



2,4-D AMINE HERBICIDE

ACTIVE INGREDIENT: BY WT. Dimethylamine Salt of 2,4-Dichlorophenoxyacetic Acid 46.7% OTHER INGREDIENTS 53.3%

Equivalent to 38.8% of 2,4-Dichlorophenoxyacetic acid or 3.8 lb/gal. Isomer specific by AOAC Method 6.275, 13th Ed, 1980.

KEEP OUT OF REACH OF CHILDREN

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.)

	FIRST AID		
IF IN EYES:	 Hold eyelid 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 eyes. Call a poison control center or doctor immediately for treatment advice. 		
IF SWALLOWED:	Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Have person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person.		
IF ON SKIN OR CLOTHING:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor immediately for treatment advice.		
IF INHALED:	 Move victim to fresh air. If not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. 		
	HOTLINE NUMBER		

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency assistance call toll-free, 1-800-424-9300 (Chemtrec). Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

SEE INSIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

U.S. Patent #5,877,112 EPA REG. NO. 5905-501 EPA EST. NO. 42750-MO-001 AD 091917HAF

Manufactured For HELENA AGRI-ENTERPRISES, LLC 225 SCHILLING BOULEVARD, SUITE 300 COLLIERVILLE, TENNESSEE 38017 U.S.A. • (901) 761-0050

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER

Corrosive. Causes irreversible eye damage. Harmful if swallowed or absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

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

- long-sleeved shirt and long pants,
- · shoes and socks,
- chemical resistant gloves made of Barrier Laminate, Nitrile Rubber ≥ 14 mils, Neoprene Rubber ≥ 14 mils, or Viton ≥ 14 mils
- · protective evewear
- 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.

USER SAFETY 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.

Engineering Controls:

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.

ENVIRONMENTAL HAZARDS

For terrestrial uses: This product may be toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark except as permitted by this label. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwaters or rinsate.

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

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.

GROUNDWATER CONTAMINATION

Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D has 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.

PHYSICAL OR CHEMICAL HAZARDS

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

DIRECTIONS FOR USE

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

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

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

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 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
- · Waterproof gloves
- · 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 or allow people (or pets) to enter the treated area until sprays have dried.

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, blasts and 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 (ASABE standard S-572.1) or 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 (ASABE standard S-572.1) 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 and 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 (vegetable 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.

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.

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

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

CHEMICATION PROHIBITION

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

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Protect from freezing. If stored below 32°F and crystals form, warm to 72°F for 24 hours, periodically rolling drum to reconstitute.

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 HANDLING

NONREFILLABLE METAL CONTAINER (EQUAL TO OR LESS THAN 5 GALLONS): 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 ¼ 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. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

NONREFILLABLE METAL CONTAINER (GREATER THAN 5 GALLONS): 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. Fill the container 'A 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. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

NONREFILLABLE PLASTIC CONTAINER (EQUAL TO OR LESS THAN 5 GALLONS): 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 ¼ 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. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or incineration if allowed by state and local authorities. If burned, stay out of smoke.

NONREFILLABLE PLASTIC CONTAINER (GREATER THAN 5 GALLONS): Do not reuse or refill this container. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ 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. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or incineration if allowed by state and local authorities. If burned, stay out of smoke.

REFILABLE CONTAINER: Refill this container with pesticide only. Do not reuse this container for any other purpose. Prior to refilling, inspect thoroughly for damage such as cracks, punctures, abrasions, and damaged or worn-out threads on closure devices. Do not refill or transport damaged or leaking containers. Check for leaks after refilling and before transportation. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility for the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. If the container is not being refilled, return to the point of purchase or designated location.

PRODUCT INFORMATION

Performance of this product may be affected by local condition, 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 young succulent weeds that are actively growing. For perennial weeds and conditions such as the very dry areas of the western states, where control is difficult, use the higher rates as shown in the "CROP SPECIFIC USE DIRECTIONS" below.

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. Application rates should be 1 to 5 gallons of total spray by air or 5 to 25 gallons by ground equipment unless otherwise directed. In either case, use the same amount of 2,4-D per acre. For crop uses, do not mix with oil, surfactants, or other adjuvants unless specifically listed on label. To do so may reduce herbicides selectivity and could result in crop damage.

Aerial 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 applications. This product contains the Dimethylamine salt of 2,4–D.

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. Excessive amounts of this product in the soil may temporarily inhibit seed germination and all plant growth.

Users should note that herbicide treatment of public water requires a permit from appropriate state agencies in most states. Your State Conservation Department, or Game and Fish Commission will aid you in securing a permit in your state.

If stored below freezing, it may be necessary to warm product to 70°F and agitate before using. This does not affect the efficiency of the product.

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

Spray Preparation: Add the listed amount of **OPTI-AMINE**® to approximately one-half the volume of water to be used for spraying. Agitate well, and then add the remainder of the water. Continue agitation during application until spray tank is empty.

Use in Liquid Nitrogen Fertilizer: OPTI-AMINE® may be combined with liquid nitrogen fertilizer suitable for foliar application of corn, grass, pastures or small grains in one operation. Use **OPTI-AMINE**® according to directions on this label for those crops. Use liquid nitrogen fertilizer at rates approved by supplier or extension service specialist. Mix the product and fertilizer according to the following instructions:

Fill the spray tank approximately ½ full with the liquid nitrogen fertilizer. In a separate container, mix the amount of **OPTI-AMINE**® to be used with an equal amount of water. Add **OPTI-AMINE**® mixture to the spray tank while agitating. 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: Pre-mixing the product with an equal amount of water is important.

WHERE TO USE

This product is used to control broadleaf weeds in Apples, Pears, Stone Fruits, Nut Orchards, Filberts, Asparagus, Blueberries, Cereal Grains, Corn, Sorghum, Cranberries, Grape Vineyards, Hops, Potatoes (Red), Rice, Wild Rice, Soybeans, Strawberries, Sugarcane, weeds and brush in CRP Areas, Established Grass Pastures, Rangeland, Fallowland, Turf Applications, Forestry Uses, Bioenergy Crops, rights-of-way, and similar noncrop uses, tree injection, and for aquatic weed control.

