' \$ OCT 1992

Ms. Nik Ramswick Universal Cooperatives, Inc. 7801 Metro Parkway P.O. Box 460 Minneapolis, Minnesota 55440

Dear Ms. Ramswick:

Subject: 2,4-D Amine weed Killer

EPA Registration No. 1386-43

Applications Dated August 22, 1992 and September 28, 1992, Request To Amend Product Registration by Adding Pest weeds To List of Weeds Claimed To Be Controlled and by Adding No-Till or Minimum Till Use in Culture of Soybeans

The proposed amendment to add other pest weeds to the list of weeds claimed to be controlled is acceptable under section 3 of the Federal Insecticide, Fungicide and Rodenticide Act as amended provided that you submit one copy of your final printed labeling before you release the product for shipment.

The proposed amendment to add add no-till or minimum till use of this product in the culture of soybeans is conditionally accepted under section 3(c)(7)(8) of the federal Insecticide, Fungicide Act (FIFRA) as amended, with an expiration date of December 31, 1995, and based on a permissible level of residues of the active ingredient 2,4-D of 0.1 part per million. In addition, during the period that this amendment is in effect, it will be subject to the conditions listed below:

- 1. That the Industry Task Force II for 2,4-D Rearch Data will submit to this Agency the following data from field studies:
 - A. Residue chemistry data from TN, AR, IL, IN, MN, MO and either MS or LA; due before January 31, 1994.
 - b. Data from exaggerated residue chemistry studies in three locations, likely IL, MN and either MS or LA; due before January 31, 1994.

- c. Data from plant metabolism studies in three representative, dissimilar crops; due before January 31, 1994
- d. Data from animal metabolism studies (poultry and ruminants) as outlined in the Residue Chemistry Chapter of the 2,4-D Registration Standard; due before January 31, 1994
- e. Adequate storage stability data for all analyses must be submitted before January 31, 1994.
- Submit/cite all data requireed for registration/regrgistration
 of your product under FIFRA section 3(c)(5) when the Agency
 requires all registrants of similar products to submit such
 data.
- 3. Submit production information (pounds or gallons producted) for the product for the fiscal year in which this use is conditionally registered, in accordance with FIFRA section 29. The fiscal year begins October 1 and ends September 30. The product information will be submitted to the Agency no later than November 15, following the end of the preceding fiscal year. The production information must be submitted to:

Registration Support Branch Registration Division (H7505C) Office or Pesticide Programs US Environmental Protection Agency Washington, DC 20460

- 4. Change the interval of time (period) between application and planting of soybeans for the 2/3 pint/acre rate from 7 days to 14 days (this conforms with the specifications FAXed to you on September 22, 1992).
- 5. Submit one (1) copy of your final printed labeling before you release the product for shipment. If this condition is not complied with, the registration will be subject to cancellation in accordance with FIFRA, section 6(a). Your release for shipment of the product constitutes acceptance of this condition.

You should note that if you or others fail to "atisfy any of the conditions imposed on this registration, e.g., the Industry Task Force II for 2,4-D Research Data fails to submit the required data by the specified deadlines or the data submitted are not generated in accordance with EPA guidelines, EPA may issue a notice to cancel this amendment under FIFRA section 6(e).



You should also note that, regardless of whether you satisfy all applicable conditions, this conditional registration will expire automatically on December 31, 1995. Sale and distribution of the subject product bearing labeling for this use on reduced or no-tillage soybeans (pre-plant only) covered under this amendment after December 31, 1995 will be illegal. The tolerance authorizing residues of the subject product in or on soybeans will also expire automatically, two (2) years after the date published in the FEDERAL REGISTER. After that date, sale or distribution of the raw agricultural commodity, soybeans will be a violation of the Federal Food and Drug, and Cosmetic Act.

After the final required data have been submitted and a permanent tolerance established for the residues of 2,4-0 resulting from this use, EFA will entertain an application to amend the registration under section 3(c)(5) of FIFRA as amended without any special limitation on the duration of the amended registration.

