer will control water milfoil with surface, subsurface and air applications.

How To Use: To control water milfoil when less than 5 gallons of concentrate per acre is directed, dilute the concentrate with water to apply a minimum of 5 gallons of spray mix per acre. Do not treat within 1/2 mile of potable water intakes. Shoreline areas should be treated by subsurface injection applied by boat to avoid aerial drift. Do not apply when weather conditions favor drift from target area. Do not contaminate water by cleaning of equipment washwaters.

Open Water Areas: To reduce contamination and prevent undue exposure of fish and other aquatic organisms, do not treat water areas that are not infested with aquatic weeds.

Amounts To Use: Apply 2 1/2 to 10 gallons of 2,4-D Amine Weed Killer per acre. The higher rate is used in areas of greater water exchange. These areas may require a repeat application.

When To Apply: For best results, apply in spring or early summer when milfoil starts to grow. This timing can be checked by sampling the lake bottom in areas heavily infested with weeds the year before.

Subsurface Application: Apply 2 1/2 to 10 gallons of 2,4-D Amine Weed Killer per acre as a concentrate directly into the water through boat mounted distribution systems.

Surface Application: Apply 2 1/2 to 10 gallons of 2,4-D Amine Weed Killer per acre in a minimum spray volume of 5 gallons mix per acre.

Air Application: Use drift control spray equipment or thickening agents mixed into the spray solution. Apply 2 1/2 to 10 gallons per acre of 2,4-D Amine Weed Killer through standard boom systems with a minimum of 5 gallons of spray mix per acre. For MICROFOIL® drift control spray systems apply 2,4-D Amine Weed Killer in 12 to 15 gallons spray mix per acre.

Submersed Weeds

Maximum of 10.8 lbs. ae/per acre-foot per application.

Limited to 2 applications per season.

Apply to aquatic weeds in ponds, lakes, reservoirs, marshes, bayous, drainage ditches, non-irrigation canals, rivers, and streams that are quiescent or slow moving.

Do not apply within 21 days of previous application.

When treating moving bodies of water, applications must be made while traveling upstream to prevent concentration of 2,4-D downstream from the application.

Coordination and approval of local and state authorities may be required, either by letter of agreement or issuance of special permits for such use.

Table 1. Amount of 2,4-D to Apply for a Target Subsurface Concentration

Surface Area	Average Depth	For typical conditions - 2 ppm 2,4-D ae/acre-foot	For difficult conditions* - 4 ppm 2,4-D ae/acre-foot
1 acre	1 ft.	5.4 lbs.	10.8 lbs.
	2 ft.	10.8 lbs.	21.6 lbs.
	3 ft.	16.2 lbs.	32.4 lbs.
	4 ft.	21.6 lbs.	43.2 lbs.
	5 ft.	27.0 lbs.	54.0 lbs.

*Examples include spot treatment of pioneer colonies of Eurasian Water Milfoil and certain difficult to control aquatic species.

WATER USE:

1. Water for irrigation or sprays:

A. If treated water is intended to be used only for crops or non-crop areas that are labeled for direct treatment with 2,4-D such as pastures, turf, or cereal grains, the treated water may be used to irrigate and/or mix sprays for these sites at anytime after the 2,4-D aquatic application.

B. Due to potential phytotoxicity considerations, the following restrictions are applicable:

If treated water is intended to be used to irrigate or mix sprays for unlabeled crops, noncrop areas or other plants not labeled for direct treatment with 2,4-D, the water must not be used unless one of the following restrictions has been observed:

- i. A setback distance described in the Drinking Water Setback Table was used for the application, or
- ii. A waiting period of 21 days from the time of application has elapsed, or,
- iii. An approved assay indicates that the 2,4-D concentration is 100 ppb (0.1 ppm) or less at the water intake. See Table 3 for the waiting period after application but before taking the initial sampling at water intake.

2. Drinking water (potable water):

A. Consult with appropriate state or local water authorities before applying this product to public waters. State or local agencies may require permits.

The potable water use restrictions on this label are to ensure that consumption of water by the public is allowed only when the concentration of 2,4-D in the water is less than the MCL (Maximum Contaminant Level) of 70 ppb. Applicators should consider the unique characteristics of the treated waters to assure that 2,4-D concentrations in potable water do not exceed 70 ppb at the time of consumption.

B. For submerged weed applications, the drinking water setback distances are provided in Table 2. Drinking Water Setback Distance (below).

C. If no setback distance from the Drinking Water Setback Table (Table 2) is to be used for the application, applicators or the authorizing organization must provide a drinking water notification and an advisory to shut off all potable water intakes prior to a 2,4-D application. Notification to the party responsible for a public water supply or to individual private water users must be done in a manner to assure that the party is aware of the water use restrictions when this product is applied to potable water. The following is an example of a notification via posting, but other methods of notification which convey the above restrictions may be used and may be required in some cases under state or local law or as a condition of a permit.

