

ACCEPTED

Aug 29, 1966

UNDER THE FEDERAL INSECTICIDE
FUNGICIDE AND RODENTICIDE ACT
FOR ECONOMIC POISON REGISTERED
UNDER NO. 1386-43

UNICO

2,4-D AMINE WEED KILLER

ACTIVE INGREDIENTS:

Dimethylamine salt of 2,4-dichlorophenoxy-
acetic acid* 49 %
INERT INGREDIENTS 51 %

Total 100 %

*Equivalent to 40.7% 2,4-dichlorophenoxyacetic acid
CONTAINS 4 LBS. 2,4-D ACID EQUIVALENT PER GALLON

CAUTION

KEEP OUT OF THE REACH OF CHILDREN.

See Remainder of Caution Statement on This Label.

USDA Reg. No. 1386-43

NET VOLUME 1 U.S. PINT LIQUID

FC-192B-12-65 MANUFACTURED BY PROD. 102

UNITED CO-OPERATIVES, INC.

Alliance, Ohio

CLUSIVELY FOR SPOT TREATMENT WHERE SUCH INJURY CAN BE TOLERATED. Repeated
treatment, if new weed growth occurs, may be necessary to maintain control.

PREPARATION OF SPRAY AND APPLICATION—Above quantities of UNICO 2,4-D Amine
Weed Killer should be added to water in the spray tank at time of application. Adjust or
size 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 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 cer-
tain instances. When using a high pressure sprayer, apply in 150 to 200 gallons of water
per acre. Always use the proper amount of this 2,4-D weed killer per unit area regardless
of the quantity of water.

SMALL QUANTITIES—For mixing and applying small quantities, use the following equiv-
alents:

Dosage Per	Amount Per	Dosage Per	Amount Per
Acre	1,000 Sq. Ft.	Acre	1,000 Sq. Ft.
1/4 Pint	1 1/4 Teaspoonful	2 1/2 Pint	3 1/2 Teaspoonful
1 Pint	2 1/4 Teaspoonful	4 Pint	7 Teaspoonful
2 Pint	4 1/2 Teaspoonful	6 Pint	10 1/2 Teaspoonful

The dosage rates applied with low-volume power sprayers in 15 gallons of water per
acre may usually be applied by means of hand or knapsack sprayers in 5 to 4 gallons of
water per 1,000 square feet.

CAUTION

AVOID CONTACT WITH EYES, SKIN OR CLOTHING. DO NOT STORE NEAR FERTILIZERS,
SEEDS, INSECTICIDES, OR FUNGICIDES.

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,
corn, 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. Coarse sprays are
less likely to drift.

Do not use on creeping grasses, such as bent. Most legumes, including white clover, are
usually damaged, and under some conditions, killed.

Do not contaminate any body of water, especially domestic or irrigation water supplies.
Do not graze or feed forage from treated areas to dairy animals within 7 days after
treatment.

Residual amounts of 2,4-dichlorophenoxyacetic acid in the soil may temporarily inhibit
seed germination or plant growth.

CLEANING SPRAY EQUIPMENT—It is almost impossible to remove residue of 2,4-D
from crevices and spray equipment, particularly from non-metallic parts (wood, rubber, plastic),
and it is advisable NOT to use the same equipment for applying other materials to plants or
crops. However, if metal equipment only which was used for applying 2,4-D must be used
also for other purposes, it first should be cleaned, as follows:

1. Immediately after use, flush equipment thoroughly with water.
2. Fill tank with water, add and mix thoroughly, either (a) 1 quart household ammonia
per 25 gallons of water (2 1/2 tablespoonsful per gallon), or (b) 2 pounds soda ash
per 100 gallons of water (2 teaspoonfuls per gallon).
3. Spray out small amount of solution and leave remainder in tank, pump, boom, hose,
and attachments for 18 to 24 hours.
4. Then, drain and rinse several times with water, spraying considerable quantities through
nozzles each time.

This cleaning procedure is generally adequate for 2,4-D tolerant crops, such as corn,
grain, and small grains, but often does not render the equipment safe for 2,4-D sensitive
crops, such as alfalfa, beans, and tomatoes, and use of such cleaned equipment
on 2,4-D sensitive plants is entirely at users own risk.