A stampted copy of the labeling is enclosed for your records.

Sincerely yours,

Joanne I. Miller Product Manager 23 Fungiciae-Herbicide Branch Registration Division (H-7505C)

Enclosure

E.Wilson:Diskette#2,4-D-1:10:67:92

PM23 1386-43 NAC- 10-7-92 Hafil See hote #4 of Disson Ordgorighetter.

2.4-D. Amine Weed Kiler

CAUTION

See Side Panci For Additional Procestionary Statements

ACTIVE INGREDIENT:

Dimethylamine call of 2,4-dichlorophenoxyacetic acid

[NERT INGREDIENTS 52.63

*Equivalent to 39,295 2,4 dichlorophenoxyzoetic acid. Contains 3,8 pounds 2,4 D Acid equivalent per gallen. *Icomer specific by AOAC fliethod No. 6, Dot 5.

Net Contents: 21/2 Gallons

Elm

1. EFA Ron. No. 1000-1 EFA Ect. No. 1000-014

G0/012

ACCEPTED

THE COMMENTS

UNIVERSAL COOPERATIVES, INC., MINVEAPULIS, MN 55440

D

Under the Federal 1992 in Fun

RECALITIONARY STATEMENTS HAZAROS TO HUMANS AND DOMESTIC ANIMALS CAUTION

UNU LINE
Harmful II availanted. Avoid breathing spray adul. Avoid contact with alda, eyes, and clothing. When handling
this product, wear chamical resistant gloves. What thoroughly before eating or amoling. Yeap out of the reach
of children.

STATEMENT OF PRACTICAL TREATMENT

If Surflewed: Contact a physician immediatel by touching the back of threat with a finger R anything by mouth to an unconscious person. medialaly, Give victim one or two glasses of water and laduce vomilies ages. Repeat until vomit field is clear. Do not induce vomiting or give

ling and wesh affected areas with seep and water. Do not seese con-officel attention it inflation persists. If on Skin: Remove contamin ated clot g atili teshel. Get a 44

If in Eyes: Flush with water for at least 15 admites. Call a si

Il labated: Remove victim to tresh aic Apply respiration if Indicated.

ENVIRONMENTAL HAZARDS

This product is toxic to aquatic invertebrates. Orbit or runoff may advantly affect aquatic nontargel plants. Do not apply directly to varier except as up in this table. Do not contain disposing of equipment washinglifts. Do not containing within the interest to infiguration or downs. dispessing of equipment washingers. Do not competence want amonous on unquest or continues, or other copy as specifically recommended for this label) especially in areas where grapes, cotton, terrators, or other susceptible plants are grown. Do not treat infigation disches in areas where water will be used to contend (sprintle infigate ausceptible crops especially grapes, tomatoes, tobacco, and cotton.]. Do not apply when weather cond tions favor drift from target area

Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-0 have been associated with midisplicating and disposal sites. Caution should be exercised when handling 2,4-0 postcides at such sites to prevent contamination of groundwater supplies. Use of closed systems for mixing or transferring this postcide will reduce the probability of spills. Placement of the criticaglicating equipment on an impervious pad to contain spills will help prevent groundwater contamination.

DIRECTIONS FOR USE

It is a violation of federal Law to use this product in a manner inconsistent with its tabeling. OO NOT APPLY THIS PRODUCT (HROUGH ANY TYPE OF IRRIGATION SYSTEM.

Do not apply this product in such a granner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

On not enter treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive reentry intervals for various crops treated with unis product, consult your State Department of Agriculture for further information. Witten or oral warnings must be given to workers who are expected to be in a "rested area or in an area about to be treated with this product. Read the above reentry statement and the procaudionary statements to workers. When wall warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Willian warnings must be given if there is reason to believe that without warnings cannot be understood by workers. Willian warnings must include the following information. "CNUTION: Area treated with 2,4-D Amine Wicod Killer (contains 2,4-D) on (date of application). Do not enter without appropriate protective clothing until sprays have dried, (insent here Statement of Practical Treatment from label.)"