WEEDS CONTROLLED

RUSH

*GOLDENROD **ALDERS** ALLIGATOR WEED GOOSEFOOT *RUSSIAN THISTLE AMERICAN LOTUS *GROUND IVY SAGEBRUSH ARROWHEAD **GUMWEED** SALSIFY HEALALL *SALT CEDAR (T. ramosissima) ASTER **ARTICHOKE HEMP** SHEPHERDSPURSE **AUSTRIAN FIELDCRESS HENBIT** SICKLEPOD *BEGGARTICKS *HOARY CRESS *SMARTWEEDS HORSETAIL **SNEEZEWEED** BIDEN *BINDWEED HONEYSUCKLE SOUTHERN WILD ROSE **BITTERSWEET INDIGO** SOW THISTLE **BITTERWEED** INDIAN MALLOW SPANISH NEEDLES BITTER WINTERCRESS *IRONWEED **SPATTERDOCK BLACKEYED SUSAN** JERUSALEM ARTICHOKE ST. JOHNSWORT BLESSED THISTLE STINGING NETTLES **JEWELWEED** JIMSONWEED STINKWEED **BLUE LETTUCE BOX ELDER** *KNOTWEED **SUMAC BROOMWEED** LAMBSQUARTERS SUNFLOWER LOCOWEED SWEET CLOVER **BUCKHORN** BULLTHISTLE **LUPINES TANWEED** *MALLOW BULRUSH **TARWEED** BURDOCK MARIJUANA THISTLES **BUR RAGWEED** MARSHELDER **TOADFLAX** BUTTERCUP MEXICAN WEED TUMBLEWEED MORNINGGI ORY *CANADA THISTLE VELVETLEAF CARPETWEED ***MUSKTHISTLE VENICEMALLOW CATNIP **MUSTARDS** *VERVAINS CHICKWEED *NETTLES **VETCHES** NUTGRASS VIRGINIA CREEPER CHICKORY CINQUEFOIL *ORANGE HAWKWEED WATER HYACINTH PARROT FEATHER WATER LILY COCKLE COCKLEBUR **PARSNIP** WATER PLANTAIN WATER PRIMROSE **PENNYCRESS** COFFEEBEAN COFFEEWEED PENNYWORT WATER SHIELD CREEPING JENNY **PEPPERGRASS** WILD CARROT **PEPPERWEED** *WILD GARLIC CROTON **PIGWFFDS** WILD LETTLICE **CURLY INDIGO** DANDELION **PLANTAINS** *WILD ONION DEVIL'S CLAW (Proboscidea Iouisianica) POISON HEMLOCK WILD PARSNIP POISON IVY WILD RADISH *DOCKS **POKEWEED** WILD RAPE *DOGBANE DUCKWEED **POORJOE** WILD STRAWBERRY **ELDERBERRY** POVERTYWEED WILD SWEET POTATO PRICKLY LETTUCE FI FARANE WILLOW WITCHWEED **FIXWEED** PRIMROSE FLORIDA PUSLEY PUNCTURE VINE WOODWORM **FRENCHWEED PURSLANE** WORMSEED **GALINSOGA RADISH** YELLOW ROCKET

RAGWEED

GOATSBEARD

^{*}These species may require repeated applications and/or use of the higher rate listed on this product label even under ideal

^{**}Control of pigweeds in the High Plains area of Texas and Oklahoma may not be satisfactory with this product.

^{***}Not registered for control of muskthistle in CA.

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.

PLANTBACK RESTRICTIONS							
Crop	Crop Corn Sorghum Small Grains Soybeans All Other Crops						
Days Following Last Application	7-14	29	29	15* 30**	30***		

Maximum of 3.8 ounces (0.5 lb a.e.) / acre per preplant 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.

CROP SPECIFIC USE DIRECTIONS APPLES, PEARS, STONE FRUIT AND NUT ORCHARDS

WEEDS IN CROPS	AMOUNT OF OPTI-AMINE® PER ACRE	USE DIRECTIONS
Annual Broadleaf Weeds	3 pints	For control of weeds on the orchard floor, apply using coarse sprays and low pres- sure 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. DO NOT USE IN CALIFORNIA.

RESTRICTIONS AND LIMITATIONS FOR USE IN APPLES, PEARS, STONE FRUIT AND NUT ORCHARDS

- . Do not apply to bare ground as injury may result.
- Do not apply immediately before irrigation and withhold irrigation for 2 days before and for 3 days after treatment.
- . Do not allow spray to drift onto or contact foliage, fruit stems, and trunks of trees or exposed roots as injury may result.
- . Do not apply to newly established or young orchards. Trees must be at least 1 year old and in vigorous condition.
- · Do not apply during bloom.
- Do not cut orchard floor forage for harvest within 7 days of application.
- Do not make more than 2 applications per year. Do not harvest stone fruit within 40 days of application.
- Do not harvest nuts within 60 days of application.
- Do not harvest apples or pears within 14 days of application.
- For apples and pears, and stone fruits, allow at least 75 days between applications.
- · For tree nuts, allow at least 30 days between applications.

FILBERTS

WEEDS IN CROPS	AMOUNT OF OPTI-AMINE® PER ACRE	USE DIRECTIONS
Sucker Control	•	Apply in 100 gallons of water per acre. Spray to runoff when suckers are 6 to 9 inches tall. Spray when needed, from April through August. Use large orifice nozzles and low tank pressure (20 to 30 psi) to produce large droplet size.

RESTRICTIONS AND LIMITATIONS: FILBERTS

- · Preharvest Interval (PHI) 45 days.
- Minimum of 30 days between applications.
- · Limited to 4 applications per year.
- Maximum 33 ounces per 100 gallons of spray solution per application.

^{**} Maximum of 7.6 ounces (1 lb a.e.) / acre per preplant application. *** 30 days for residue tolerance, under normal conditions any crop may be planted without risk of injury after 90 days.

ASPARAGUS

APPLICATION TIMING	AMOUNT OF OPTI-AMINE⊗ PER ACRE	USE DIRECTIONS
Annual, biennial and perennial broadleaf weeds	3 to 4 pints	Apply in the spring on actively growing weeds. Ground Application: Apply in 50 to 60 gallons of water per acre. Aerial Application: Apply in 12 gallons of water per acre. Post-harvest spraying should be only by ground application using drop nozzles to avoid spraying the fern. If asparagus spears are present, treat immediately after cutting. Spears contacted by the spray may be malformed and off-flavored. If spears are malformed by spray, cut immediately and discard.

RESTRICTIONS AND LIMITATIONS FOR ASPARAGUS

- · Limited to two applications per crop cycle.
- Maximum of 4 pints (2.0 lb. a.e.) per acre per application.
- · Minimum of 30 days between applications.
- (PHI) Do not harvest within 30 days of application.
- OPTI-AMINE contains 3.8 pounds a.e. of 2,4-D per gallon. When tank mixing with products that contain 2,4-D, do not exceed combined total of 4.0 pounds of a.e. per acre per year.

BLUEBERRIES

High Bush Berries (Vegetative Strips between Rows) For use only in the states of MA, NJ, OR, WA and WI

APPLICATION TIMING	AMOUNT OF OPTI-AMINE® PER ACRE	USE DIRECTIONS
First Application - Spring If necessary, second application - After Harvest	3.0 pints	High Bush Berries (Vegetative Strips between Rows) Broadleaf weeds (Broadleaf dock, Canada thistle, Dandelion, Spotted catsear) Apply 3 pints of OPTI-AMINE® in 50 gallons of water per acre using ground equipment only. The first application should be made in the spring as a direct, shielded spray to the vegetative strip between blueberry rows, avoiding contact with the blueberry plant foliage. If necessary, a second application of OPTI-AMINE® at 3 pints in 50 gallons of water per acre may be made after harvest to control regrowth of broadleaf weeds.

RESTRICTIONS FOR USE ON BLUEBERRIES

- The pre-harvest interval (PHI) is 30 days.
- · Limited to 2 applications per year.
- Do not exceed 3.0 pints (1.4 lbs a.e.) per acre per application.
- Do not exceed 6.0 pints (2.8 lbs a.e.) per acre per year.
- **OPTI-AMINE**® contains 3.8 pounds a.e. of 2,4-D per gallon. When tank mixing with products that contain 2,4-D, do not exceed a combined total of 2.8 pounds of a.e. per acre per year.
- · Do not apply through any type of irrigation system.
- Do not apply by aerial application.
- Do not apply in or near greenhouses.
- Do not apply if the temperature is 65 degrees or higher, to avoid injury to blueberry plants.
- Do not allow pesticide to drip or touch blueberry plants in the growing or dormant period. Plants contacted by this
 product may be killed or suffer significant injury resulting in grade or yield loss.

PRECAUTIONS FOR USE ON BLUEBERRIES

- 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 ON BLUEBERRIES.
- · For optimum herbicide performance, mowing between rows for at least 7 days before or after the application is not advised.
- Soil residue of this product may temporarily inhibit seed germination and plant growth.