NOTICE

The seller makes no implied warranty of merchantability nor any other warranties which
extend beyond the description on the face hereof.

U.S. Pat. 2,720,941 2,720,942 2,721,347 2,894,914
2,412,510 2,453,783 U.S. No. 23,116

UNICO 2,4-D Amine Weed Killer

DIRECTIONS FOR USE

UNICO 2,4-D Amine Weed Killer should be used as a diluted spray for selective con-
trol of susceptible weeds growing in small grain crops, corn, sorghum, established grasses,
lawns and turf, and for non-selective control of certain weeds not in growing crops, such
as roadside, fence rows, and ditchbanks.

Apply UNICO 2,4-D Amine Weed Killer when the weeds are young and are in a suc-
cumbent, rapidly growing condition, since best results are obtained when soil moisture and
temperature conditions are favorable for rapid growth of weed plants. Sprays applied
when weeds have stopped growing rapidly, or when they are affected by a lack of moisture
in the soil, are often not effective against many kinds of weeds. Spray perennial weeds
after they are completely senesced, 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.

SMALL GRAIN CROPS (Wheat, Oats, Barley, Rye)—Use 1 pint per acre to control
susceptible broadleafed weeds, such as mustard, ragweed, lamb's-ear, cockspur, plantain,
morning glory (annual), daisy fleabane, pigweed, wild radish, buckhorn, bull thistle, burdock,
dandelion, stinging nettle, and sunflower. Apply in the spring after grain plants are
well tillered (usually 4 to 8 inches tall), but before the boot stage. Do not apply during
seedling stage, late jointing stage, or after heading begins. Do not use on grain inter-
planted with legumes, unless probable injury to the legume crop can be tolerated.

CORN—For post-emergence treatment, use 1 pint per acre to control susceptible broad-
leafed weeds, such as ragweed, lamb's-ear, morning glory (annual), cockspur, and pig-
weed. Band under small grain crops. Apply when weeds are up, but still small, and corn
is 4 to 18 inches tall. Corn at 4 to 6-inch stage is more resistant to injury and the broad-
leafed weeds are more susceptible to control than at earlier or later stages. Avoid direct
spraying of growing point of corn. In corn 18 inches or more tall, use drop nozzles to
keep spray off corn leaves. Avoid spraying immediately after a period of hot, moist weather.
Injury to corn may occur when hot, dry weather closely follows treatment. Avoid cultivation
for 10 to 14 days after spraying to reduce possibility of stalk breakage. Hybrid corn should
be sprayed only if the corn 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.

SORGHUM—Use same rate of application as directed for post-emergence treatment of
corn, and apply when sorghum is in the 4 to 12-inch stage of growth to control the
susceptible broadleafed weeds. Precautions regarding application in corn also apply to sorghum.
ESTABLISHED GRASSES, PASTURES, BOLD PASTURES, AND PASTURES—Use 1 to 1 1/2 pints
per acre applied as a spray after grasses are well tillered, but before reaching the boot stage,
to control most susceptible broadleafed weeds. Do not apply in the seedling or heading
stages. Do not apply to bent and creeping grasses.

To control wild garlic and wild onion, two applications each year for 2 or more years
are usually required. One application should be made during the fall period, October to
December, and the other during the period, February to May.

ROADSIDES, FENCE ROWS, AND DITCHBANKS—To control susceptible broadleafed weeds
on uncultivated areas, use 1 1/2 to 2 pints per acre to control susceptible broadleafed weeds,
and apply during early stage of growth. Repeat as necessary to maintain control. Application
by hand or knapsack sprayer may be made by using 1 to 2 teaspoonfuls per gallon of water;
apply spray at rate of 1 gallon per square rod.

