

EPA Reg.No. 400-75

ACCEPTED

DEC - 2 1985

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 400-75

Uniroyal Chemical Company, Inc.
Middlebury, CT 06749

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**DIRECTIONS FOR USE
GENERAL INSTRUCTIONS**

DYANAP® is a herbicide for controlling certain broadleaf weeds in soybeans and peanuts. DYANAP may be applied preemergence or postemergence to either crop. For broader spectrum weed control DYANAP may be tank mixed with certain grass and broadleaf herbicides. DYANAP can also be applied after a preplant incorporated herbicide.

MIXING INSTRUCTIONS

Put one half the recommended amount of water in the spray tank, add the required amount of DYANAP and/or other herbicides, then add the remainder of the water to the tank while mixing. Stir or use bypass agitation until completely mixed. Calibrate sprayer accurately prior to use on crop.

Before tank mixing DYANAP with other recommended herbicides, read and carefully observe the precautionary statements and restrictions on each label. Add powdered formulations to spray mix first.

BE SURE SPRAY TANK HAS BEEN CLEANED OF ALL PREVIOUSLY USED PESTICIDES BEFORE FILLING WITH DYANAP SOLUTION.

DO NOT MIX DYANAP WITH LIQUID FERTILIZER SOLUTIONS SINCE SOLID PRECIPITATES MAY FORM.

DO NOT ADD SURFACTANTS OR ADJUVANTS TO DYANAP SPRAY SOLUTIONS.

GRAZING RESTRICTION: DO NOT GRAZE OR FEED TREATED HAY OR FORAGE FROM ANY TREATED CROP.

SOYBEANS

DIRECTIONS FOR USE

WEEDS CONTROLLED

Consult the chart for the weeds you need to control, then go the DYANAP RATE, TIMING TABLE to find out how to use DYANAP to control them. See the PREEMERGENCE and POSTEMERGENCE USE notes for additional information.

WEED CONTROL EXPECTED

WEED	PREEMERGENCE	POSTEMERGENCE	
		1-3 inches	3-6 inches
annual morningglories	partial	yes ²	yes ^{2,5}
black nightshade	partial ¹	no	partial
bristly starbur	yes	yes	yes
Canada thistle	no	partial ⁴	partial ⁴
carpetweed	yes ¹	no	no
chickweed	yes	no	no
cocklebur	partial	yes	yes ²
common ragweed	yes ¹	partial	no
Florida beggarweed	yes	no	no
Florida pusley	yes ¹	no	no
galinsoga	yes	no	no
giant ragweed (horseweed)	partial	yes ²	partial ²
jimsonweed	yes	yes	yes
lambsquarters	yes ¹	no	no
mustards	yes	yes	partial
pigweed	yes ¹	partial	no
purslane	yes ¹	no	no
shepherdspurse	yes	no	no
smartweed (seedling)	partial ¹	partial ²	no
velvetleaf	partial	no	no
wild buckwheat	partial	yes ²	yes
wild sunflower	partial	yes ²	partial ^{2,3}

1. LASSO® or DUAL® tank mix improves control.
2. Control is improved with tank mixes of BUTYRAC® 200 or BUTOXONE®.
3. Apply before 3-4 leaves fully open.
4. Burnback
5. Before vining begins.

Partial control refers to reducing competition from the weed so that the soybean may favorably compete with and outgrow the weed.

Note that good control of heavy infestations of large-seeded broadleaf weeds including cocklebur, giant ragweed and morningglory may require more management than a single preemergence to cracking stage treatment. Cultivation and or post emergence treatments may be required.

