

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

MAR 3 | 1994

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Nik Ramswick UNIVERSAL COOPERATIVES, INC. P. O. Box 460 - 7801 Metro Parkway Minneapolis, MN 55440

Subject:

Label Amendment Submission of 07/19/93 in Response to PR Notice 93-7

EPA Reg. No. 1386-43

2,4-D AMINE WEED KILLER

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling AND
- WITHIN one year from date of this acceptance.

Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,

Jim Tompkins Deputy Chief Registration Support Branch Registration Division (7505W)

Attachment

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division

Nik Ramswick UNIVERSAL COOPERATIVES INC P.O. BOX 460 7801 METRO PARKWAY MINNEAPOLIS MN 55440

Comment for: EPA Reg Nr.1386-43 2,4-D AMINE WEED KILLER

The following specific comments pertain to your WPS labeling submission concerning the product cited above:

EPA has determined that a "closed" mechanical transfer system is not required for 2,4-D products. In the personal protective equipment section of your amended labeling, you may revise the statement to read as follows:

CONTAINERS 5 GALLONS OR MORE: "A mechanical system (probe and pump) must be used for transferring the contents of this container. If the contents of a non-refillable pesticide container are emptied, the probe must be rinsed before removal. If the mechanical system is used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4)], the handler PPE requirements may be reduced or modified as specified in the WPS."

Add the following sentence to the paragraph on laundering PPE: "After each day of use, clothing or PPE must not be reused until it has been cleaned." Please refer to the special 2,4-D guidance issued by EPA on September 13, 1993 (page 4) for placement of the sentence.

Please conform with the special 2,4-D guidance issued by EPA on September 13, 1993 for adding WPS statements.

User Safety Recommendations must either be placed in a box or printed on the label in a contrasting color from surrounding text.

Add the following User Safety Recommendation to the label in the location shown in Section A on Part 1 of the Product Worksheet in Supplement Three-A to PR Notice 93-7: "Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing."

UNIVERSAL COOPERATIVES INC EPA Reg. Number: 1386-43 2,4-D AMINE WEED KILLER Application date: 07/19/93 Original Submission

Add the following User Safety Recommendation to the label in the location shown in Section A on Part I of the Product Worksheet in Supplement Three-A to PR Notice 93-7: "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."

The glove requirement for "applicators and other handlers" in the "Personal Protective Equipment" section on your proposed labeling is missing or incorrect. Remove the incorrect requirement (if any) and add "Waterproof gloves". The exact location is shown in Sections A and B on Part 1 of the Product Worksheet in Supplment Three-A to PR Notice 93-7.

The Agricultural Use Requirements section must be located in a clearly separate box on the product labeling -- with lines or other graphic indicators (such as contrasting color) to separate the section from the surrounding text.

Remove the statement "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." from its current position within the Agricultural Use Box and place it above the Agricultural Use Box.

The glove requirement for early entry in the Agricultural Use Requirements box on your proposed labeling is missing or incorrect. Remove the incorrect requirement (if any) and add "Waterproof gloves". The exact location is shown in Sections F and G on Part 2 of the Product Worksheet in Supplement Three-A to PR Notice 93-7.

The Non-Agricultural Use Requirements section must either be placed in a box or printed on the label in a contrasting color from the surrounding text.

Delete the crossed-out statements on your proposed label. They are redundant statements or phrases.

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

2,4-D Amine Weed Killer

KEEP OUT OF REACH OF CHILDREN CAUTION

See Side Panel For Additional Precautionary Statements

ACTIVE INGREDIENT:

Dimethylamine salt of

2,4-dichlorophenoxyacetic acid* 47.2%

INERT INGREDIENTS 52.8%

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.

Product 102

EPA Reg. No. 1386-43 EPA Est. No. 1386-0H-1

UNIVERSAL COOPERATIVES, INC., MINNEAPOLIS, MN 55440

BEST AVAILABLE COPY

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed. Avoid breathing spray mist. Avoid contact with skin, eyes, and clothing.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and Other Handlers Must Wear:

*Long-sleeved shirt and long pants

*Chemical-resistant gloves

*Shoes plus socks

*Protective eyewear

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

Engineering Controls Statements: A closed system - 1 7 (-) must be used for mixing and loading. The closed systems must be used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)]. The handler PPE requirements may be reduced or modified as specified in the WPS.

