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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

MAR 2 4 1994

Nik Ramswick UNIVERSAL COOPERATIVES INC. P. O. Box 460 - 7801 Metro Parkway Minneapolis, MN 55440 OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Subject: Label Amendment Submission of 07/16/93 in Response to PR Notice 93-7 EPA Reg. No. 1386-60 UNICO 2,4-D LO-V ESTER 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.



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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) д

Attachment

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs **Registration Division**

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

Comment for: EPA Reg Nr.1386-60 UNICO 2,4-D LO-V ESTER WEED KILLER

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

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."

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 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 UNIVERSAL COOPERATIVES INC EPA Reg. Number: 1386-60 UNICO 2,4-D LO-V ESTER WEED KILLER Application date: 07/16/93 Original Submission

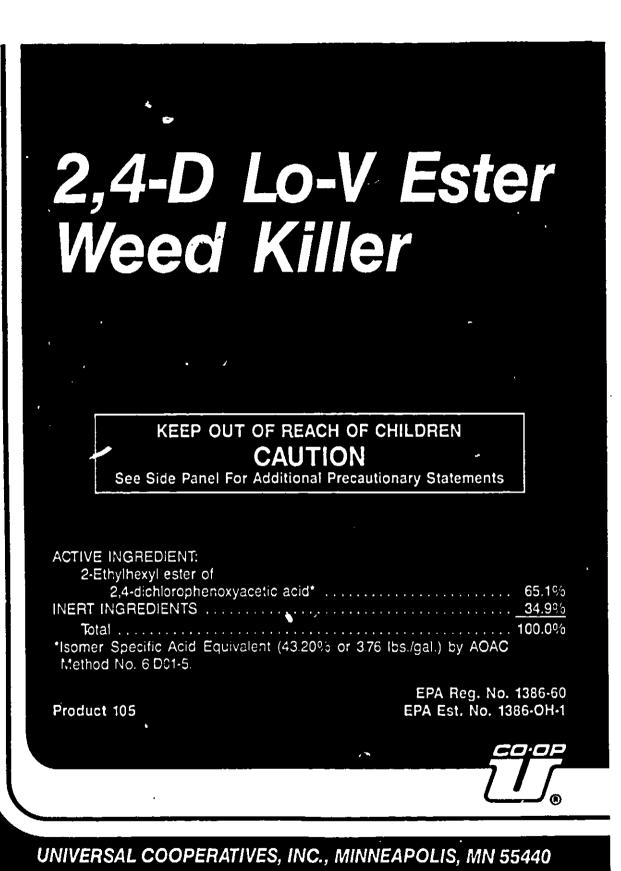
or through drift. Only protected handlers may be in the area during application." from its current position within the Agricultural Use Box and place it above the Agricultural Use Box.

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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.





ACCEPTED with COMMENTS In EPA Letter Dated 5 7

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2 4 1904 the Federal Insecticide. leide, and Rudentieide Act mended, for the posticide terod under EPA Reg. No. 1384-60

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: Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category E on an EPA chemical resistance category selection chart.

Applicators and Other Handlers Must Wear:

*Long-sleeved shirt and long pants *Chemical-resistant gloves, such barrier as laminate, nitrile rubber, neoprene rubber, or viton. *Shoes plus socks *Protective eyewear

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

Engineering Controls Statements: A closed system 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.

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

STATEMENT OF PRACTICAL TREATMENT If Swallowed: Call a physician or Paleen Context Center immediately. Do not induce vombing unless directed by a physi-cian since aspiration fazard exists with this product. If on Stat: General-resonantimized context on the state with scap and water. Burnet-reson-context and the state of the

ENVIRONMENTAL HAZARDS

EXTURNENT AL. MALANUS Most cases of groundwater contamination inwiving phenoxy harbicides such as 2,4-D have been associated with mix-ing/locking and disposal sites. Caution should be exercised when handling 2,4-D pesticides at such sites to prevent con-tamination of groundwater supplies. Use of closed systems for mixing or transforming this pesticide will reduce the p-to-ability of spile. Pleasment of the mixing/backing equipment on an imperview pad to contain spile will help prevent ground-water contamination. NONADUATIC USES

This product is toxic to aquatic invertebrates. Drift or runoff may advaraely affect aquatic invertebrates and nontarget plants for terrestrial uses, do not apply directly to water, or to anes where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water intended for irrigation or domestic purposes. Do not con-taminate water when disposing of equipment washwaters. Do not apply when watther conducts savor dirit from target areas. ADUATHC USES