STAGE OF SOYBEAN WEED HEIGHT	RATE & TIMING TABLE		
	PREEMERGENCE	POSTEMERGENCE	
		1-3 inches	3-6 inches
Rate/acre broadcast	3-6 quarts ¹	1.5 - 3 quarts ^{2,3}	3-4 quarts ^{2,3}
GPA ⁴	20-40	8-10	8-10
PSI at nozzle	20-30	40-60	40-60
SUGGESTED NOZZLES	flat fan, flood and whirlchamber	hollow cone (TX) or disc and core	hollow cone (TX) or disc and core

1. A 3 quart rate of DYANAP may be used only on light sandy soil or when a supplemental postemergence DYANAP application is part of the weed control program. Soil temperatures of 60°F enhance activity.
2. Use the lower rate when temperatures are greater than 85°F and the higher rate when temperatures are 75°-85°F. If temperatures are below 75°F or above 95°F, delay application until appropriate temperatures are reached.
3. When low rates are used, weeds larger than 3 inches may not be killed and new weeds may emerge. A repeat application with 2 quarts of DYANAP per acre may be made after 10-14 days. Follow temperature guidelines in note 2.
4. DYANAP can be applied aerially. Use no more than 5 gallons of water and fly at 10-15 feet above tops of soybeans. Application of fine spray particles is essential. Do not apply when conditions favor drift from target area.

PREEMERGENCE THROUGH CROOK TREATMENTS

DYANAP Preemergence Treatments may be made at Planting through crook stage.



PLANTING

(immediately after seed is planted.)



CROOK

(from cracking to before the soybean cotyledons open.)

Preemergence Tank Mix Treatments

DYANAP plus LASSO Use Directions:

In addition to broadleaf weeds that DYANAP® will control, DYANAP plus LASSO® will control the following annual grasses and broadleaf weeds:

Crabgrass, barnyardgrass, goosegrass, Johnsongrass (seedling), fall panicum, witchgrass, broadleaf signalgrass, giant foxtail, green foxtail, yellow foxtail, black nightshade, hairy nightshade, red rice, and yellow nutsedge.

Use 6 quarts of DYANAP and 2 quarts of LASSO as tank mixture in 20 to 40 gallons of water per acre. On light sandy soils reduce rates by 25%. Reduce rates proportionally for band treatments.

DYANAP is not compatible with MICRO-TECH LASSO.

DYANAP plus SURFLAN Use Directions:

In addition to broadleaf weeds that DYANAP® will control, DYANAP plus SURFLAN 75W or SURFLAN A.S. will control the following annual grasses:

Crabgrass, barnyardgrass, goosegrass, Johnsongrass (seedling), fall panicum, witchgrass, broadleaf signalgrass, giant foxtail, green foxtail, sandbur, cupgrass, sprangletop, stinkgrass, and windmillgrass.

Apply in 20-40 gallons of spray mixture per acre as a band or broadcast application. Tank mixture rates are given in the following table. Reduce rates proportionally for band treatments. Apply before crop emerges.

DYANAP/SURFLAN Broadcast Rates Per Acre

SOIL TEXTURE	DYANAP	PLUS	OR	SURFLAN	
	Quarts			75W (Pounds)	A.S. (Quarts)
LIGHT SANDY SOILS	4½			2/3 - 1	½ - ¾
MEDIUM SOILS	6			1 - 1 1/3	¾ - 1
CLAY LOAM SOILS	6			1 1/3 - 1 2/3	1 - 1 1/4

NOTE: Do not apply this tank mix to emerged soybeans. Do not apply to any soils with over 5% organic matter. Do not use on silt loam soils of extremely fine textures.

DYANAP plus DUAL Use Directions:

In addition to broadleaf weeds that DYANAP will control, DYANAP plus DUAL®8E will control the following grasses and broadleaf weeds:

Crabgrass, barnyardgrass, goosegrass, fall panicum, giant foxtail, green foxtail, Johnsongrass (seedling), sandbur,* yellow foxtail, yellow nutsedge and witchgrass and black nightshade*.*

*DYANAP/DUAL will provide partial control.

Apply DUAL 8E + DYANAP in 20 - 40 gals. of spray mixture per acre during the interval preemergence during planting (behind the planter) through crookstage (from soil cracking to before soybeans true leaves open) according to the rates specified in the following table. Do not apply this tank mixture in liquid fertilizer.