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CEREAL GRAINS Barley, Millet, Rye, Triticale, Wheat

barrey, winet, riye, mitoale, wheat				
WEEDS IN CROPS	AMOUNT OF OPTI-AMINE® PER ACRE	USE DIRECTIONS		
Not underseeded with legumes Postemergence Annual and biennial broadleaf weeds Perennial broadleaf weeds	1/2 to 2 pints* 1 to 2 pints*	Apply after grain is well tillered (usually about 4 to 8 inches high). Do not spray grain in the boot to dough stage.		
Underseeded with legumes	1-1/4 to 1/2 pints*	Apply after grain is 8 inches tall. Do not spray grain in boot to dough stage. Do not spray alfalfa or sweet clover unless the infestation is severe and injury to these legumes can be tolerated.		
Emergency weed control in Triticale, Wheat Perennial broadleaf weeds	2 1/2 pints	Apply when weeds are approaching bud stage, after the grain dough stage. Do not spray during the boot to dough stage. The 3 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.		

*Use the lower rate if small annual and biennial weeds are the major problem. Use the higher rate if perennial weeds or annual and biennial weeds are present which are in the hard-to-kill categories as determined by local experience. The higher rates increase the risk of grain injury and should be used only where the weed control problem justifies the grain damage risk. Do not apply OPTI-AMINE® to grain in the seedling stage.

RESTRICTIONS AND LIMITATIONS FOR USE ON CEREAL GRAINS

- For aerial application on grain, apply **OPTI-AMINE**_® in 3 to 10 gallons of water per acre.
- For ground apply product in a minimum of 10 gallons of water per acre for proper spray coverage.
- Do not permit dairy animals or meat animals being finished for slaughter to forage treated grain fields within 2 weeks after treatment.
- Do not feed treated straw to livestock if an emergency treatment as described above is applied.

• Postemergence:

- · Limited to one application per crop cycle.
- · Maximum of 42 ounces per acre per application.

Preharvest:

- · Limited to one application to crop cycle. Maximum of 16 ounces per acre per application.
 Preharvest interval (PHI) is 14 days.
- · Limited to 58 ounces per acre per crop cycle.
 - CEREAL GRAINS (Not Underseeded with a Legume) Oats

WEEDS IN CROPS	AMOUNT OF OPTI-AMINE® PER ACRE* (Average Conditions)	USE DIRECTIONS
Spring Planted Oats	1/2 to 2 pints*	Apply in sufficient water to give good coverage. Apply after the fully tillered stage, except during the boot to dough stage. Note: Oats are less tolerant to 2,4-D than wheat or barley and more likely to be injured.
Fall Planted Oats	1 to 1-1/2 pints	Apply after full tillering but before early boot stage. Some difficult weeds may require higher rates of 1/2 to 5/6 pint 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.
Preharvest	1 pint	Apply with listed amount of water per acre when grains are in the hard dough stage to control large weeds that may interfere with harvest. Best results will be obtained when soil moisture is sufficient to cause succulent weed growth.

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

(continued)

CEREAL GRAINS (Not Underseeded with a Legume) Oats (cont.)

RESTRICTIONS AND LIMITATIONS FOR USE ON CEREAL GRAINS (Not Underseeded with a Legume) (Oats)

- The higher rates increase the risk of grain injury and should be used only where the weed control problem justifies the grain damage risk.
- Apply OPTI-AMINE® in sufficient water for adequate coverage.
- Do not permit dairy animals or meat animals being finished for slaughter to forage treated grain fields within 2 weeks after treatment.
- · Do not feed treated straw to livestock.
- Postemergence:
 - · Limited to one application per crop cycle.
- Maximum of 42 ounces per acre per application.
- Preharvest:
 - · Limited to one application per crop cycle.
- Maximum of 11.4 ounces per acre per application.
 Preharvest interval (PHI) is 14 days.
- Limited to 58 ounces per acre per crop cycle.

CORN AND SORGHUM

WEEDS IN CROPS	AMOUNT OF OPTI-AMINE® PER ACRE	USE DIRECTIONS
CORN (Field and Pop) Preplant	1 to 2 pints	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 less susceptible weeds or cover crops such as alfalfa.
Preemergence	2 pints	Apply 3 to 5 days after planting but before corn emerges. Do not use on light, sandy soils or where soil moisture is low.
Postemergence Annual broadleaf weeds Perennial broadleaf weeds	1/2 to 1 pint 1 to 1-1/2 pints	Apply when weeds are small and corn is less than 8 inches tall (to top of canopy). When corn is over 8 inches tall, use drop nozzles and keep spray off foliage. Treat perennial weeds when they are in the bud to bloom stage. Do not spray corn in the tassel to dough stage. Corn treated with 2,4-D may become temporarily brittle. Winds or cultivation may cause stalk breakage during the period of time when the corn is brittle.
CORN (Sweet) Preplant	1 to 2 pints	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 less susceptible weeds or cover crops such as alfalfa.
Preemergence	2 pints	Apply 3 to 5 days after planting but before corn emerges. Do not use on light, sandy soils or where soil moisture is low.
Postemergence Annual broadleaf weeds Perennial broadleaf weeds	1/2 to 1 pint 1 to 1-1/2 pints	Apply when weeds are small and corn is less than 8 inches tall (to top of canopy). When corn is over 8 inches tall, use drop nozzles and keep spray off foliage. Treat perennial weeds when they are in the bud to bloom stage. Do not spray corn in the tassel to dough stage. Corn treated with 2,4-D may become temporarily brittle.
		Winds or cultivation may cause stalk breakage during the period of time when the corn is brittle.
Grain Sorghum (Milo)	1 pint	Apply when sorghum is 6 to 15 inches tall. If sorghum is taller than 8 inches to top of the canopy, use drop nozzles and keep spray off the foliage. Do not treat during the boot, flowering or dough stage.

(continued)

CORN AND SORGHUM (cont.)

RESTRICTIONS AND LIMITATIONS FOR USE ON CORN AND SORGHUM

- · Corn (Field and Pop):
- Preharvest Interval (PHI) is 7 days.
- o Do not use treated crop as fodder for 7 days following application.
- Maximum Use rate per acre per crop cycle is 100 ounces.
- Preplant or Preemergence:
- Limited to one application per crop cycle.
- Maximum of 33 ounces per acre per application.
- Postemergence:
- Limited to one application per crop cycle.
- Maximum of 16 ounces per acre per application.
- Preharvest:
 - Limited to one application per crop cycle.
- Maximum of 50 ounces per acre per application.
- · Corn (Sweet):
- o Preharvest Interval (PHI) is 45 days.
- o Do not use treated crop as fodder for 7 days following application.
- Minimum of 21 days between applications.
- Maximum Use rate per acre per crop cycle is 50 ounces.
- Preplant or Preemergence:
 - Limited to one application per crop cycle.
 - Maximum of 33 ounces per acre per application.
- Postemergence:
 - Limited to one application per crop cycle.
 - Maximum of 16 ounces per acre per application.
- · Sorghum (milo):
 - 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 33 ounces per acre per application.