This product is toxic to equatic invertebrates. Drift or runoff may adversely affect aquatic invertebrates and nontarget plants. Do not apply directly to valer except as specified on this label. Do not contaminate water when disposing of equipment washvaters. PHYSICAL OR CHEMICAL HAZARDS

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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

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

Do not 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 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

*Coveralls
*Chemical-resistant gloves, such as barrier
laminate, nitrile rubber, neoprene rubber, or
viton
*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

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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.

waterings must include the following information. "CAUTION: Area treated with 2.4-D Lo-V Ester Weed Killer (contains 2.4-O) on (date of application). Do not enter without appropriate protective clothing until sprays have dried. (Insert here Statement of Practical Treatment from (sbel.)" Do not apply this product in each a manner as to directly or through drift expose workers or other persons. The area being treated areas which protected persons. The area to directly or through drift expose workers or other persons. The area consideration areas which protected persons are drive dri drive dri drive dri drive drive drive dri

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DO NOT APPLY THIS PRODUCT THROUGH ANY TYPE OF IRRI-GATION SYSTEM.

"Alfalla	*Clover, Red	Lambsquarters, Common	Sagebrush
Alligzorweed	Cocklebut, Common	Locoweed	Shepherdspurse
Arrowhead	Coffeebean	Mexicanweed	"Smartweed
Articholie	Creeping Jenny	Morningglory, Annual	Sowthistle
Bindweed (Hedge,	Curty Indigo	Mustard	Stinkweed
Field, European)	Dandelion	Parroticather	Semac
Bitter Wintercress	*Dock	Pennycress, Field	Suntioner
Bittercress, Smallflowered	Duckweed	Pennywort	Velvetleaf
Banelder	Elderberry	"Peopergrass	Vetch, Hairy
Buckhorn	Evening Primose, Cutleal	Proveed	Virginia Creepe
Bull Thistle	"Goldenrod	Plantain	Watertyacinth
Builinettle	*Ground hy	Paison Ivy	Waterfilly
Burush	Hemp	Poleweed	Waterprimrose
Burdock	*Hoary Cress	Povertywerd	"Wild Garlic
Bur Ragweed	Honeysuckle	Puncturevine	Wid Lettuce
Buttercup	Horseweed or Marestail	Purstane	"Wild Onion
Catnip	indigo	Ragweed	Wild Radish
Cnickweed	Ironweed	Rush	Willow
Chickery	Jimsonweed	*Ressian Thistle	

These species may require repeat applications and/or use of the tight rate recommended on this product label even under ideal conditions for application. 2,4-D Lo-V Ester Weed Killer should be used as a water diluted spray, or may be applied in liquid nitrogen fertilizer (see below), for selective control of susceptible weeds growing in small grain crops, corn, grass seed crops and ornamen-tal turt, and for non-selective control of certain weeds not in growing crops, such as roadsides, tence rows, and drainage

onch oanis. Do not use in er wear a greenhouse. Crops contacted by 2,4-D Lo-V Ester Weed Killer sprays or spray rhilt may be hilled or suffer significant stand loss with examine quality and yield reduction. Apply when the weeds are young and in a succuterk, rapidly growing condition, since best results are obtained when soil moisture and temperature conditions are bavorable for rapid growth of weed plants. Sprays applied when weeds have stopped growing rapidly, or when they are affected by a lock of moisture in the soil, are often not effective against many

stopped growing rapidly, or when they are affected by a lack of moisture in the soil, are often not effective against many trinds of weeds. Spray perunnial weeds after they are completely emerged, but before the bloom stage. Xill of weeds may not be evident for 2 to 3 weeks after manaying. Retreminent of areas intested with perunnial weeds may be necessary. Considerable cluston must be exercised in using 2,4-0 sprays to avoid injury to crops and desirable plants. Do not apply directly to work allows, institutes, emanwatchia, collen, scybeans, isomass or other desirable plants. Do not apply directly to work allows, institutes, emanwatchia, collen, scybeans, isomass or other desirable plants, which are sensitr -- to 2,4-0 and do not permit spray mist to drift onto them since even minute quantilies may cause server injury dur. The growing or dormed period. Excessive anound to drift to sue on crueping grasses, such as Berl. Most tegrates including white close, are usually demapted and under some conditions, tabled. Arriel application should be used only when there is no danger of drift to assecutible crops. Many states have regula-tions concenting aerial application of 2,4-0 formulations. Do not apply with hollow come type treesclicide or other notices that product fine spray droplets. Orth 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 apray mix per acre; (3) by detacassing the points of all start to beartment of gabic starts. Consult tocal mediatory authorities before ring applications states. Your State Conservation Department of gabic starts. Consult tocal mediatory authorities before ring applications tasters. Your State Conservation Department of gabic where a visit to asserve a groot mater and applications and path starts of the notice treatment of public where requires a percent from appropriate state approvale in your states. How state apartices in most states. Your State Conse