DUAL/DYANAP

Soil Texture	Broadcast Rates Per Acre			
	Less Than 3% Organic Matter		3% Organic Matter or Greater	
	DUAL-8E	DYANAP	DUAL-8E	DYANAP
COARSE: Sand, Loamy Sand, Sandy Loam	1½ pints	4 - 5 quarts	1½ pints	4 - 5 quarts
MEDIUM: Loam, Silt Loam, Silt	1½ pints	6 quarts	2 pints	6 quarts
FINE: Silty Clay Loam, Sandy Clay Loam, Silty Clay, Sandy Clay, Clay Loam, Clay	2 pints	6 quarts	2-2½ pints	6 quarts
Muck or Peat Soils	DO NOT USE			

If ½-1 inch of rainfall does not occur within 7 days after application, shallow incorporation (½-1 inch) is recommended. Cultivate if weeds develop.

The following tank mix may be applied UP TO THE CRACKING STAGE of soybeans.

DYANAP plus SENCOR (after a preplant incorporated herbicide) OR SENCOR plus LASSO.

This tank mix may be applied UP TO THE SOIL CRACKING STAGE of soybeans.

Use Directions:

In addition to the broadleaf weeds and grasses that DYANAP/LASSO will control a three way tank mix will provide added control of:

Crowfootgrass, spurred anoda, buffalobur, Venice mallow, Sesbania (coffeebean or coffeeweed), sicklepod (cassia), prickly sida (teaweed), and spotted spurge.

Apply in 20-40 gallons of spray mixture per acre as a band or broadcast application. Tank mixture rates are given in the following table. Reduce rates proportionally for band treatments.

DYANAP/SENCOR/LASSO

Broadcast Rates Per Acre

Soil Texture	DYANAP	SENCOR			LASSO
	Quarts	50% Pounds	4F Pints	DF Pounds	4FC Quarts
Coarse^a Sandy Loam, Loamy Sand	2 to 4	½	½	1/3	1½
Medium Loam, Silt Loam, Silt, Sandy Clay, Sandy Clay Loam	3 to 4	¾ to 1	¾ to 1	½ to 2/3	3½ to 2
Fine Silty Clay, Silty Clay Loam ^b , Clay, Clay Loam	4	¾ to 1	¾ to 1	½ to 2/3	2

^a Not recommended on sandy soil with less than 1% organic matter.

^b Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.

NOTE: Do not apply this tank mix to emerged soybeans.

DYANAP/LEXONE/LASSO Use Directions:

May also be used as a preemergence treatment to control weeds in soybeans.

DYANAP/LEXONE/LASSO

Broadcast Rates Per Acre

Soil Texture	DYANAP	LEXONE			LASSO
	Quarts	50W Pounds	4L Pints	DF Pounds	4EC Quarts
COARSE: Sandy Loam, Loamy Sand	2	1/4 - 1/2	1/4 - 1/2	1/6 - 1/3	1 1/2 - 2
MEDIUM: Loam, Silt Loam, Silt, Sandy Clay, Sandy Clay Loam	3	1/2 - 3/4*	1/2 - 3/4*	1/3 - 1/2	2 - 2 1/2
FINE: Silty Clay, Silty Clay Loam ^b , Clay, Clay Loam	4	3/4 - 1*	3/4 - 1*	1/2 - 2/3*	2 - 3

*On Clarion Webster soils in Minnesota and Iowa or on similar alkaline (calcareous) soils with a pH of 7.5 or above, apply LEXONE® at 1/2 pound/acre on medium soils. On fine soils, use 1/2 to 3/4 pound/acre LEXONE. Use the higher rate only where soil is less than 7.5 and where weed pressure is heavy.

APPLICATION NOTES:

- NOTE 1. Soybean seed should be well covered with soil. Do not use on shallow planted or exposed seed.
- NOTE 2. Accurate sprayer calibration and thorough, uniform coverage of the soil is essential for good weed control.
- NOTE 3. Do not apply where water is standing in the field.
- NOTE 4. If heavy rains immediately follow a preemergence application of DYANAP, weed control normally will not be impaired. However, some stunting of growth or even stand reduction may be noted, especially in lighter soils. Cool soil temperatures may accentuate this condition. With the return of good growing conditions, the stunted plants will usually recover and maintain a normal growth pattern.
- NOTE 5. If replanting is necessary after DYANAP has been applied, thoroughly disc area prior to replanting.
- NOTE 6. Some rainfall or irrigation is needed to get DYANAP in contact with the germinating weed seeds. Rainfall or sprinkler irrigation amounting to 1/2-3/4 inches within 5 days after application is ideal. If neither has occurred within 7 days, shallow incorporation such as with a rotary hoe (1/2 - 1 inch) is recommended.