CRANBERRIES For Control of Tall Weeds in Cranberry Bogs For use only in the states of MA, NJ, OR, WA and WI

APPLICATION TIMING	AMOUNT OF OPTI-AMINE® PER ACRE	USE DIRECTIONS		
Best results when used in late June and July.	2.4 pints	For Control of Tall Weeds in Cranberry Bogs Apply with a wooden frame or similar device, shaped like a hockey stick, with its lower member wrapped with several thicknesses of Turkish toweling (or other suitable material). Apply by soaking the toweling in one part OPTI-AMINE₀ to two parts water. Then with swabbed portion of the stick horizontal, wave left and right above the cranberry vines, wiping small quantities of the herbicide onto tall weeds above the crop level.		

RESTRICTIONS FOR USE ON CRANBERRIES

- The pre-harvest interval (PHI) is 30 days.
- Limited to 2 application per year.
 Do not exceed 2.4 pints (1.2 lbs a.e.) per acre per application.
- OPTI-AMINE⊚ contains 3.8 pounds a.e. of 2,4-D per gallon. When tank mixing with products that contain 2,4-D, do not exceed a combined total of 1.2 pounds of a.e. per acre per year.
- · Do not apply through any type of irrigation system.
- Do not apply by aerial application.
- Do not allow pesticide to drip or touch cranberry vines.

Precaution: 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 ON CRANBERRIES.

GRAPE VINEYARDS

Established at least 3 years to control Field Bindweed (Morning Glory), Canada Thistle and other 2,4-D susceptible broadleaf weeds.

3 - 3,,,				
APPLICATION TIMING	AMOUNT OF OPTI-AMINE® PER ACRE	USE DIRECTIONS		
Apply when weeds are in the bud to early bloom stage and growing vigorously. Apply after shatter following bloom and before grape shoots reach the ground or during dormant season.	·	Dilute in 10 to 100 gallons of water to treat one acre of ground to be sprayed. For band or spot treatment, calculate rates according to the actual portion of acre treated. Use a hooded boom and low pressure flooding nozzles to deliver coarse droplets.		

RESTRICTIONS FOR USE ON GRAPES

- For use only in California.
- . The pre-harvest interval (PHI) is 100 days.
- · Limited to 1 application per crop cycle.
- Maximum of 2.7 pints (1.36 lbs. a.e.) per acre per application.
- OPTI-AMINE® contains 3.8 pounds a.e. of 2,4-D per gallon. When tank mixing with products that contain 2,4-D, do not exceed a
 combined total of 1.36 pounds of a.e. per acre per year.

Precaution: Grapes are extremely sensitive to 2,4-D. Use a direct application so no 2,4-D contacts grape leaves and young shoots or stems

HOPS

WEEDS IN CROPS	AMOUNT OF OPTI-AMINE® PER ACRE	USE DIRECTIONS
Annual broadleaf weeds	1 pint	Make directed applications to the row middles.

RESTRICTIONS AND LIMITATIONS FOR HOPS:

- · Limited to three (3) applications per crop cycle.
- Maximum of 1 pint (0.5 lb. a.e.) per acre per application.
- Maximum of 3 pints (1.5 lb a.e.) per acre per crop cycle.
- Minimum of 30 days between applications.
- Preharvest Interval (PHI) is 28 days after application.
- OPTI-AMINE® contains 3.8 pounds a.e. of 2,4-D per gallon. When tank mixing with products that contain 2,4-D, do not exceed a combined total of 1.5 pounds of a.e. per acre per year.

RED POTATOES

(Only for Use on Red Potatoes Intended for Fresh Market)

APPLICATION TIMING	AMOUNT OF OPTI-AMINE® PER ACRE	USE DIRECTIONS
Postemergence	2.35 fl. oz.	Red Potatoes: Properly timed applications of this product generally enhance red color, aid in storage retention of red color, improve skin appearance, increase tuber set, and improve tuber size uniformity (fewer jumbos). Crop response may vary depending on variety, stress factors, and local conditions. Varieties with naturally dark red color generally benefit less from treatment.

RESTRICTIONS FOR USE ON RED POTATOES

- The preharvest interval (PHI) is 45 days.
- Minimum of 10 days between applications.
- Postemergence
- Limited to two postemergence applications per crop cycle.
- Maximum of 2.35 fluid ounces (0.07 lb 2,4-D a.e.) per acre per application.
- Apply 2.35 fluid ounces of OPTI-AMINE. per acre in 5 to 25 gallons of water using ground or aerial equipment. The specific spray
 volume selected should be sufficient for good coverage of plants.

(continued)

PRECAUTIONS FOR USE ON RED POTATOES (cont.)

- Make first application when potatoes are in the pre-bud stage (about 7 to 10 inches high) and make a second application about 10 to 14 days later.
- · Consult with Agricultural Extension Service and other qualified crop advisors for local use precautions.

RICE

WEEDS IN CROPS	AMOUNT OF OPTI-AMINE® PER ACRE	USE DIRECTIONS
Preplant	1 to 2 pints	Apply four or more weeks prior to planting rice. DO NOT USE IN CALIFORNIA.
Postemergence	1 to 2-1/2 pints	Apply when rice is in the late tillering stage of development at the time of first joint development. Do not apply after panicle initiation, after rice internodes exceed one-half inch, at early seedling, early panicle, boot or heading stages. Consult local university or Agricultural Extension Service specialists for more specific information on rates and timing of application. DO NOT USE IN CALIFORNIA.

RESTRICTIONS AND LIMITATIONS FOR USE IN RICE

- Preharvest Interval (PHI) is 60 days.
- Do not apply more than a total of 50 ounces of **OPTI-AMINE**® to rice per crop cycle.
- Preplant:
 - · Limited to one application per crop cycle.
 - Maximum of 33 ounces per acre per application.
- Postemergence:
 - · Limited to one application per crop cycle.
 - Maximum of 50 ounces per acre per application.
- Do not use on rice in California without an approved Supplemental Label allowing the use.

WILD RICE

(For Use In Minnesota Only)

WEEDS IN CROP	AMOUNT OF OPTI-AMINE® PER ACRE	USE DIRECTIONS
Common water plantain		Broadcast in 4 to 10 gallons total spray volume. Apply after water plantain 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 USE IN WILD RICE

- 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 pre-notify 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 per acre of 2,4-D Amine 4 (0.25 lb. a.e./A) per use season.
- OPTI-AMINE contains 3.8 pounds a.e. of 2,4-D per gallon. When tank mixing with products that contain 2,4-D, do not exceed a combined total of 0.25 pounds of a.e. per acre per year.
- (PHI) Do not harvest within 60 days of application.

SOYBEANS (Preplant Only)

WEEDS IN CROPS	AMOUNT OF OPTI-AMINE® PER ACRE	USE DIRECTIONS
Postemergence	3/4 to 1 pint	Apply not less than 15 days prior to planting soybeans, when weeds are small and actively growing. Use the higher rate on larger weeds and when perennials are present.
	1 to 2 pints	Apply not less than 30 days prior to planting soybeans, when weeds are actively growing.
		In addition to those weeds found on the GENERAL WEED LIST, OPTI-AMINEs will suppress or control the following broadleaf weeds frequently encountered in reduced tillage soybean production systems: alfalfa*, bullnettle, smallflowered bittercress, Carolina geranium, smallflowered buttercup, common and rough cinquefoil, red clover*, horseweed or marestail, mousetail, wild mustard, field pennycress, cutleaf evening primrose, common purslane, speedwell, velvetleaf, and Virginia copperleaf*. These weeds are only partially controlled. Apply no more than 2.0 pints of OPTI-AMINEs in one season prior to planting soybeans. After applying, plant soybean seed as deep as practical or at least 1-1/2 to 2 inches deep. Adjust the planter press wheel, if necessary, to ensure that planted seed is completely covered. If desired, OPTI-AMINEs may be applied pre-plant to soybeans in tank mixtures with other herbicides such as Poast*, Poast Plus*, Roundup*, Roundup D-Pak*, Honcho*, Gramoxone Extra*, Prowl*, Pursuit Plus*, Scepter*, Scepter 70 DC, Squadron* and others that are registered for pre-plant soybean use. NOTE: Unacceptable injury to soybeans planted in fields previously treated with OPTI-AMINEs may occur and the extent of injury will depend on weather and agronomic factors such as the amount of weed vegetation and previous crop residue present that may be in effect between the time of application and the emergence of the soybean plant.