2.4-D Amine Weed Killer will till or control the following as well as many other against states successful to 2.4-D:

2,40 Amine Weed Killer will bill or control the following as well as many other norious plants susceptible to 2,40:

Mifelfel Coffeebean Locowed Sheep Sorrel Arronhead Common Mullein Mallow Sheaherdspurse Artichoke Creeping Jenny **Hexicamoed** *Smertweed *Bindwed (Nedge, Morningglory, Annual Curly Indiao Southistle Field, European) Dande i foe Mustard Stinks and **Bitter Wintercress** *Dock Sumac Perrotfeather Bittercress, Smallflowered *Dogbene Pennycress, Field Sunflower Boxelder Yelvetlegf..... Duckseed Pennywort Vetch, Hairy Buckhorn **Elderberry** *Peppergrass Yirginia Ciegor **Bull** Thistle Evening Primose, Cutleaf Pigueed Dullmettlé *Goldenrod Plantain **Materiasciata Billresh** *Ground Ivy **Foison Ivy** Waterlilly Surdock Hemo **Pokeweed Nateroriamosé** Bur remed **Hembit** Wild Carrot ::: **Povertyweed Buttercup Hoary Cress** Prickly Lettuce Wild Carlie *Camada Thistle ...Honeysuckle **Puncturevine** Wild Lettuce Catain Norsewed or Marestall Perslane Mild Onioc Chickreed Indigo Ragneed Wild Radish Chicory *Ironweed Rush Willow *Clover, Red Jimsooweed *Russian Thistle Witchweed Cocklebur, Common Lambsquarters, Common Sagebrush

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

This product should be used as a will liked spray, or may be mixed with liquid altrogen furtility or below), for solicitive control of susceptible woods growing in small grain crops, com, supplies, turns any becomental test, and for non-colorine control of cortain woods not in growing crops, such as readsides, tence rows, and drainage elich basis. The most ruse is now most read a growing crops.

drainage elich banks. Do not use in or near a greenhouse.

Apply when the weeds are young and are in a succelent, rapidly growing condition, since best results are obtained when sell emisture and temperature conditions are targetable for rapid growth of weed plants. Spray applied when weeds have stopped growing rapidly, or when they are attented by a lock of moisture in the soil, are often not effective against many blads of weeds. Spray personals weeds after they are completely emerged, but before the bloom stage. Kill of weeds may not be original for 2 to 3 weeks after spraying. Retreatment of areas intested with personals weeds may be necessary.

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

Aerial, ground rig, and hand sprayer application should be used only when there is no danger of drift to susceptible crops. Hany states have regulations concerning aerial application of 2,4-D 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 or Game and Fish Commission will aid you in securing a permit for your state.

PREPARATION OF SPRAY AND APPLICATION: Recommended quantities of this product should be added to water in the spray tank at time of application. Agitate or stir to assure a good mixture and continue some agitation during application. The quantity of spray solution to make up will depend upon the equipment to be used. When using a low vc'ume sprayer, the proper dosage should be applied in at least 15 gallons of water per acre, although as little as 5 to 10 gallons per acre have been used successfully in certain instances. When using a high pressure sprayer, apply in 150 to 200 gallons of water per acre. For aerial application, apply in 1 to 5 gallons of water per acre. Always use the proper amount of 2,4-0 Amine Weed Killer per unit area regardless of the quantity of water.

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

CLEANING SPRAY EQUIPMENT: It is almost impossible to remove residues of 2,4-0 from sprayers and spray equipment, particularly from non-metallic parts (wood, rubber, fibre), and it is advisable NOT to use the same equipment for applying other materials to plants or crops.

Do not use the same spray equipment for other purposes unless thoroughly cleaned.