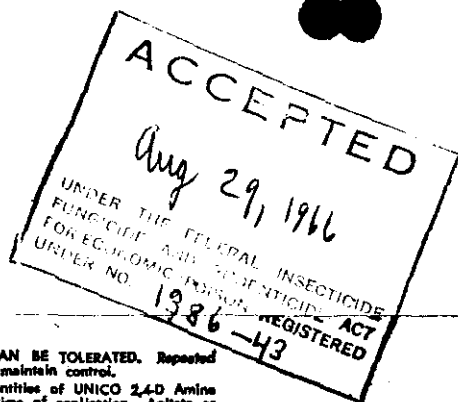
RESISTANT WEEDS—To control certain broadleafed weeds, such as Jimsonweed, prickly
lettuce, mallow, purslane, shepherd's purse, smartweed, henbit, buttercup, wild carrot, docks,
policeman, common milkweed, and sheep sorrel usually requires a considerably higher dosage
rate than is recommended for growing crops. These resistant weeds usually may be con-
trolled in localized areas or spots by applying 4 to 6 pints per acre (1 to 1 1/2 tablespoonful
per gallon per square rod) when the plants are young and growing vigorously. THIS HIGH
DOSAGE RATE CANNOT BE USED IN SMALL GRAIN CROPS, CORN, SORGHUM AND GRASS.
WITHOUT CAUSING SEVERE INJURY, AND CONSEQUENTLY ITS USE MUST BE EX-

1386-43

08/29/66

1/4

50



2,4-D AMINE WEED KILLER

INGREDIENTS

ACTIVE INGREDIENTS:	
Dimethylamine salt of 2,4-dichlorophenoxyacetic acid*	49 %
INERT INGREDIENTS	
	51 %
Total	100 %
*Equivalent to 40.7% 2,4-dichlorophenoxyacetic acid	
CONTAINS 4 POUNDS 2,4-D ACID EQUIVALENT PER GALLON	

CAUTION

KEEP OUT OF THE REACH OF CHILDREN.
See Remainder of Caution Statement on This Label.
USDA Reg. No. 1384-43

NET VOLUME 1 U.S. QUART LIQUID
FC-1218-5-66 PROD. 102

MANUFACTURED BY

UNITED CO-OPERATIVES, INC.
ALLIANCE, OHIO

UNICO 2,4-D Amine Weed Killer

DIRECTIONS FOR USE

UNICO 2,4-D Amine Weed Killer should be used as a diluted spray for selective control of susceptible weeds growing in small grain crops, corn, sorghum, established grasses, lawns and turf, and for non-selective control of certain weeds not in growing crops, such as roadsides, fence rows, and ditchbanks.

Apply UNICO 2,4-D Amine Weed Killer 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. Sprays applied when weeds have stopped growing rapidly, or when they are affected by a lack of moisture in the soil, are often not effective against many kinds of weeds. Spray perennial weeds after they are completely mowed, 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.

SMALL GRAIN CROPS (Wheat, Oats, Barley, Rye).—Use 1 pint per acre to control susceptible broadleaved weeds, such as mustard, rapeseed, lambquarters, cocklebur, plantain, morning glory (annual), daisy fleabane, pigweed, wild radish, buckhorn, bull thistle, burdock, dandelion, stinging nettle, and sunflowers. Apply in the spring after grain plants are well tillered (usually 4 to 8 inches tall), but before the boot stage. Do not apply during seedling stage, late jointing stage, or after heading begins. Do not use on grain interplanted with legumes, unless probable injury to the legume crop can be tolerated.

CORN.—For post-emergence treatment, use 1 pint per acre to control susceptible broadleaved weeds, such as ragweed, lambquarters, morning glory (annual), cocklebur, and pigweed, listed under small grain crops. Apply when weeds are up, but still small, and corn is 4 to 18 inches tall. Corn at 4 to 5-inch stage is more resistant to injury and the broadleaved weeds are more susceptible to control than at earlier or later stages. Avoid direct spraying of growing point of corn. In corn 10 inches or more tall, use drop nozzles to keep spray off corn leaves. Avoid spraying immediately after a period of hot, moist weather. Injury to corn may occur when hot, dry weather closely follows treatment. Avoid cultivation for 10 to 14 days after spraying to reduce possibility of stalk breakage. Hybrid corn should be sprayed only if the cross on 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.

SORGHUM.—Use same rate of application as directed for post-emergence treatment of corn, and apply when sorghum is in the 4 to 12-inch stage of growth to control the susceptible broadleaved weeds. Precautions regarding application in corn also apply to sorghum.

ESTABLISHED GRASSES, PASTURES, GOLF FAIRWAYS, AND PARKS.—Use 1 to 1½ pint per acre applied as a spray after grasses are well tillered, but before reaching the boot stage to control most susceptible broadleaved weeds. Do not apply in the seedling or heading stages. Do not apply to bent and creeping grasses.