RESTRICTIONS AND LIMITATIONS FOR USE IN SOYBEANS (Preplant)

- Preplant:
 - · Preplant for Two (2) applications per crop cycle
 - Limited to 2 preplant applications per crop cycle.
 - Maximum of 16 ounces per acre per preplant application.
 - Apply not less than 30 days prior to planting soybeans.
 - Preplant for Single (1) application per crop cycle
 - Limited to 1 preplant application per crop cycle.
 - Maximum of 32 ounces per acre per preplant application.
 - Apply not less than 15 days prior to planting soybeans.
- Do not apply OPTI-AMINE® when weather conditions such as temperature, air inversions or wind favor drift from treated areas
 to susceptible plants.
- Do not apply OPTI-AMINE® prior to planting soybeans if you are not prepared to accept the results of soybean injury including
 possible loss of stand and yield.
- Do not replant fields treated with OPTI-AMINE
 in the same growing season with crops other than those labeled for 2,4-D preplant use.
- Do not mow or cultivate weeds prior to treating with OPTI-AMINE
 as poor control may result.
- Do not cut for feed treated hay, forage, or fodder or graze treated soybeans to livestock.
- Do not apply **OPTI-AMINE**® pre-plant to soybeans in fields having a coarse-textured soil where the percent organic matter is <1.0%.
- Only one application of **OPTI-AMINE**® may be made prior to planting soybeans per growing season.
- Do not feed treated hay, forage or fodder. Livestock should be restricted from feeding/grazing of treated cover crops.
- Not currently registered for use in California.

STRAWBERRIES (Established Planting Only) DO NOT USE IN CALIFORNIA OR FLORIDA

APPLICATION TIMING	AMOUNT OF OPTI-AMINE⊗ PER ACRE	USE DIRECTIONS
Established Strawberries Only Apply in early spring when strawberries are dormant or immediately after the last picking.	·	Apply in 25-50 gallons of water per acre.

RESTRICTIONS AND LIMITATIONS FOR STRAWBERRIES

- · Apply only in established strawberry plantings.
- · Apply in early spring when strawberries are dormant or immediately after the last picking.
- Limited to 1 application per crop cycle.
- Maximum of 3 pints (1.5 lb. a.e.) per acre per application.
- OPTI-AMINE® contains 3.8 pounds a.e. of 2,4-D per gallon. When tank mixing with products that contain 2,4-D, do not exceed a combined total of 1.5 pounds of a.e. per acre per year.

SUGARCANE

WEEDS IN CROPS	AMOUNT OF OPTI-AMINE® PER ACRE	USE DIRECTIONS	
Preemergence	4 pints	Apply before canes appear for control of emerged broadleaf weeds. DO NOT USE IN CALIFORNIA.	
Postemergence	1-1/2 to 4 pints	Apply after cane emerges and through layby. DO NOT USE IN CALIFORNIA.	

RESTRICTIONS AND LIMITATIONS FOR USE IN SUGARCANE

- Do not apply more than a total of 8 pints of OPTI-AMINE® to sugarcane per acre per crop cycle.
- Do not harvest cane prior to crop maturity.
- Pre-emergence:
- Limited to one application per crop cycle.
- Maximum of 4 pints per acre per application.
- Postemergence:
 - Limited to one application per crop cycle.
 - · Maximum of 4 pints per acre per application.

CONSERVATION RESERVE PROGRAM AREAS

WEEDS IN CROPS	AMOUNT OF OPTI-AMINE® PER ACRE	USE DIRECTIONS
Annual broadleaf weeds In young grasses In established grasses	½ to 1 pint ½ to 2 pints	Apply to actively growing annual broadleaf weeds. Use ½ to 1 pint when weeds are small; use higher rates on older weeds. Do not apply to young grasses with fewer than 6 leaves or prior to tillering, as excessive injury may result. Do not apply more than 1 pint until grasses are well established as excessive injury may result.
Biennial and perennial broadleaf weeds In established grasses	2 to 4 pints	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. Apply to actively growing weeds.

RESTRICTIONS AND LIMITATIONS FOR USE ON CONSERVATION RESERVE PROGRAM AREAS

- Use 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.

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ESTABLISHED GRASS PASTURES, RANGELAND

WEEDS IN CROPS	AMOUNT OF OPTI-AMINE® PER ACRE	USE DIRECTIONS
Annual broadleaf weeds	2 pints	Apply when weeds are small and actively growing and prior to bud stage. Spray while muskthistles or other biennial species are in the seedling to rosette stage and before flower stalks become apparent.
Biennial and perennial broadleaf weeds	2 to 4 pints	The lower rate can be used in the spring during rosette stage. Use the highest rate in the fall or after flower stalks have developed. Do not apply to newly areas. Until grass is well established. Do not apply to grass in the early boot through milk stage if grass seed production is desired. Bentgrass and legumes may be injured by this treatment.

RESTRICTIONS AND LIMITATIONS FOR USE IN PASTURES AND RANGELANDS

- Do not graze (dairy) cattle in treated areas for 7 days after application.
- Do not cut forage for hay within 30 days of application.
- Do not permit dairy animals or meat animals being finished for slaughter to forage treated fields within 3 days of slaughter.
- Postemergence:
 - Limited to 2 applications per year.
 - Maximum of 4 pints per acre per application.
- Minimum of 30 days between applications.
- If grass is to be cut for hay, agricultural use requirements for the worker protection standards are applicable.
- For program lands, such as the Conservation Reserve Program, consult the program rules to determine whether grass or hay
 may be used. The more restrictive requirements of the program rules or this label must be followed.
- For susceptible annual and biennial broadleaf weeds, do not exceed 2 pints (1.0 lb. a.e.)/acre per application. For moderately
 susceptible biennial and perennial broadleaf weeds, do not exceed 4 pints (2.0 lbs. a.e.)/acre per application. Spot treatment do
 not exceed 4 pints (2.0 lbs. a.e.)/acre.

FALLOWLAND (CROP STUBBLE ON IDLE LAND OR POST-HARVEST TO CROPS OR BETWEEN CROPS)

WEEDS IN CROPS	AMOUNT OF OPTI-AMINE® PER ACRE	USE DIRECTIONS
Annual broadleaf weeds	1 to 2 pints	Use the lower rate when weeds are small (2 to 3 inches tall) and actively growing. Use the higher rate on older and drought-stressed plants.
Biennial broadleaf weeds	2 to 4 pints	Spray when musk thistles or other biennial species are in the seedling to rosette stage and before flower stalks become apparent. The lower rate can be used in the spring during rosette stage. Use the highest rate in the fall or after flower stalks have developed.
Perennial broadleaf weeds	2 to 6 pints	Spray weed in the bud to bloom stage or while in good vegetative growth. Do not disturb treated areas for at least 2 weeks after treatment, or until tops are dead.
Wild garlic and onion in crop stubble	4 to 6 pints	Apply to new regrowth of wild garlic or onion which occurs in the fall following harvest of small grains, corn or grain sorghum.