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

JAR TEST

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

2,4-D Amine Rate/Acre	Level Teaspoons of 2,4-0 Amine	
	Volume of 25 Gal./Acre	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 1000000	- 1/4 teaspoon
4 pints	2 teaspoons	1/2 teaspoon

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

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

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

If incompatibility occurs, the use of a suitable compatibility agent may solve the problem. Rerun the above compatibility test, but add 14 teaspoon of a compatibility agent prior to adding the 2,4-D Amine. (The 14 teaspoon is equivalent to 2 pints per 100 gallons of liquid nitrogen fertilizer.) If the mixture is still incompatible, DO NOT USE.

TANK MIXING SEQUENCE

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

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

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

SMALL GRAIN CROPS (Wheat, Barley, Rye, Oats): See table for recommended use rates. Spray when weeds are small after grains are well tillered (usually 4 to 8 inches tail), but before the boot stage. Do not apply before the tiller stage nor from early boot through milk stage. To control large weeds that will interfere with harvest or to suppress perennial weeds, preharvest treatment can be applied when the grain is in the dough stage. Best results will be obtained when soil moisture is adequate for plant growth and weeds are growing well.

Spring Planted Oxis: Apply in sufficient water to give good cover-ge. Apply after the fully tillered stage, except during the boot to dough stage.

Fall Planted Oats: Apply after full fillering 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 cold weather.

NOTE: Do not use on grain interplanted with legumes. Do not forage or graze treated orain field within 2 weeks after treatment with 2.4-1). Do not feed treated straw to livestock.

CORM: See table for recommended use rates.

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

Preemergence: Apply to ____ anytime after planting but before corn en ____ jes. Do not use on very light, sandy soil.

Emergence: Apply just as com plants are breaking ground.

Post-emergence: Best results are usually obtained when weeds are small and com is 4 to 18 inches tall. When com is over 8 inches tall, use drop nozzles to keep spray of com foliage as much as possible. Do not apply from tasseling to dough stage. If comis growing rapidly and temperature and soil moisture content is high, use 1/2 pint per acre rate to reduce the possibility of crop damage. Delay cultivation for 8 to 10 days after application to reduce possibility of stalk breakage due to temporary brittleness caused by 2,4-0. Hybrid com should be sorayed 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 treatment.

Pre-harvest; After the hard dough or denting stage, apply 1 to 2 Fints per acre of 2.4-D Amine by air or ground equipment to suppret a perennial weeds, decrease weed seed production, and control tall weeds such as bindweed, cockebut, dogbane, jimsonweed, ragweed, sunflower, velvetleaf, and vines that interiere with harvesting. Do not lorage or feed com fodder to livestock for 7 days following application.

SORGHUM (MILO): 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 th: n 2/3 pint per acre. Hybrids should be sprayed only if the cross or line is known to be tolerant to 2,4-0 at the recommended dosage or after experience has shown the particular crosses or lines being grown to be tolerant to 2,4-0 treatment.

FOR USE IN CROP RESIDUE MANAGEMENT SYSTEMS IN SOYBEANS

(Preplant Application Only)

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

so not use any tillage operations between herbicide application and planting of soybeans. (* **27.**

Mixing Pastruction Compatible crop bil concentrates, agricultural surfactants and I gill record [20] approved for assion proving crops may be added to Espray mixture and proving crops may be added to Espray mixture and pastructures to the Sherbicidal Martinettions and pastructures on this Habel and pastructure and pastructure and pastructure.

Application Procedure Apply using a 10 of proving agriculture at a spray volume sufficient to approve a conjitory coverage of the distribution for more gallons of total Appray volume for acres for ground equipment.