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User Safety Recommendations: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

STATEMENT OF PRACTICAL TREATMENT

If Swallowed: Contact a physician immediately Give victim one or two glasses of water and induce vomiting by louching the back of throat with a finger. Repeat until vomit fluid is clear, Do not induce vomiting or give anything by mouth to an unconscious person

n unconscious person

If on Sidn: Remove conteminated clothing-and-wash affected areas with soap and water. Do-not-reuse-conteminated washed: Get medical attention if irritation persists.

If he Eyes: Flush with water for at least 15 minutes. Call a physician immediately.

If Inhaled: Remove victim to fresh ar Apply respiration if indicated.

For Medical Emergency information call 1-00-228-5635, extension 138.

ENVIRONMENTAL HAZARDS

ENVIRONMENTAL HAZARDS

This product is toxic to aquatic invertebrates. Orlif or modif may adversity affect aquatic invertebrates and nontarget plants. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply directly to water except as specified on this label. Do not contaminate water when disposing of equipment washwaters. Do not contaminate water intended for irrigation or domestic purposes [(except as specifically recommended on this table) especially in areas where grapes, certion, hornstoes, or other susceptible crops are grown. Do not treat irrigation disches in areas where water will be used to overhead (sprinted) irrigate susceptible crops especially grapes, tomatoes, tobacco, and cotton.]. Do not apply when weather conditions lavor drift from target area.

Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D have been associated with mixing/floading and disposal sites. Caution should be exercised when handling 2,4-D patients as 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/floading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

DIRECTIONS FOR USE

BEST AVAILABLE COPY

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.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, Part 170. This Standard requirements for the protection of agricultural on farms, forests, nurseries, of agricultural and handlers greenhouses, pesticides. It contains requirements for training, notification, and emergency decontamination, assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) restricted-entry interval. and requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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:

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 farms. forests, plants on nurseries. greenhouses.

Do not apply this product in such a manner as to directly or through drift expose workers at either persons. The axial best to the such as also drive the such as a such ment of Practical Treatment from label)

Just ..

^{*}Coveralls

^{*}Chemical-resistant gloves

^{*}Shoes plus socks

^{*}Protective eyewear

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

2.4-D Amine Weed Killer will	full or control the following as we	il as many other nomous plants	s susceptible to 2,4 0
*AlfaNa	Coffeebean	Locoweed	Sheep Sorrel
Arrowhead	Common Mullein	*Mallow	Shepherdspurse
Artichoke	Creeping Jenny	Mexicanweed	*Smartweed
*Bindweed (Hedge,	Curty Indigo	Morningglory, Annual	Sowthistle
Field, European)	Candekon	Mustard	Stinkweed
Bitter Wintercress	*Dock	Parrotleather	Sumac
Bittercress, Smallflowered	*Dogbane	Pennycress, field	Sunflower
Borælder	Duckweed	Pennywort	Velvetleal
Buckhom	Elderberry	*Pegpergrass	Vetch, Harry
Bull Thistle	Evening Prinvose, Cutteal	Pigweed	Vegina Creeper
Bulinettle	*Goldenrod	Plantain	Waterhyacinth
Bulnesh	*Grownd by	Poison My	Waterkily
Burdock	Hemp	Pokeweed	Waterprimrose
Bur ragweed	Henbit	Povertyweed	Wild Carrot
Buttercup	"Heary Cress	Prickly Lettuce	"Wild Garlic
*Canada Thistle	Honevsucide	Puncturevine	Wild Lettuce
Catrip	Horseweed or Marestail	Pursiane	"Wild Onion
Chickweed	Indigo	Ragweed	Wild Radish
Chicory	*ironweed	Rušh	Willow
*Clover, Red	Jimsonweed	*Russian Thistle	Witchweed
Cocklebur, Common	Lambsquarters, Common	Sagebrush	

"These species may require repeated applications and/or use of the higher rate recommended on this product label even

under ideal conditions for application.

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

On not use in or near a greenminise.

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 fack 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 2,4-0 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 2,4-0 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 legimes, including white them, are usually damaged and, under some conditions, littled. Crops contacted by 2,4-0. Annine Whed Killer sprays or spray drift may be titled or suffer significant stand loss with extensive quality and yield reduction. Excessive amount of 2,4-dichlorophenoxyacetic acid in the soil may temporarily inhibit seed germination or class correctly exercise.