RESTRICTIONS AND LIMITATIONS FOR USE IN FALLOWLAND (CROP STUBBLE ON IDLE LAND OR POST-HARVEST TO CROPS OR BETWEEN CROPS)

- Only labeled crops can be planted within 30 days after application.
- Limited to 2 applications per year.
- Maximum of 4 pints per acre per application.
- . Minimum of 30 days between applications.

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TURF GROWN FOR SEED OR SOD

WEEDS IN CROPS	AMOUNT OF OPTI-AMINE® PER ACRE	USE DIRECTIONS
Annual and perennial broadleaf weeds	·	Apply to established stands in spring from tiller to early boot stage. Do not spray in boot stage. New spring seedlings may be treated with the lower rate after grass seedlings have at least 5 leaves. Perennial weed regrowth may be treated in the fall.

RESTRICTIONS AND LIMITATIONS FOR USE ON TURF GROWN FOR SEED OR SOD

- Do not graze dairy animals or cut forage for hay within 7 days of application.
- Limited to 2 applications per year.
- · Maximum of 4 pints per application.
- . Minimum of 21 days between applications.

NON-CROPLAND

Such as Fencerows, Hedgerows, Roadsides, Drainage Ditches, Rights-of-Way, **Utility Power Lines, Railroads**

WEEDS IN CROPS	AMOUNT OF OPTI-AMINE® PER ACRE	USE DIRECTIONS
Annual broadleaf weeds	2 to 4 pints	Treat when weeds are young and actively growing. Perennial
Biennial and perennial broadleaf weeds	4 pints	weeds should be near the bud stage but not flowering at application. Do not use on susceptible southern grasses such as St. Augustine. Do not apply to newly seeded areas until grass is well established. Bentgrass, clover, legumes and dichondria may be injured by this treatment.
Postemergence (Woody Plants)	4 to 6 pints	To control woody plants susceptible to 2,4-D, such as alder, buckbrush, elderberry, sumac, and willow on non-crop areas, use 2 to 3 quarts of OPTI-AMINEs 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 re-treatment next season.

RESTRICTIONS AND LIMITATIONS FOR USE ON NON-CROPLAND

- · Postemergence (annual and perennial weeds):
 - · Limited to 2 applications per year.
- Maximum of 4 pints per acre per application.
- Minimum of 30 days between applications.
- · Postemergence (Woody Plants):
- Limited to 1 application per year.
- Maximum of 8 pints per acre per year.
- Do not graze dairy animals for 7 days following application.
- · Use sufficient spray volume for thorough and uniform coverage.
- 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.

SPOT TREATMENT IN NON-CROP AREAS
Mix 2 to 3 fluid ounces of OPTI-AMINE₀ in 3 gallons of water. Wet all weeds and stems thoroughly. For best results, treat when weeds are actively growing.

ORNAMENTAL TURF AREAS Golf Courses, Cemeteries, Parks, Airfields, Roadsides, Sports fields, Turfgrass, Lawns, Vacant Lots

WEEDS IN CROPS	AMOUNT OF OPTI-AMINE® PER ACRE	USE DIRECTIONS
Annual broadleaf weeds	2 to 3 pints	Treat when weeds are young and actively growing. Perennial weeds should be near the bud stage, but not flowering at application. Do not use on susceptible southern grass-
Biennial and perennial broadleaf weeds	3 pints	es such as St. Augustine. Do not apply to newly seeded area until grass is well lished. Bentgrass, clover, legumes and dichondria may be injured by this treatm

RESTRICTIONS AND LIMITATIONS: ORNAMENTAL TURF AREAS (Golf Courses, Cemeteries, Parks, Sports fields, Turfgrass, Lawns)

- Postemergence (annual and perennial weeds):
- · Limited to 2 applications per year.
- Maximum of 3 pints per acre per application.
- Maximum seasonal rate is 100 ounces per acre, excluding spot treatments.
- · Use sufficient spray volume for thorough and uniform coverage.
- Do not allow people (other than the applicator) or pets on treatment area during application.
- Do not enter treatment areas until sprays have dried.

FORESTRY USES

Forest site preparation, forest roadsides, brush control, Poplar / Cottonwood for pulp, established conifer release, including Christmas trees and reforestation areas

TREATMENT SITE METHOD OF APPLICATION	AMOUNT OF OPTI-AMINE® PER ACRE	USE DIRECTIONS	
Annual broadleaf weeds	2 to 4 pints	Apply when weeds are small and growing actively before the bud stage. Apply wher biennial and perennial species are in the seedling to rosette stage and before flower stalks appear. For difficult to control perennial broadleaf weeds and woody species use up to 8 pints of OPTI-AMINE ® and 1 to 4 quarts of Tahoe® 3A herbicide per acre For conifer release, make application in early spring before budbreak of conifers wher weeds are small and actively growing.	
Biennial and perennial broadleaf weeds and susceptible woody plants	4 to 8 pints		
Spot Treatment to control broadleaf weeds	See Use Directions in Spot Treatment Section	Note: To control broadleaf weeds in small areas with a hand sprayer, use an application rate equivalent to the broadcast rate listed for this treatment site and spray to thoroughly wet all foliage. See rate conversion table and instructions for "Spot Treatment" and "Hand-Held Sprayers" for use of hand-held sprayers.	
Poplar / Cottonwood trees grown for pulp - broadleaf weed control	1/2 pint to 3 pints	Applied through wick applicators or conventional ground sprayers. (Excluding irrigation systems) Do not allow this product to contact leaves or green bark of the tree. Apply in enough water to provide uniform coverage prior to or after planting of Poplar/ Cottonwood trees. Application during warm weather is preferred. Apply when weeds are actively growing, preferably before bud stage. Repeat treatment may be necessary for less susceptible weeds; re-apply as needed. Accord® may be mixed with this product to increase weed control. Follow both labels to determine correct rates. Two quarts or more of a spreader - activator per 100 gallons of spray solution may be added to improve herbicide performance.	
Conifer Release: Species such as white pine, ponderosa pine, jack pine, red pine, black spruce, white spruce, red spruce, and balsam fir	3 to 8 pints	To control competing hardwood species such as alder, aspen, birch, hazel, and willow, apply from mild to late summer when growth of conifer trees has hardened off and woody plants are still actively growing. Apply with ground or air equipment, using sufficient spray volume to ensure complete coverage. Because this treatment may cause occasional conifer injury. Do not apply if such injury cannot be tolerated.	

(continued)

FORESTRY USES (cont.)