APPLICATION TIMING UNDUSE RATES

WEN TO APPLY BROADCAST APPLICATION RATE (Days Prior To Planting Soybeans)

Pint/Acre Not less Than 7 Days 2/3-Pint/Acre th

Pint/Acres a a Rot Less Inanes Days

For best, weed control results, application should be made when weeds are small; actively growing and free of stress caused by temperature extremes; and sture stress diseases, or insect admine my limit of individual weed ispected may be made a Consultational country agent for State Agricultural Extension Specialist or Crop Consultation and Cons

in price of the little of application of the little of application of little tation, and previous crops residue present at the time of application of little tation, and previous crops residue present at the time of application of little tation, and previous crops residue present at the time of application of little tation, and previous crops residue present at the time of application of little tation, and previous crops residue present at the time of application of little tation, and previous crops residue present at the time of application of little tations. thore likely and crop testode present the property and there there is less than and crop testode present the prese

*Do not use on sandy soils with less than 1.0% organic matter.

*Do not make more than one application per season regardless of the application rate used.

*Do not apply when weather#conditions such as atmospheric temperature inversion or when wind direction favors drift from the treated area to susceptible plants. *Do not allow livestock"grazing or harvest hay, forage or fodder from treated fields. Livestock should be restricted from feeding/grazing of treated cover crops.

*In treated fields, plant soybean seed as deep as practical, but not less than 1.0 inch deep. Adjust the planter, if necessary, to ensure that planted seed is adequately covered.

*Do not apply 2,4-D Amine Need 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 Need Killer.

BEST AVAILABLE COPY

RiCE: See table for recommended use rates.

Apply in the late tillering stage of rice development, at the time of first joint development (first to second green ring), usually 6 to 9 weeks after emergence. Do not apply after panicle inklation, after rice 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-D. Therefore, before sprzylag consult local Extension Service or University specialists for appropriate rates and firning of 2,4-0 sprays.

SUGARCANE: See table for recommended use rates.

Apply as a pre or post emergence spray according to State recommendations. Apply as a preemergence application before canes appear or as a postemergence application in spring after cane emerges and through lay-by.

RECOMMENDED RATES OF 2.4-D Amine Weed Killer

•••

	Dosage Per Acre**	
Crop (See Detailed Instructions Above)	Ho: vi Rates (Usually Safe Te Crop)	Higher Rates for Special Stitutions' (More Likely To Injure Crop)
SMALL GRAINS Spring Postemergence wheat, barley, rye oats Preharvest (dough stage) wheat, barley, oats	2/3 to 1 1/3 pints 1/2 to 1 pint 1 to 2 pints	? to 3 pints 1 //2 to 2 pints 2 to 3 pints
CORM		
Preplant	1 to 2 pints	
Preemergence Emergenca	2 to 4 pints 1 pint	1 1/2 pints
Postemergence up to 8 inches tall 8 inches to tasseling	1/2 to 1 pint 1 pint	1 1/2 to 2 1/2 pints
(use only directed spray) Preharvest	1 to 2 pints	•
SORGHUM Postemergence 6 to 8 inches tall	2/3 to 1 pint	
8 to 15 inches tall (use only directed spray)	1 pint	1 1/2 to 2 pints
RICE	1 to 2 1/2 pints	2 to 3 pints
SUGARCANE	2 to 4 pints	

The higher rates as 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.

BEST AVAILABLE COPY

Resistant Woods in Lawn and Ornamental Test (Spot Treatment): To control certain broadless woods, such as Jimsonweed, pricity lettuce, essilow, pursione, shepherdapurse, swartweed, herbit, butlercup, wild carrot, docks, policined, common stolicin and sheep sorrel usually require a considerably higher decape rate. These resistant weeds usually may be controlled in localized areas or spots by applying 1 to 1 1/4 tatigrapoons per gallon of wager when the plants are young and growing vigorously.

THIS HIGH OOSAGE RATE CANNOT BE USED WITHOUT CAUSING SEVERE INJURY, AND CONSEQUENTLY, ITS USE MUST BE EXCLUSIVELY FOR SPOT TREATMENT WHERE SUCH MUJIFY CAN BE TOLERATED.