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USE IN LIQUID INTROGEN FERTILIZER: 2.4-D Lo-V Ester Weed Killer may be combined with some liquid narrogen whiters However, the compatibility of 2.4-D Lo-V Ester with the fortilizer must be tested before combining in the spray tank

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JAR TEST Amount of 2,4-D Lo-V Ester to add to one pint of liquid nitrogen fertilizer.

2.4-0 La-V Ester	Level Tescaeens of 2	Level Tesepoons of 2,4-0 La-V Ester		
Rate/Acre	Volume of 25 Gal.Mcm	TRADUCT OF THE VALUE OF		
1/2 Pint	1/4 Teaspoon	1/16 Teaspoon		
1 Pint	1/2 Teaspoon	1/8 Teaspoon		
2 Pints	1 Teaspoon	1/4 Teaspoon		
4 Pints	2 Teaspoons	1/2 Teaspoon		
The encoded is backing	to be rested as indicated in the above table is burged.	an aither 25 callons or 100 calloes		

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

of linished spray per acre. When using tower or mum spray remains a registering test. In a quart just add the appropriate amount of 2,4-D Le-V Ester, as determined from the above chart, to one pint of liquid nitrogen fertifizer. 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 Rales, studge, gets, only films or layors or other precipitates, then the tested combination is compatibility decision. The use of a suitable compatibility agont may solve the problem. Rerun the above compatibility be used, provided good agitation is maintained throughout the mixing and application operations. If incompatibility occurs, the use of a suitable compatibility agont may solve the problem. Rerun the above compatibility test, but add 144 testspoon of a compatibility agant prior to adding the 2,4-0 Le-V Eaker. (The V4 testspoon is equivalent to 2 pints per 100 gallons of figuid nitrogen fartilities.) If the mixture is still incompatible, DD NOT USE. TAMME MIXING SECUENCE

TANK MUXING SEQUENCE If the annual incompatible without the use of a compatibility agent, fill the spray tank with half the annual of lentitizer to be used. Add the 2.4-D Lo-V Ester, with agitation, and compatibility agent, fill the spray tank with tertilizer. Apply immediately and continue agitation in the spray tank during application. If a compatibility agent must be used, add it is the spray tank prior to adding the 2.4-D Lo-V Ester. Follow applicable recommendations and field application rates on the fertilizer and compatibility agent labeling, as well as the 2.4-D Lo-V Ester labeling.

CROPS

CRUPS SMALL GRAIN CROPS (Wheat, Barley, Rye, Oats): See table for recommended use rates. Spray when weeds are small after grains are well tiltered (assally 4 to 8 inches taß), but before the boot stage. Do not apply during the seeding stage, late jointing stage or after heading begins. 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. Spring Planted Oats: Use V2 joint per acre in sufficient water to give good coverage. Apply after the tully tillered stage. Each Planted Dats: Apply 1/4 to 1 1/4 pints per acre after full tillering but before the early boot stage. Some difficult weeds may require higher rates (2/4 to 1 1/4 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 lorage or graze treated grain fields within 34 days after treatment. Do not ferd travel of straw to five-stock.

nt. Do not feed treated straw to investock.

CORN

See table for recommended use rates

See table for recommended use rates. Preplant (Field Cara): This product may be applied prior to planting field com to provide foliar burn-down control of susceptible annual and perennial broadleal weeds and certain broadleal cover crops such as those listed on this label. To control energed broadleal weed seedings or existing cover crops prior to planting com, apply 1 to 2 pints per acre 7 to 14 days before planting. Do not use on light, sandy soil or where moisture is inadequate for normal weed growth. Use kinh rate for control of less susceptible weeds or cover crops such as a faila. Prosmergence: Apply to soil after planting but before con emerges. Do not use on very light, sandy soils or where soil moisture is inadequate for normal weed growth. Use lower rate of application on loam soils and higher rate on clay soils. Use high rate on soil high in organic matter. Plant com as deep as practical. Prestemergence: Rest results are usually obtained when weeds are small and com is 4 to 18 inches tail. When com is over 8 inches tail, use drop nozzles to leep spray off com foliage as much as possible. Do not apply from tasseling to reduce the possibility of crop damage. Delay cultivation for 8 to 10 days after application to reduce possibility of stafk breakage from temporary britteness caused by 2,4-D. Hybrid com should be sprayed only if the cross or line is known to b 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 at the recommended dosage, or after experience has shown the particular crosses or lines being grown 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 at the hard dough or dening stage, apply 1 to 2 pints per acre by air or growned equipment to suppress