Forest site preparation, forest roadsides, brush control, Poplar / Cottonwood for pulp, established conifer release, including Christmas trees and reforestation areas

TREATMENT SITE METHOD OF APPLICATION	AMOUNT OF OPTI-AMINE® PER ACRE	USE DIRECTIONS
Directed Spray: Conifer plantations including pine	8 pints / 100 gallons of spray	Apply when brush or weeds are actively growing by directing the spray so as to avoid contact with conifer foliage and injurious amounts of spray. Apply in oil, oil-water, or water carrier in a spray volume of 10 to 100 gallons per acre.
Basal Spray May also be used in rangeland, pastures, and noncropland	17 pints / 100 gallons of spray or	Thoroughly wet the base and root collar of all stems until the spray begins to accumulate around the root collar at the ground line. Wetting stems with the mixture may also aid in control.
Surface of Cut Stumps	2.6 fl oz / 1 gallon of spray	May also be used in rangeland, pastures, and noncropland. Apply as soon as possible after cutting trees. Thoroughly soak the entire stump with the 2,4-D mixture including cut surface, bark and exposed roots.
Frill and Girdle	or spray	May also be used in rangeland, pastures, and noncropland. Cut frills (overlapping V-shaped notched cut downward through the bark in a continuous ring around the base of the tree) using an axe or other suitable tool. Saturate the freshly cut frills with the 2,4-D mixture.
Tree Injection Application May also be used in rangeland, pastures, and noncropland	1 to 2 ml per injection site	To control and prevent resprouting of unwanted hardwood trees such as elm, hickory, oak and sweetgum forests and other non-crop areas, apply by injecting at a rate of 1 ml of undituted OPTI-AMINE _☉ per inch of trunk diameter as measured at breast height (DBH), approximately 4 1/2 ft. above the ground. Injection sites, however, should be as close to the root collar as possible and the injection bit must penetrate the inner bark. For resistant species such as hickory, injections should overlap. Maples should not be treated during the spring sap flow. For hard to control species such as ash, alder, aspen, birch, blackgum, cherry, tulip poplar, maple, and dogwood use 2 ml of undiluted OPTI-AMINE _☉ per injection site or double the number of 1 ml injections. For best results, injections should be made during the growing season, May 15th through October 15th. For Dilute Injection: Mix 1 gallon of product in 19 gallons of water for dilute injections. For Concentrate Injections: Use 1 to 2 ml of concentrate OPTI-AMINE _☉ per injection. Note: No Worker Protection Standard workers entry restrictions or worker notification requirements apply when this product is directly.

RESTRICTIONS AND LIMITATIONS FOR FORESTRY USE

- Do not make more than one broadcast application per year.
- For broadcast applications, do not apply more than 8 pints (4 lbs. ae) per acre per 12-month period.
- Basal spray, Cut Surface Stumps, and Frill:
 Limited to one application per year.

 - Maximum of 2.0 ml of 8.0 lbs a.e. per gallons of spray solution.
- · Injections:
- Limit of one basal spray or cut surface application per year.
 Maximum of 2.0 ml of 4.0 lbs a.e. per gallon formulation per injection site.

BIOENERGY CROPS - GRASSES

WEED CONTROL IN GIANT REEDGRASS (Arundo donax), SWITCHGRASS (Panicum virgatum), GIANT MISCANTHUS (Miscanthus x giganteus) AND OTHER NON-FOOD PERENNIAL GRASS BIOENERGY CROPS.

USE INSTRUCTIONS

This product may be applied for broadleaf weed control in giant reedgrass (Arundo donax), switchgrass (Panicum virgatum) giant Miscanthus (Miscanthus x giganteus) and other non-food perennial grass bioenergy crops.

For perennial grasses, apply no earlier than 4-leaf stage. Apply ½ to 2 pints per acre to seedling grasses with ground or air equipment. A rate of 1 to 4 pints per acre should be used when grasses are well established.

RESTRICTIONS AND LIMITATIONS

- Limited to 2 broadcast applications per year.
- Maximum of 4 pints (2.0 lb. a.e.) per acre per application.
- Minimum of 30 days between applications.
- Apply by air or ground equipment in sufficient gallonage to obtain adequate coverage. Minimum of 2 gallons of water per acre for aerial application and 10 or more for ground application.
- Do not spray immediately before irrigation and withhold above-ground irrigation for 3 days after application.
- Treated plantings not to be consumed by human or animal.

BIOEMERGY CROPS - TREES WEED CONTROL IN HYBRID POPLAR TREES, COTTONWOOD TREES AND WILLOW TREES GROWN AS BIOEMERGY CROPS

USE INSTRUCTIONS

This product may be used in hybrid poplar trees, cottonwood trees and willow trees grown as bioenergy crops. Application during warm weather is preferred. Apply when weeds are actively growing, preferably before bud stage. Repeat treatment may be necessary for less susceptible weeds; re-apply as needed.

For hybrid poplar, cottonwood and willow make application prior to or after planting. For ground spray equipment, use ½ to 3 pints per acre. Apply 1 to 4 pints per acre using wick type applicators that treat weeds directly. Crop injury may result if the wick, wick solution or spray solution contact leaves or green bark of the crop trees.

NOTE: Extreme care should be exercised to avoid contact of the spray solution, spray, drift, or mist with tree foliage, green bark of trucks, stems or exposed roots of the poplar, cottonwood and willow trees. Contact of the spray solution to these parts can result in serious damage. Even when using extreme care in application of this product, 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.

TANK MIXTURES

This product may be tank mixed with Credit 41 Herbicide (EPA Reg. No. 71368-20) to provide broader spectrum of control.

RESTRICTIONS AND LIMITATIONS

- · Limited to 1 broadcast applications per year.
- Maximum of 4 pints (2.0 lb. a.e.) per acre per application.
- . Minimum of 30 days between applications.
- · Use sufficient spray volume for thorough and uniform coverage, but a minimum of 10 gallons per acre for broadcast application.
- Do not apply this product by air for use of weed control in hybrid poplar tree, cottonwood trees and willow tress grown as bioenergy crops.
- Do not use this product in or near greenhouses, for use of weed control in hybrid poplar tree, cottonwood trees and willow trees grown as bioenergy crops.
- Do not spray immediately before irrigation and withhold above-ground irrigation for 3 days after application.
- · Treated plantings not to be consumed by human or animal.

WEED 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

WEEDS IN CROPS	AMOUNT OF OPTI-AMINE® PER ACRE	USE DIRECTIONS				
For control of annual and perennial broadleaf weeds	1 to 2 quarts per acre	Apply in approximately 20 to 100 gallons 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.				
For woody brush and patches of perennial broadleaf weeds		Mix 4 quarts in 150 gallons of water. Wet foliage thoroughly, using approximately 1 gallon of spray solution per square rod.				

APPLICATION GUIDELINES:

Spraying Instructions: Low pressure (10 to 40 ps) 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.

RESTRICTIONS AND LIMITATIONS: WEED AND BRUSH ON IRRIGATION CANAL DITCHBANKS

- Postemergence:
- Limited to 2 applications per season.
- Maximum of 4 pints per 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.

Average Width (ft.) x Average Depth (ft.) x Average Velocity (ft. per sec.) = CFS

- Note: For ditch bank weeds:
 - Do not allow boom spray to be directed onto water surface.
- Do not spray across stream to opposite bank.
- 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 the water.

AQUATIC WEED CONTROL

Notice to Applicators: Before 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.

Fish breathe oxygen in the water and a water/oxygen ratio must be maintained. Decaying weeds use up oxygen. To avoid fish kill from decaying plant material, do not treat more than one half the lake or pond at on time. For large bodies of weed infested waters, leave buffer strips of at least 100 feet wide and delay treatment of these strips for 4 to 5 weeks or until the dead vegetation has decomposed.

Ground or Surface Application: Do not apply when wind speeds are at or above 10 mph.

Air Application: Do not apply when wind speeds are at or above 5 mph. The wind speed restrictions do not apply to subsurface applications used in weed control programs.

Delay the use of treated waters for irrigation for three weeks after treatment unless an approved assay shows that the water does not contain more than 0.1 ppm 2,4-D acid. Do not treat irrigation ditches in areas where water will be used to overhead sprinkler irrigate susceptible crops especially grapes, tomatoes and cotton.

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 acid.