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

recise, grounding, and mand sprayer application should be used only when there is no danger of drift to susceptible crops. Many states have regulations concerning aeral application of 2,4-0 formulations. Consult local regulatory authorities before making such applications. Users should note that herbicide treatment of public water requires a permit from appropriate state agencies in most states. Your State Conservation Department of Game and Fish Continuission will aid you in securing a permit for your state PREPARATION OF SPHAY AND APPLICATIONS: Recommended equantities of this product should be added to water in the stray tank at time of application. Agitate or stir to assure a good modure 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 20 gallons of water per acre. For aerial application, apply in 1 to 5 gallons of water per acre. Always use the proper amount of 2,4-D Amme 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 droptets. 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 mits per acre. (3) by decreasing the pounds of pressure at the nozzle laps. (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.

CLEARING SPRAY EQUIPMENT: It is almost impossible to remove residues of 2,4-D from sprayers and spray equipment for 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 Wood Killer may be combined with some legald nitrogen fer-trizers. However, the compatibility of 2,4-D Amine with the fertilizer must be tested before combining in the spray tank

JAR TEST

Amban of 2,4-0 Aming to <u>200 to one</u> part of Liquid Herogen Perunder.			
2,4-D Amine	Level Tesspoons of 2,4-D Amine		
flate/ficre	Volume of 25 Gal./Rere	Volume of 100 Gal./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	
A Pirets	2 Teagnoons	1/2 Teacnone	

Transpoons

2 Teaspoons

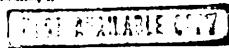
2 Teaspoons

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 apray volumes make appropriate changes in the ingredients of the compatibility test.

the compatibility test.

In a quart per add the appropriate amount of 2,4-0 Amine, is determined from the above chart, to one pint of liquid nitrogen fertilizer. Cover the jer and shalls it well. Observe the mixture after 5 invutes and again after 30 minutes. If the mixture does not bell up or form flattes, sludge, gets, oily films or tayers or other procipitates, then the tested combination is compatible. If precipitates form but the mixture can be resuppended with agitation, the combination may be used provided good agitation is minitalized throughout the mixture 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 2,4-0 Amine. (The 1/4 teaspoon is equivalent to 2 pints per 100 gallons of liquid nitrogen tertilizer.) If the mixture is still incompatible, DO NOT USE.

TANK MIXING SEQUENCE



Hank MIXING SEQUENCE

If the 2,4 D Amme/lerislater mixture is compatible without the use of a compatibility agent. Fill the spray tank with half the amount of ferbicer to be used. Make a pre-mix of 1 part of 2,4 D Amme and 4 parts water. Add the pre-mix to the spray tank, with apitation, and complete filling the tank with the ferbicer Apply immediately and commune agriculturing application. If a compatibility agent must be used, add it to the spray tank prior to adding the 2.4.0 Amme/water pre-mix follow all applicable recommendations and field application rates on the ferbicar and compatibility agent labeling as well as the 2.4.0 Amme labeling.

SMALL GRAIN CROPS (Wheat, Barley, Rye, Quits): See table for recommended use rates.

Spray when weeds are small after grains are well tillered (usually 4 to 8 inches tall), but before the boot stage. Bo not apply before the tiller stage not from early boot through milk stage. To control large weeds that will interfere with harvest or to suppress perennial weeds, prehamest finatiment can be applied when the grain is in the dough stage. Best results will be obtained when soil moisture is adequate for plant growth and weeds are growing well.

Spring Planted Quits: Apply in sufficient water to give good coverage. Apply after the fully litered stage, except during the hoof to drove stage.

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

EDMI Weather MOTE: Do not use on grain interpranted with legistres. Do not forage or graze treated grain field within 2 weeks after Reatment with 2,4-D. Do not feed treated straw to livestock

CORN

CORN

See table for recommended use rates.

Preplant: This product may be applied prior to planting corn to provide locar burn-down control of susceptible annual and perennial broadleal weeds and certain broadleal cover crops such as those listed on this label. To centrol emerged broadleal weed seedings or existing cover crops prior to planting corn, apply 1 to 2 pints per ace 7 to 14 days before planting. On not use on light, sandy soil, or whose soil moisture is inadequate for normal weed growth. Use high rate for centrol of less susceptible weeds or cover crops such as allatfa.