grown to be related to 2,450 treatment. Produzivest: After the hard dough or denting stage, apply 1 to 2 pints per acre by air or ground equipment to suppress peromial weeds, decrease weed seed production, and control tail weeds such as bindweed, cocidebur, dogbane, pim-sonweed, ragweed, sunflower, velvetleal, and vines that interfere with harvesting. Do not forage or feed corn fodder to swestock for 7 days following application.

SORGHUM (MILD): See table for recommended use rates

Sumanum (IMLD): See take to recommended use rates Apply when sorghum is 4 to 12 where high with secondary roots well established. When crop is over 10 inches tail, use drop nexizes to keep spray off loliage as much as possible. Do not apply from flowering to dough stage. Do not use with oil. Temporary crop injury may occur under conditions of high soil moisture and high air temperature. 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 ex-perience has shown the particular crosses or line is being grown to be tolerant to 2.4-D treatment.

	Dosage Per	Acre**
Crop (See Detailed Instructions Above)	Normal Rates (Usually Sale To Crop)	Higher Rates for Special Situations" (More Likely To Injure Crop)
SMALL GRAINS		
(Wheat, Barley, Rye)		
Annual Weeds	1/2 to 1 Pint	1 to 2 Pints
Perennial Weeks	1 Pint	1 1/4 to 2 Pints
Preharvest	1 to 2 Pints	
OATS		
Spring	1/2 Pint	
Fell	1/4 to 3/4 Pint	3/4 to 1 1/4 Pints
Preharvest	1 to 2 Pints	•••••••••
CORN		
Preplant (Field Com)	1 to 2 Pints	
Preemergence	1 to 2 Quarts	
Postemergence	V2 Pint	1/2 to 3/4 Pint
Preharvest	t to 2 Pints	
SORCHUM (Mile)		<u> </u>
	ant fine	10 - 3// 0-
Postemergence	1/2 Pint	1/2 to 3/4 Pint

The higher rates as recommended above may be necessary to control difficult weed problems such as under dry condi-tions 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

'Il band treatment is used, base the dosage rate on the actual area spraved

FOR USF. IN CROP RESIDUE MANAGEMENT SYSTEMS IN SOYBEANS

FOR USF. IN CROP RESIDUE MANAGEMENT SYSTEMS IN SOTUBEANS (Propriate Application Dely) 2.4-D Lo-V Ester 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 tokar burn-down control of susceptible annual and perennial broadleaf weeds and certain broadleaf cover crops such as those listed on this tabel. Male only proplant applications to emerged weeds prior to planting soybeans grown in reduced inlage production systems. Apply only accord-ing to instructions given below to not use any inlage oprations between herbicide application and planting of soybeans. Mixing leatinections: Compatible crop of concentrates, agricultural surfactants and fluid tertifizers approved for use on growing crops may be added to spray mixture to increase the herbicidal and fluctive of 2.4-D Lo-V Ester Werd Killer on certain weeds. Read and influe all directions and planting on the lated of action and teled of the plant of any mixture to increase the herbicidal and fluctive of 2.4-D Lo-V Ester Werd Killer

on certain weeds. Read and follow all directions and precautions on this label and on the label of each product added to the spray mixture

Application Procedures: Apply using an or ground equipment in a spray volume sufficient to provide uniform coverage of weeds. Use 2 or more gallons of total spray volume per acre for aerial app'cation and 10 or more gallons pegac BEST AVAILABLE COPY for around equipment

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PRODUCT	BROADCAST APPLICATION RATE	(Days Prior To Planting Soybeans)
2,4-D Lo-V Ester	1 Pint/Acre 2 Pints/Acre	Not Less Than 7 Days Not Less Than 30 Days
for best weed contr	of results, application should be made when weeds	

caused by temperature entremes, molistine should be induce minimized an assume, extremy growing and ince of sitess caused by temperature entremes, molistine stress, diseases, or insect damage. The control of individual week species may be variable. Consult your local county agent or State Agricultural Extension Specialist or Crop Consultant for advice Use Precautions and Restrictions:

Use preclamms and reservants. "Important Notice — Unacceptable injury to soybeans planted in trained fields may occur. Whether or not soybean injury occurs and the extent of such injury will depend on weather (temperature and rainfall) from herbicide application until soybean emergence and agronomic factors such as the amount of weed vegetation and previous crop residue present at the time of application. Injury is more likely under cool rainty conditions and where there is less weed vegetation and crop residue present.