To control wild garlic and wild onion, two applications each year for 2 or more years are usually required. One application should be made during the fall period, October 1 to December, and the other during the period, February to May.

This treatment is likely to cause injury to legumes interplanted with grass. **ROADSIDES, FENCE ROWS, AND DITCHBANKS.**—To control susceptible broadleaved weeds on unplanted areas, use 1½ to 2 pints per acre to control susceptible broadleaved weeds and apply during early stage of growth. Repeat as necessary to maintain control. Application by hand or knapsack sprayer may be made by using 1 to 2 teaspoonsful per gallon of water spray at rate of 1 gallon per square rod.

RESISTANT WEEDS.—To control certain broadleaved weeds, such as jimsonweed, prick lettuce, mallow, purslane, shepherd's purse, smartweed, henbit, buttercup, wild carrot, dock, pokeweed, common mullen, and sheep sorrel usually requires a considerably higher dosage rate than is recommended for growing crops. These resistant weeds usually may be controlled in localized areas or spots by applying 4 to 6 pints per acre (1 to 1½ tablespoonsful per gallon per square rod) when the plants are young and growing vigorously. THIS HIGH DOSAGE RATE CANNOT BE USED IN SMALL GRAIN CROPS, CORN, SORGHUM AND GRASS WITHOUT CAUSING SEVERE INJURY, AND CONSEQUENTLY ITS USE MUST BE LIMITED TO LOCALIZED AREAS.

CLUSIVELY FOR SPOT TREATMENT WHERE SUCH INJURY CAN BE TOLERATED. Repeated treatments, if new weed growth occurs, may be necessary to maintain control.

PREPARATION OF SPRAY AND APPLICATION.—Above quantities of UNICO 2,4-D Amine Weed Killer 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 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 200 gallons of water per acre. Always use the proper amount of this 2,4-D weed killer per unit area regardless of the quantity of water.

SMALL QUANTITIES.—For mixing and applying small quantities, use the following equivalents:

Dosage Per Acre	Amount Per 1,000 Sq. Ft.	Dosage Per Acre	Amount Per 1,000 Sq. Ft.
½ Pint	1½ Teaspoonful	2½ Pint	5½ Teaspoonful
1 Pint	2½ Teaspoonful	4 Pint	3 Tablespoonful
2 Pint	4½ Teaspoonful	6 Pint	4½ Tablespoonful

The dosage rates applied with low-volume power sprayers in 15 gallons of water per acre usually be applied by means of hand or knapsack sprayers in 3 to 4 gallons of water per 1,000 square feet.

CAUTION

AVOID CONTACT WITH EYES, SKIN OR CLOTHING. DO NOT STORE NEAR FERTILIZERS, SEEDS, INSECTICIDES, OR FUNGICIDES.

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. Coarse sprays are less likely to drift.

Do not use on creeping grasses, such as bent. Most legumes, including white clover, are usually damaged, and under some conditions, killed.

Do not contaminate any body of water, especially domestic or irrigating water supplies. Do not graze or feed forage from treated areas to dairy animals within 7 days after treatment.

Excessive amounts of 2,4-dichlorophenoxyacetic acid in the soil may temporarily inhibit seed germination or plant growth.

CLEANING SPRAY EQUIPMENT.—It is almost impossible to remove residues of 2,4-D 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. However, if metal equipment only which was used for applying 2,4-D must be used also for other purposes, it first should be cleaned, as follows:

1. Immediately after use, flush equipment thoroughly with water.
2. Fill tank with water, add and mix thoroughly, either (a) 1 quart household ammonia per 25 gallons of water (2½ tablespoonsful per gallon), or (b) 2 pounds soda ash per 100 gallons of water (2 teaspoonsful per gallon).
3. Spray out small amount of solution and leave remainder in tank, pump, boom, hose, and attachments for 18 to 24 hours.
4. Then, drain and rinse several times with water, spraying considerable quantities through nozzles each time.