Presengence: Apply to soil anytime after planting but before corn enverges. Do not use on very light, sandy soil Emergence: Apply just as corn plants are burnaling growth.

Prest-emergence: Best results are usually obtained when weeds are small and corn is 4 to 16 inches tall. When corn is over 8 inches tall, use trop nozzles to less suray 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 or reduce the possibility of crop demage. Delay outhwishen for 8 to 10 days after application to reduce possibility of stalk breakage due to temporary brittleness caused by 2,4-0. Hybrid corn should be sprayed only if the cross or line is known to be tolerant to 2,4-0 treatment.

Pre-harvest: After the hard dough or denting stage, apply 1 to 2 pints per acre of 2,4-0 Amine by air or ground equipment to suppress perennial weeds, decrease weed seed production, and control tall weeds such as bindweed, cocklebur, dogbane, presonweed, ragweed, sunflower, vehetleal, and vines that interfere with harvesting. Do not forage or feed corn fodder to investock for 7 days following applicate

SORGHUM (MILD): See table for recommended 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 apply from flowering to 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 recommended dosage or after experience has shown the particular crosses or lines being grown to be tolerant to 2.4-D arealment FOR USE IN CROP RESIDUE MANAGEMENT SYSTEMS IN SQYBEANS (Proplant 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 tilage production systems. Apply only according to instructions given below.

applications to entergot works just to planning segment a grown in the applications of entergot works planning to instructions given below.

Do not use any bilage operations between herbicide application and planting of soybeans. Mixing Instructions: Compatible crop oil concentrates, agricultural surfactants and Muid Tertifizers approved for use on growing crops may be added to spray moture 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 Pracedures: Apply using air or ground equipment in a spray volume sufficient to provide uniform coverage weeds. Use 2 or more gallons of total spray volume per acre for aerial application and 10 or more nations per acre. for ground equipment

APPLICATION TIMING AND USE RATES

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

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 Precartions and Restrictions:

"Important Notice — Unacceptable injury to soybeans planted in treated helds 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.

The coll late on residue forth with large than 1.0% comparis matter.

Do not use on saidy 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 althospheric temperature inversion or when wind direction favors don't from the freated area to susceptible plants. "Do not allow livestock grazing or harvest hay, forage or fodder from treated fields. Livestock should be restricted from

The not allow livestock graphig or harvest hay, forage or todder from treated fields. Livestock should be restricted from feeding/graphig of treated cover crops.

"In treated fields, plant soybean seed as deep as practical, but not less than 10 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: See table for recommended use rates

Apply in the late titlering stage of rice development, at the time of first joint development (first to second green ring), usually 5 to 9 weeks after emergence. Do not apply after panicle initiation, after nce internodes exceed 1/2 inch, at early seeding, early panicle, boot, flowering, or early heading growth stages. Some rice varieties under certain conditions can be injured by 2,4-0. Therefore, before spraying consult local Extension Service or University specialists for appropriate rates and turning of 2.4-0 sprays

SUGARCANE: See table for recommended use rates.

Apply as a pre- or postermergence application to State recommendations. Apply as a pre-mergence application before cares appear or as a postermergence application in spring after care emerges and through by-by

RECOMMMEMDED. RATES DE 2 A.D. AMIME WEED IN IT IS.

	Docage For Acre		
Crep (See Detailed Instructions Above)	Nermal Roles (Usually Sale To Crop)	Higher Rates for Special Siteations' (Mary Libery To Injury Crop	
SMALL GRAINS Spring Postemergence			
wheat, barley rye	2/3 to 1 1/3 Pints	2 to 3 Pints	
oats	1/2 to 1 Pint	1 1/2 to 2 Pints	
Preharvest (dough stage)			
wheat barley pals	1 to 2 Pints	2 to 3 Pints	
CORN			
Preplant	1 to 2 Pwts		
Preemergence	2 to 4 Pirits		
Emergence	1 Pint	1 1/2 Pints	
Postemergence			
up to B inches tall	1/2 to 1 Pint		
B mehes to tasseting (use only directed spray)	1 Pint	1 1/2 to 2 1/2 Pints	
Preharvest	1 to 2 Pints		