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and crop residue present "Do not use on sandy sols 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 all'un investor's grazing or handes: 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 adequality covered. "Do not apply 2,4-0 Lo-V Ester 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 proving season following application, do not replant treated fields with crops other than those tabled for use with 2,4-0 Lo-V Ester Weed Killer. SUGARCHALE: Use 2 plants or as a presence application before canes appear of 2 owarts per acre as a blanted

use with 2,4-0 Lo-V Ester Weed Killer. SUGARICANE: Use 2 pints per acre as a preemergence application before cames appear or 2 quarts per acre as a blanket sorvy siter care emerges and through laylor, to aid in the control of Johnsongrass seedings and susceptible breadeal weeds. LUWM AND ORMANENTAL TURF: Use 1 to 3 pints of 2,4-D Lo-V Ester Weed Killer in enough water to give good coverage to one acre on established stands of perennial grasses. Do not apply to creeping grasses such as bent except for spot soraying. Newly seeded turi should not be treated until after the second mowing and the lower dosage rate should be used. Reseeding of treated areas should be delayed following treatment. With spong application, reseed in the fall; with fall application, reseed in the spring Legumes are usually damaged or toiled, therefore, do not treat areas where the legumes are desired. Deep-rooted perennial weeds may require repeated treatments in the same season or in subsequent years. The maximum number of broad cast applications per treatment site is 2 per year.

GRASS SEED CROPS: Apply 1 to 4 pints of 2,4-D Lo-V Ester Weed Killer in the spring or fall to control broadleaf weeds in grass being grown for seed. Do not apply from early boot to mill stage spray seeding grass only after the five leaf stage, using 3/4 to 1 pint per acre to control small seeding weeds. After the grass is well established, higher rates of up to 4 pints can be used to control hard to kill annual or perennial weeds. For best results, apply when sol moisture is adequate for good growth. Do not use on Bent unless injury can be tolerated. Do not graze dairy animals nor cut forage for hay within 7 days of application. FALLOW LAND: On established perennial species such as Canada thistle and Field bindweed, apply up to 2 quarts per acre of 2,4-D Lo-V Ester Weed Killer. For annual broadleal weeds, apply 1 to 2 quarts per acre. Do not plant any crop for 3 months after treatment or until 2,4-D has disappeared from the soil. PISTURE AND RANGELAND: WOTE: Do not graze dairy animals on treated areas within 7 days after application. Do not harvest grass to hay within 30 days of application. Do not graze meat animals on treated areas within 3 days of slauphter. Do not use on bent grass, allafta, clove; or other legumes or on newly seeded pastures. Do not apply after heading begins or when grass is in the boot to milk stage where grass seed production is desired. Bitterweed, Brownweed, Crubu, Boeck, Kacha, Marshelder, Mirektithistle, and Other Breatleaff Weeds: Use 4 pints of 2,4-D Lo-V Ester Weed Killer per acre in the amount of water needed for uniform application. If the weeds may require repeated for and wild Onlow: Apply 4 pints per acre, making three applications (fall-spring-fall or spring-fall-spring) starting in fate fall or early spring. Mild Garlie and Wild Onlow: Apply 4 pints per acre, making three applications (fall-spring-fall or spring-fall-spring) starting in fate fall or early spring. Mild Garlie and Wild Onlow: Apply 4 pints per acre, making three applications (fall-spring-f