POSTEMERGENCE TREATMENTS

When weeds have emerged and soybean true leaves (unifoliolate) have opened, DYANAP should be applied with high pressure hollow cone type nozzles to obtain small spray droplets. Small droplets provide good coverage on weeds and normally are held off the soybean leaf surface by leaf hairs. Movement through the soybean leaf hairs could result in increased leaf injury. Leaf injury is minimized by following these precautions:

1. Use high pressure (40-60 psi).
2. Use low volume (8-10 gpa) apply by ground or 5 gpa by air.
3. Do not apply to wet soybean foliage. Wait until dew has evaporated.
4. Do not spray if rain is expected within 6 hours.
5. Do not use adjuvants or surfactants in the spray solution. Be sure all previous spray chemicals and spray adjuvants have been cleaned from sprayer.
6. Apply to actively growing soybeans.
7. Be sure spray boom is positioned above foliage to give complete coverage. This is usually 18-36" above the soybean tops.

POSTEMERGENCE TANK MIX: The addition of 1-2 fl. oz. of BUTYRAC® 200 or BUTOXONE® to the labeled rate of DYANAP may be used on soybeans after the first trifoliolate stage is reached. This tank mix will improve the control of larger and hard to kill weeds. Refer to the weed chart. Use lower rates on smaller weeds and soybeans. Use no more than 2 oz. BUTYRAC 200 or BUTOXONE during growing season.

The tank mix is very effective for the control of cocklebur from the time it emerges until it is 6 inches tall. DYANAP will suppress the growth of cocklebur and morningglory taller than 6 inches reducing their competition to the soybean crop. For best results, spray when weeds are small and succulent.

POSTEMERGENCE TREATMENT APPLICATION NOTES:

- NOTE 1. DYANAP may also be used as a directed spray. Adjust rates appropriately. Caution - soybean leaves contacted by the direct spray may be burned.
- NOTE 2. Do not apply when wind conditions favor drift to non-target areas.
- NOTE 3. Do not apply to soybeans that have been stressed by herbicide injury, draught, excessive water, diseases or nematodes. If applied under these conditions, soybean tolerance to DYANAP will be low and weed control will be impaired.
- NOTE 4. Do not use BUTYRAC 200 or BUTOXONE on stressed soybeans.

PEANUTS

Directions for Use Preemergence Treatments (Read and follow all General Instructions)

DYANAP will control the following broadleaf weeds:

Florida pusley, chickweed, lambsquarters, ragweed, purslane, velvetleaf, cocklebur, bindweed, groundcherry, mustards, shepherdspurse, pigweed, galinsoga, carpetweed, morningglory, beggarweed (beggar lice), teaweed (prickly sida), jimsonweed, smartweed, wild sunflower and bristly starbur.*

Ground Application:

Use 6 quarts of DYANAP in 20 to 40 gallons of water per acre broadcast. DYANAP may also be applied as a band treatment.

Preemergence treatments may be made at planting through soil cracking.

*partial control.

Preemergence Tank Mix Treatments

DYANAP® plus LASSO® Use Directions:

In addition to broadleaf weeds that DYANAP will control, DYANAP® plus LASSO® will control the following annual grasses:

Crabgrass, barnyardgrass, goosegrass, Johnsongrass (seedling), Fall panicum, witchgrass, broadleaf signalgrass, giant foxtail, green foxtail and yellow foxtail.

Use 6 quarts of DYANAP plus 2 quarts of LASSO as a tank mixture in 20 to 40 gallons of water per acre broadcast. Application may be made immediately after planting through cracking. Can be used as a sequential application after VERNAM® or BALAN®.

DYANAP is not compatible with MICRO-TECH LASSO.

DYANAP® plus DUAL® Use Directions:

In addition to broadleaf weeds that DYANAP will control, DYANAP plus DUAL will control:

Crabgrass, barnyardgrass, goosegrass, fall panicum, witchgrass, broadleaf signalgrass, giant foxtail, green foxtail, yellow foxtail, foxtail millet, southwestern cupgrass and yellow nutsedge.