This cleaning procedure is generally adequate for 2,4-D tolerant crops, such as corn, grasses, and small grains, but often does not render the equipment safe for 2,4-D sensitive plants or crops, such as alfalfa, beans, and tomatoes, and use of such cleaned equipment on 2,4-D sensitive plants is entirely at users own risk.

NOTICE

The seller makes no implied warranty of merchantability nor any other warranties which extend beyond the description on the face hereof.

U.S. Pat. 2,390,941	2,396,513	2,472,347	2,394,916
2,412,510	2,453,983	U.S. Re. 23,116	



UNICO 2,4-D AMINE WEED KILLER

DIRECTIONS FOR USE

UNICO 2,4-D Amine Weed Killer should be used as a diluted spray for selective control of susceptible weeds growing in small grain crops, corn, sorghum, established grasses, lawns and turf, and for non-selective control of certain weeds not in growing crops, such as roadsides, fence rows, and ditchbanks.

Apply UNICO 2,4-D Amine Weed Killer 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. Sprays applied when weeds have stopped growing rapidly, or when they are affected by a lack 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.

SMALL GRAIN CROPS (Wheat, Oats, Barley, Rye)—Use 1 pint per acre to control susceptible broadleaved weeds, such as mustard, ragweed, lambquarters, cocklebur, plantain, morning glory (annual), daisy fleabane, pigweed, wild radish, buckhorn, bull thistle, burdock, dandelion, stinging nettle, and sunflowers. Apply in the spring after grain plants are well tillered (usually 4 to 8 inches tall), but before the boot stage. Do not apply during seedling stage, late jointing stage, or after heading begins. Do not use on grain interplanted with legumes unless probable injury to the legume crop can be tolerated.

CORN—For post-emergence treatment, use 1 pint per acre to control susceptible broadleaved weed, such as ragweed, lambquarters, morning glory (annual), cocklebur, and pigweed, listed under small grain crops. Apply when weeds are up, but still small, and corn is 4 to 18 inches tall. Corn at 4 to 5-inch stage is more resistant to injury and the broadleaved weeds are more susceptible to control than at earlier or later stages. Avoid direct spraying of growing point of corn. In corn 10 inches or more tall, use drop nozzles to keep spray off corn leaves. Avoid spraying immediately after a period of hot, moist weather. Injury to corn may occur when hot, dry weather closely follows treatment. Avoid cultivation for 10 to 14 days after spraying to reduce possibility of stalk breakage. Hybrid corn 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 treatment.

SORGHUM—Use same rate of application as directed for post-emergence treatment of corn, and apply when sorghum is in the 4 to 12-inch stage of growth to control the susceptible broadleaved weeds. Precautions regarding application in corn also apply to sorghum.

ESTABLISHED GRASSES, PASTURES, GOLF FAIRWAYS, AND PARKS—Use 1 to 1½ pints per acre applied as a spray after grasses are well tillered, but before reaching the boot stage, to control most susceptible broadleaved weeds. Do not apply in the seedling or heading stages. Do not apply to bent and creeping grasses.

To control wild garlic and wild onion, two applications each year for 2 or more years are usually required. One application should be made during the fall period, October to December, and the other during the period, February to May. This treatment is likely to cause injury to legumes interplanted with grass.

ROADSIDES, FENCE ROWS, AND DITCHBANKS—To control susceptible broadleaved weeds on unplanted areas, use 1½ to 2 pints per acre to control susceptible broadleaved weeds, and apply during early stage of growth. Repeat as necessary to maintain control. Application by hand or knap-sack sprayer may be made by using 1 to 2 teaspoonfuls per gallon of water; apply spray at rate of 1 gallon per square rod.

RESISTANT WEEDS—To control certain broadleaved weeds, such as jimsonweed, prickly lettuce, mallow, purslane, shepherd's purse, smartweed, henbit, buttercup, wild carrot, docks, pokeweed, common mullein, and sheep sorrel usually requires a considerably higher dosage rate than is recommended for growing crops. These resistant weeds usually may be controlled in localized areas or spots by applying 4 to 6 pints per acre (1 to 1½ tablespoonful per gallon per square rod) when the plants are young and growing vigorously. **THIS HIGH DOSAGE RATE CANNOT BE USED IN SMALL GRAIN CROPS, CORN, SORGHUM, AND GRASS.**