RECOMMENDED BATES OF 2.4-D AMINE WEED KILLER - CONTINUED

	Desage Per Acre"		
Crop (See Detailed Instructions Above)	Normal Raies (desaily Sale Te Crop)	Higher Rates for Special Situations' (More Likely To Injure Crop)	
SORGHUM Postemergence 6 to 8 inches tall 8 to 15 inches tall (use only directed spray)	2/3 to 1 Pint 1 Pint	1 1/2 to 2 Pints	
RICE	1 to 2 t/2 Pints	2 to 3 Pints	
SUGARCANE	2 to 4 Pints		

The higher rates as recommended 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 juints 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 fawns should be delayed following treatment. With spring application, reseed in the fall, with fall
application, reseed in the spring. Legumes are usually damaged or folled, therefore, do not treat areas where the legumes
are desired. Deep-rooted perennial weeds such as bindweed and Canada thistle may require repeated application. The
maximum number of broadcast applications per liveatment site is 2 per year.
Resistant Weeds in Lawn and Dimannealtal limit (Spel Treatment): To control certain broadlea! weeds, such as jimsonweed, prickly lettuce, mallow, purstane, shephentspurse, smartweed, henbit, buttercup, wild carrot, docks, pokeweed,
common multein and sheep sorrel usually require a considerably higher dosage rate. These resistant weeds usually may
be controlled in localized areas or spots by applying 1 to 1.14 tablespoons per gation of water when the plants are young
and growing vigorously.

common mullein and sheep sorrel usually require a considerably higher dosage rate. These resistant weeds usually may be controlled in localized areas or spots by applying 1 to 1 t/4 tablespoons per gation of water when the plants are young and growing vigorously.

THIS HIGH DOSAGE RATE CANNOT BE USED WITHOUT CAUSING SEVERE WIJURY, AND CONSEQUENTLY. ITS USE MIJST BE EXCLUSIVELY FOR SPOT TREATMENT WHERE SUCH INJURY CAN BE TOLERATED. Repeated treatments, if new weed growth occars, may be necessary to maintain control. GRASS SEED CROPS: 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 seeding 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-full annual or perennial weeds. For best results, apoly when soil mosture is adequate for good growth AOTE: Do not use on being grass injury can be tolerated. Do not graze dairy animals nor cut forage for hay within 7 days after application.

FALLOW LAND: Use 1 to 2 quarts per ucre on annual broadleaf weeds and up to 2 quarts per acre on established perennal spaces, such as Canada thists: and field bindweed. Apply to weeds actively growing. Do not plant any crop for 3 months after freatment or until 2,4-D has disappeared from the 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. On not use from early bool to milk stage where grass seed production is desired. Most legimens are usually injured or killed at the rates recommended Do not graze dairy animals on treated areas within 7 days of application. Do not harvest grass for hay within 30 days of application. Do not graze m

TREE MURCETION: For control of unwanted hardwoods such as elm, oak, inclory, and sweetgum in forest and other non-crop areas, apply undificied by injecting 1 mil through the bark, using one injection per eich of trunk diameter measured at breast height (4 1/2 feet). For harder to control species (ash, maple, dogwood), use 2 mil undiked per injection. All nijec-tions should be as rear the root collar as possibilit and should be evenly specied 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 STURBAGE. The area contaminate water feet or feet are discovered. The out-street of temperatures below 40°C.

STURAGE: Do not contaminate water, tood, or feed by storage or disposal. Do not store at temperatures below 40° f. Do not store near fertilizers, seeds, insecticides, or fungicides.

PESTICIDE DISPOSAL: Pesticide wastes are tonic, improper disposal of excess pesticide, spray muture, or insate is a violation of Federal Law and may contaminate groundwater. If these wastes cannot be disposed of by use according to label instructions, confact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Triple rines (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of m a sanitary tandfill, or by other procedures approved by State and local authorities.

WARRANTY AND LIMITATION OF DAMAGES

Selfer warrants that this material conforms to its chemical description and is reasonably in for the purposes stated on the label when used in accordance with directions under normal conditions of use and fluyer assumes the risk of any use contrary to such directions. Selfer maters no other express or implied warranty in Filmess or of Marchantability, and no agent of Selfer is authorized to do so except in writing with a specific reference to this warranty. In no event shall Selfer's Eability for any breach of warranty ericed the purchase price of the material as to which a claim is made.

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