This tank mix will partially control:

Black nightshade, coffeeweed, sandbur, johnsongrass (seedling), sicklepod, volunteer sorghum.

Use 6 quarts of DYANAP plus 1½-3 pints of DUAL as a tank mixture in 15-40 gallons of water per acre broadcast. Application may be made immediately after planting through cracking. Can be used as a sequential application after VERNAM®, BALAN®, or TREFLAN®.

Postemergence Treatments

An application of DYANAP by ground or air made over the top when the peanuts are 2 to 3 inches across the crown will control the following broadleaf weeds:

Morningglory, giant ragweed, pigweed, bristly starbur, prickly sida, common cocklebur, jimsonweed.

For best results, spray when the weeds are small and succulent.

Ground Application:

Apply 2 to 6 quarts of DYANAP in 8 to 10 gallons of water per acre (broadcast rate). The spray boom should be positioned 18" -36" above the tops of the peanuts and be equipped with hollow cone nozzles. Maintain a high spray pressure (i.e. 40 to 50 PSI) during application. This insures a fine spray mist for better overall coverage. Use 2 to 4 quarts of DYANAP on broadleaf weeds up to 3 inches tall, such as jimsonweed, morningglory, and pigweed or use 6 quarts if the weed pressure is heavy. DYANAP is very effective for the control of cocklebur from the time it emerges until it is 6 inches tall. DYANAP will suppress the growth of cocklebur and morningglory taller than 6 inches, reducing their competition to the peanut crop. For best results in Texas and Oklahoma, use 4-6 quarts per acre.

Aerial Application:

Apply 2 to 6 quarts of DYANAP in a minimum amount of 5 gallons of water per acre and follow instructions given for ground application above.

AERIAL APPLICATION NOTES

NOTE 1. Fly plane 10 to 15 feet above the tops of the peanuts.

NOTE 2. Do not apply when weather conditions favor drift from area treated.

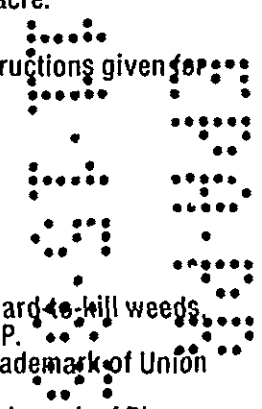
NOTE 3. DO NOT fly closer than 50 feet to any cotton crop.

Postemergence Tank Mix Treatment

A tank mix of DYANAP plus BUTYRAC* 200 or BUTOXONE** will improve the control of larger and hard-to-kill weeds. For peanuts grown in the Southeast add 1¼ to 3½ fl. oz. of BUTYRAC 200 or BUTOXONE and DYANAP.

*BUTYRAC 200 contains 2 lbs/gallon of 4-(2,4-dichlorophenoxy) butyric acid and is a registered trademark of Union Carbide.

**BUTOXONE contains 1.75 lbs/gallon of 4-(2,4-dichlorophenoxy) butyric acid and is registered trademark of Rhone-Poulenc, Inc.



Postemergence Treatment Application Notes:

NOTE 1. Applications should not be made to wet peanut foliage.

NOTE 2. Do not use surfactants with DYANAP in overtop applications.

NOTE 3. Delay spray application if rain is expected within 6 hours of spraying.

NOTE 4. Under extreme drought conditions and low humidity weeds are harder to control. DYANAP effect on weeds sprayed under these conditions is lessened and weed control will be impaired.

NOTE 5. Do not mix DYANAP with liquid fertilizer solutions.

IMPORTANT NOTICE — Seller warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with the directions and instructions specified on the label under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product, contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

BUTYRAC 200 contains 2 lbs/gallons of 4-(2,4-dichlorophenoxy) butyric acid and is a registered trademark of Union Carbide.

BUTOXONE contains 1.75 lbs/gallon of 4-(2,4-dichlorophenoxy) butyric acid and is registered trademark of Rhone-Poulenc, Inc.

DUAL is a registered trademark of Ciba Geigy Corp.

LASSO is a registered trademark of Monsanto Agricultural Products Co.

LEXONE is a registered trademark of E.I duPont de Nemours & Co., Inc.

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