ACCEPTED

Aug 29, 1944

UNDER THE FEDERAL INSECTICIDE
FUNGICIDE AND RODENTICIDE ACT
FOR ECONOMIC POISON REGISTERED
UNDER NO. 1386-43

2,4-D AMINE WEED KILLER

INGREDIENTS

ACTIVE INGREDIENTS:

Dimethylamine salt of 2,4-dichlorophenoxyacetic acid*

49%

INERT INGREDIENTS

51%

Total 100%

*Equivalent to 40.7% 2,4-dichlorophenoxyacetic acid

CONTAINS 4 POUNDS 2,4-D ACID EQUIVALENT PER GALLON

CAUTION

KEEP OUT OF THE REACH OF CHILDREN.
SEE REMAINDER OF CAUTION STATEMENT ON THIS LABEL.

USDA Reg. No. 1386-43

NET VOLUME

FC-123J-2-66

5 U.S. Gallons Liquid

PROD. 102

MANUFACTURED BY

7/4

WITHOUT CAUSING SEVERE INJURY, AND CONSEQUENTLY ITS USE MUST BE EXCLUSIVELY FOR SPOT TREATMENT WHERE SUCH INJURY CAN BE TOLERATED. Repeated treatments, if new weed growth occurs, may be necessary to maintain control.

PREPARATION OF SPRAY AND APPLICATION—Above quantities of UNICO 2,4-D Amine Weed Killer 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 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 200 gallons of water per acre. Always use the proper amount of this 2,4-D weed killer per unit area regardless of the quantity of water.

SMALL QUANTITIES—For mixing and applying small quantities, use the following equivalents:

Dosage per Acre	Amount per 1,000 Sq. Ft.	Dosage per Acre	Amount per 1,000 Sq. Ft.
$\frac{1}{2}$ Pint	1 $\frac{1}{2}$ Teaspoonful	2 $\frac{1}{2}$ Pint	5 $\frac{1}{2}$ Teaspoonful
1 Pint	2 $\frac{1}{2}$ Teaspoonful	4 Pint	3 Tablespoonful
2 Pint	4 $\frac{1}{2}$ Teaspoonful	6 Pint	4 $\frac{1}{2}$ Tablespoonful

The dosage rates applied with low-volume power sprayers in 15 gallons of water per acre may usually be applied by means of hand or knapsack sprayers in 3 to 4 gallons of water per 1,000 square feet.

CAUTION

AVOID CONTACT WITH EYES, SKIN OR CLOTHING. DO NOT STORE NEAR FERTILIZERS, SEEDS, INSECTICIDES, OR FUNGICIDES.

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. Coarse sprays are less likely to drift. Do not use on creeping grasses, such as bent. Most legumes, including white clover, are usually damaged, and, under some conditions, killed.

Do not contaminate any body of water, especially domestic and irrigating water supplies. Do not graze or feed forage from treated areas to dairy animals within 7 days after treatment.

Excessive amounts of 2,4-dichlorophenoxyacetic acid in the soil may temporarily inhibit seed germination or plant growth.

CLEANING SPRAY EQUIPMENT—It is almost impossible to remove residues of 2,4-D 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. However, if metal equipment only which was used for applying 2,4-D must be used also for other purposes, it first should be cleaned, as follows:

1. Immediately after use, flush equipment thoroughly with water.
2. Fill tank with water, add and mix thoroughly, either (a) 1 quart household ammonia per 25 gallons of water (2 $\frac{1}{2}$ tablespoonfuls per gallon), or (b) 2 pounds soda ash per 100 gallons of water (2 teaspoonfuls per gallon).
3. Spray out small amount of solution and leave remainder in tank, pump, boom, hose, and attachments for 18 to 24 hours.
4. Then, drain and rinse several times with water, spraying considerable quantities through nozzles each time.

This cleaning procedure is generally adequate for 2,4-D tolerant crops, such as corn, grasses, and small grains, but often does not render the equipment safe for 2,4-D sensitive plants or crops, such as alfalfa, beans, and tomatoes, and use of such cleaned equipment on 2,4-D sensitive plants is entirely at users own risk.

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U.S. Pat. 2,390,941 2,396,513 2,472,347 2,304,916
 2,412,510 2,453,883 U. S. Re. 23,116