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

GRASS SEED CROPS Use 1 to 4 plats per acre in apring or fall to control breadles! 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 plat per acre to control small seedling weeds. After the grass is well established, higher rates of up to 4 plats can be used to control hard-to-lift annual or personial weeds. For best results, apply when soil moisture is adequate for good growth, HOTE: Do not use on best grass unless grass injury can be tolerated. Do not graze day animals nor cut forage for key within 7 days after application.

FALLOW LAND: Use 1 to 2 quarts per acre on annual broadlest weeds and up to 3 quarts per acre on established percential species, such as Canada thistle and field bindweed. Apply to weeds actively growing. Do not plant any crop for 3 months after treatment or until 2,4-0 has disappeared from the sell.

PASTURES AND RANGELAND: To control enacy broadlest weeds in pastures, meadous, and rangelands, use 2 to 4 pints per acre of 2,4-0 Amine Weed (Clier in sufficient water to provide for uniform application, Treat when weeds are growing activity. On not use on newly seeded areas until grass is well established. Do not use them early book to milk stage where grass seed production is desired. Meet legumes are usually injured or tilled at the rates recommended. Do not graze delay unimals on treated areas within 7 days of application. Do not harvest grass for key within 30 days of application. Do not graze meet animals on treated areas within 3 days of stauplies.

CONTROL OF SOUTHERN WILD ROSE: On rangelands, conditions, and fencarous, use 1 gallon plus 4 to 8 fluid ounces of an apricultural surfectant per 100 gallons of water and spray thoroughly as soon as foliage is well developed. Two or more treatments may be required, On rangeland, apply a medianom of 6 quarts per acre per application. Do not graze dairy animals on treated area within 7 days after application.

GENERAL WEED CONTROL (Airfields, readcides, vacant lets, drainage dich banks, fonce rows, industrial sites, and similar areas): Use 1 to 3 quarts per acre. Usually 2 quarts per acre will give adequate control. Treat when weeds are young and actively growing. Do not use on herbaceous ground covers or crooping grass such as Bont. Legumes will usually be damaged or tilled. Deep-rooted perennials may require repeat applications. Do not use on frestly seeded turf until grass is well established. Delay reseeding for 3 months or until 2,4-0 has disappeared from soil.

W000Y PLANT CONTROL: To control woody plants susceptible to 2,4-0, such as Alder, Buckbrush, Elderberry, Sumac, and Willow on non-crop areas, use 2 to 3 quarts 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 are necessary where the brush is very dense and over 6 to 8 feet high. Applications are more effective when made on actively growing plants. Treatment should not be made during time of severe drought or in early fall when leaves lose their green color. Hard to control species may require retreatment next season.

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

STORAGE AND DISPOSAL

STORAGE: Do not contaminate water, food, or feed by storage or disposal. Do not store at temperatures below 40° E. Do not store near fertilizers, seeds, insecticides, or fempicides.

PESTICIDE DISPOSAL: Pesticide westes are toric. Improper disposal of excess pesticide, spray mixtu..., or rinsate is a violation of Federal Law and may contaminate groundwater. If these wastes cannot be disposed of by use according to tabel instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTINUER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary tandilli, or incineration or, if allowed by State and local authorities, by burning. If Surned, stay out of smoke.

WARRANTY AND LIMITATION OF DAMAGES

Setter warrants that this material conforms to its chemical description and is reasonably it for the purposes stated on the tabet when used in accordance with directions under normal conditions of use and Buyer assumes the risk of any use contrary to such directions. Setter makes no other express or implied warranty, including any other express or implied warranty of Fitness or of Merchantability, and no agent of Setter is authorized to do so except in writing with a specific reference to this warranty, in no event shall Setter's fability for any breach of warranty exceed the purchase price of the material as to which a claim is made.

CO-OP IS A REGISTERED TRADEMARK OF UNIVENSAL COOPERATIVES. INC.