Example: Posting notification should be located every 250 feet including the shoreline of the treated area and up to 250 feet of shoreline past the application site to include immediate public access points. Posting should include the day and time of application. Posting may be removed if analysis of a sample collected at the intake no sooner than stated in Table 3 (below) shows that the concentration in the water is less than 70 ppb (100 ppb for irrigation or sprays), or after 21 days following application, whichever occurs first.

Text of notification: Wait 21 days before diverting functioning surface water intakes from the treated aquatic site to use as drinking water, irrigation, or sprays, unless water at functioning drinking water intakes is tested no sooner than (insert days from Table 3) and is demonstrated by assay to contain not more than 70 ppb 2,4-D (100 ppb for irrigation or sprays). Application Date: _____ Time: _____.

D. Following each application of this product, treated water must not be used for drinking water unless one of the following restrictions has been observed:

- i. A setback distance described in the Drinking Water Setback Distance Table was used for the application, or
- ii. A waiting period of at least 21 days from the time of application has elapsed, or,
- iii. An approved assay indicates that the 2,4-D concentration is 70 ppb (0.07 ppm) or less at the water intake. Sampling for drinking water analysis should occur no sooner than stated in Table 3. Analysis of samples must be completed by a laboratory that is certified under the Safe Drinking Water Act to perform drinking water analysis using a currently approved version of analytical Method Number 515,555, other methods for 2,4-D as may be listed in Title 40 CFR, Part 141.24, or Method Number 4015 (immunoassay of 2,4-D) from U.S. EPA Test Methods for Evaluating Solid Waste SW-846.

E. **Note:** Existing potable water intakes that are no longer in use, such as those replaced by a connection to a municipal water system or a potable water well, are not considered to be functioning potable water intakes.

F. Drinking water setback distances do not apply to terrestrial applications of 2,4-D adjacent to water bodies with potable water intakes.

3. Except as stated above, there are no restrictions on using water from treated areas for swimming, fishing, watering livestock or domestic purposes.

Table 2. Drinking Water Setback Distance for Submersed Weed Application

Application Rate and Minimum Setback Distance (feet) From Functioning Potable Water Intake			
1 ppm*	2 ppm*	3 ppm*	4 ppm*
600	1200	1800	2400

*ppm acid equivalent target water concentration

Table 3. Sampling for Drinking Water Analysis After 2,4-D Application for Submersed Weed Applications

Minimum Days After Application Before Initial Water Sampling at the Functioning Potable Water Intake			
1 ppm*	2 ppm*	3 ppm*	4 ppm*
5	10	10	14

*ppm acid equivalent target water concentration

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Do not store at temperatures below 40°F. Do not store near fertilizers, seeds, insecticides, or fungicides.

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: Nonrefillable containers 5 gallons or less: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. 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. If recycling or reconditioning is not available, 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. 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 containers 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. 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.

-OR-

Refillable Container: Refill this container with pesticide only. Do not reuse this container for any other purpose. Close all openings and replace all caps. Contact Universal Cooperatives, Inc.'s Customer Service Department at 1-651-239-1000 to arrange for return of the empty refillable container.

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IMPORTANT: READ BEFORE USE

Read the entire Directions For Use and Warranty and Limitation of Damages before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following conditions and Warranty and Limitation of Damages.

WARRANTY AND LIMITATION OF DAMAGES

Universal Cooperatives, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth in the complete Directions For Use label booklet ("Directions") when used in accordance with those Directions under the conditions described therein. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. This warranty is also subject to the conditions and limitations stated herein.

Buyer and all users shall promptly notify this Company of any claims whether based in contract, negligence, strict liability, other tort or otherwise.

To the extent consistent with applicable law, Buyer and all users are responsible for all loss or damage from use or handling which results from conditions beyond the control of this Company, including, but not limited to, incompatibility with products other than those set forth in the Directions, application to or contact with desirable vegetation, unusual weather, weather conditions which are outside the range considered normal at the application site and for the time period when the product is applied, as well as weather conditions which are outside the application ranges set forth in the Directions, application in any manner not explicitly set forth in the Directions, moisture conditions outside the moisture range specified in the Directions, or the presence of products other than those set forth in the Directions in or on the soil, crop or treated vegetation.

Upon opening and using this product, buyer and all users are deemed to have accepted the terms of this Warranty and Limitation of Damages which may not be varied by any verbal or written agreement. If terms are not acceptable, return at once unopened.

To the extent consistent with applicable law, seller's liability or default, breach or failure under this label shall be limited to the amount of the purchase price.

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