FOR AQUATIC WEEDS IN LAKES, PONDS, RESERVOIRS, MARSHES, BAYOUS, DRAINAGE DITCHES, CANALS, AND RIV-ERS AND STREAMS THAT ARE QUIESCENT OR SLOW MOVING: Use 2-½ to 4-½ pints of OPTI-AMINE® 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. Perennial and other hard-to-control weeds may require a repeat application to give adequate control. WATER HYACINTH (Eichornia crassipe): For control of actively growing plants with surface and air applications, use 4 to 8 pints per acre

Spray the weed mass only. Use 8 pints when plants are matured or when the weed mass is dense. Repeat as necessary to kill regrowth and hyacinth plants missed in the previous application.

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 gals./A 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 DIRECTASPRATM operation, use 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 1.0 gallon per acre through standard boom systems with a minimum of 5 gallons of spray mix per acre. For MICROFOIL® drift control spray systems, apply in 12 to 15 gallons spray mix per acre.

WATER MILFOIL (Myriophyllum spicatum): For Eurasian Water Milfoil in programs conducted by the Tennessee Valley Authority in dams and reservoirs of the TVA system, OPTI-AMINE® will control Water Milfoil with surface, subsurface and air applications.

To control water milfoil when less than 5 gallons of concentrate per acre is used, dilute the concentrate with water to apply a minimum of 5 gallons of spray mix per acre. Do not treat within ½ 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.

Open Water Areas: To reduce contamination and prevent undue exposure to fish and other aquatic organisms, do not treat water areas that are not infested with aquatic weeds. Apply 2.5 to 10 gallons per acre. The higher rate is used in areas of greater water exchange. These areas may require a repeat application. For best results, apply in spring or early summer when milfoil starts to grow. The timing can be checked by sampling the lake bottom in areas heavily infested with weeds the year before.

Subsurface Application: Apply 2.5 to 10 gallons per acre as a concentrate directly into the water through boat mounted distribution systems.

Surface Application: Apply 2.5 to 10 gallons 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 2.5 to 10 gallons per acre through standard boom systems with a minimum of 5 gallons of spray mix per acre. For MICROFOIL® drift control spray systems, apply in 12 to 15 gallons spray mix per acre.

RESTRICTIONS AND LIMITATIONS: AQUATIC USES

- · Floating and Emergent Weeds
- Maximum of 8 pints per surface acre per application.
- · Limited to two (2) applications per season.
- Minimum 21 days between applications.
- · Spot treatments are permitted.
- Apply to emergent aquatic weeds in ponds, lakes, reservoirs, marshes, bayous, drainage ditches, non-irrigation canals, rivers and streams 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 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.
- 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 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.

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- 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 users. 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 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.

- 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 functional 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 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 3 days after 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 application of 2,4-D adjacent to water bodies with potable water intakes.
- Except as states above, there are no restrictions on using water from treated areas for swimming, fishing, water livestock or domestic purposes.

CONDITIONS OF SALE-LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES

Read the Conditions of Sale-Warranty and Limitations of Liability and Remedies before using this product. If the terms are not acceptable, return the product, unopened, and the full purchase price will be refunded.

The directions on this label are believed to be reliable and must be followed carefully. Insufficient control of pests and/or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions or the failure to follow the label directions or good application practices, all of which are beyond the control of Helena Agri-Enterprises, LLC (the "Company") or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. The Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the factors noted above which are beyond the control of the Company. To the extent consistent with applicable law, the Company makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law.

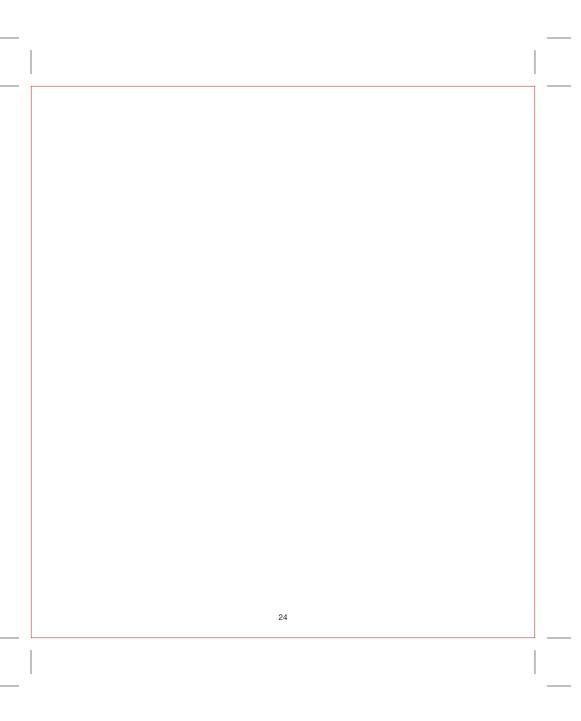
To the extent consistent with applicable law, the exclusive remedy against the Company for any cause of action relating to the handling or use of this product shall be limited to, at Helena Agri-Enterprises, LLC's election, one of the following:

- 1. Refund of the purchase price paid by buyer or user for product bought, or
- 2. Replacement of the product used

To the extent consistent with applicable law, the Company shall not be liable and any and all claims against the Company are waived for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income. The Company and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.

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GROUP 4 HERBICIDE



2.4-D AMINE HERBICIDE

ACTIVE INGREDIENT:	BY WT.
Dimethylamine Salt of 2,4-Dichlorophenoxyacetic Acid	46.7%
OTHER INGREDIENTS	<u>53.3%</u>
TOTAL	100.0%

Equivalent to 38.8% of 2,4-Dichlorophenoxyacetic acid or 3.8 lb/gal. Isomer specific by AOAC Method 6.275, 13th Ed, 1980.

DANGER PELIGRO

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

FIRST AID

IF IN EYES: Hold eyelid 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 eyes. Call a poison control center or doctor immediately for treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Have person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person.

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

IF INHALED: Move victim to fresh air. If not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.

HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency assistance call toll-free, 1-800-424-9300 (Chemtrec).

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

SEE INSIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Corrosive. Causes irreversible eye damage. Harmful if swallowed or absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

U.S. Patent #5,877,112 EPA REG. NO. 5905-501 EPA EST NO. 42750-M0-001 AD 091917HAE

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. PESTICIDE STORAGE: Protect from freezing. If stored below 32°F and crystals form, warm to 72°F for 24 hours, periodically rolling drum to reconstitute. 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 quidance. CONTAINER HANDLING: NONREFILLABLE METAL CONTAINER (EQUAL TO OR LESS THAN 5 GALLONS): 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. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. NONREFILLABLE METAL CONTAINER (GREATER THAN 5 GALLONS): 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. 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. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. NONREFILLABLE PLASTIC CONTAINER (EQUAL TO OR LESS THAN 5 GALLONS): 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 ¼ 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. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or incineration if allowed by state and local authorities. If burned, stay out of smoke. NONREFILLABLE PLASTIC CONTAINER (GREATER THAN 5 GALLONS): Do not reuse or refill this container. 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. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or incineration if allowed by state and local authorities. If burned, stay out of smoke. REFILLABLE CONTAINER: Refill this container with pesticide only Do not reuse this container for any other purpose. Prior to refilling, inspect thoroughly for damage such as cracks, punctures, abrasions, and damaged or worn-out threads on closure devices. Do not refill or transport damaged or leaking containers. Check for leaks after refilling and before transportation. 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 mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. If the container is not being refilled, return to the point of purchase or designated location.

Manufactured For HELENA AGRI-ENTERPRISES, LLC 225 SCHILLING BOULEVARD, SUITE 300 COLLIERVILLE, TENNESSEE 38017 U.S.A. • (901) 761-0050

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