week Control in newry springen Control normalizers: Apply 2 to 4 prins per acter preemergence and/or postemergence Sand Shinnery Gat and Sand Sagebrush: On the oak, use 2 prints in 5 gallons of oil or in 4 gallons of mater plus 1 galon of oil per acre. Apply by aincraft between May 15 and June 15. On the sagebrush, use 2 prints in 3 gallons of oil per acre and apply by aincraft between May 15 and June 15. On the sagebrush, use 2 prints in 3 gallons of oil per acre and apply by aincraft between May 15 and June 15. On the sagebrush and Rambithrush: Use 4 prints per acre in 2 to 3 gallons of oil or in 3 to 5 gallons of oil-water errutision spray. Brush should be tealed out and growing actively when treated. Retreatment may be needed. Chamisa, Mazanita, Buckhrush, Ceastal Sage, Caylebrush, and Cartalo Other Chagarraft Species: Use 4 prints per acre in 5 to 10 gallons of vater. One gallon of hel oil may be included in the spray mixture for added effectiveness. Make applications by aincraft or ground equipment to obtain uniform spray coverage. For effective control, the brush must be fully lealed out and growing actively when sprayed. Retreatment may be needed. General Weel Control (Arribeids, Readcides, Vaccan Latz, Drainage Ditch Banks, Fence Rows, Indestrial Sites, and Similar Arast): Use 1 to 2 quarts per acre. Usually 2 quarts per acre will give adequate control. Do not use on herbaccous ground covers or creeping grass such as Bent, Legumes will usually be damageri or tailed. Deep-rooted perennials may require repeat applications. Do not use on freshly seeded turt until grass is well established. Delay reseeding for 30 days or until 2.4-D has disappeared from soil. The maximum number of broadcast applications per treatment site is 2 per year. Woody Plant Control: to control woody plants susceptible to 2.4-D, such as Alder, Buckbrush, Ederberry, Sumar, and Wildow on non-cong areas, use 2 quarts in 100 galons of water. We all parts of the plants thromughy, including stem and fokage, to the point of run off. Higher species may require retreatment next season

USES IN FORCET MANAGEMENT

USES IN FORTST MANAGEMENT Conter Release: For control of alder, apply 1 1/2 to 2 searts of product per acre in 8 to 25 gallens of water, and apply as a foliage spray between mid-May and mid-June. For control of madrone, manzanita, ouk, tanoak, and similar species to release herefock, spruce, and frs, apply 2 quarts of product per acre in 8 to 25 gallons of water, just prior to or during budoreak of Douglas fir. After northern conifers, jack pine, red pine, black spruce, and white spruce cease growth and "harden off" in tate summer, a spray of 1 1/2 to 2 quarts in 8 to 25 gallons of water per acre may be applied by air to control certain com-peting hardwood species such as alder, aspan, birch, fazel, and willow. Since this truatment may cause occasional com-peting hardwood species such as alder, conditions. For control of lazel brush and similar species in the Lake states area, apply 2 quarts of product per acre in 8 to 25 gallons of water, when new shoot growth of Hazel is complete. Site Preparation:

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And Programmit: (As Budbreak Spray)—for control of alder prior to planting seadings, apply 2 quarts of product per acre in 8 to 25 galons of water, after alder budbreak but before foliage is 144 full size (As foliage Spray)—for control of alder prior to planting seedings apply 2 quarts of product per acre in 8 to 25 galons of water, after most alder leaves are full size.

of water, and most abor leaves are two size. Aquatic Applications: For Aquatic Woods in Lakes, Ponds, Drainage Ditches, and Marshes: Use 2 1/2 to 4 pints of product in 50 to 100 galons of water per acre. Spray to wet toliage thoroughly. Application should be made when leaves are fully developed above waterline and plants are actively growing. Your State Conservation Department or Game and Fish Commission with assist you in determining the best time and rate for application under local conditions. D0 NOT APPLY to more than 1/3 to 1/2 of a take or pond in any one month because excessive decaying vegetation may devide counter contain of water and labels.

tay depiete oxygen content of water and kull fish. Perennial and other hard to control weeds may require a repeat application to give adequate control may

STORAGE AND DISPOSAL

STURRAGE: Do not contaminate water, lood, or feed by storage or disposal. Do not store near fertilizers, seeds, insec-licides, or fungicides. Do not use or store near heat or open flame. PESTICID: DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray muture, 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 to the period. at the nearest EPA Regional Office for guidance

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CONTAINER DISPOSAL: Topic rinse (or equivalent). Then ofter for recycling or reconditioning, or puncture and dispose of in a sanitary landial, or by other procedures approved by state and local authorities. WARRANTY AND LIMITATION OF DAMAGES Seller variants that this material conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use and Buyer assumes the risk of any use contrary to such directions. Seller maters no other express or implied warranty, including any other express or implied warranty of Fitness or of Marchantability, and no agent of Seller is authorized to do so except in writing with a specific reference to this warranty. In no event shall Seller's liability for any breach of warranty enceed the purchase price of the material as to which a claim is made

