

DALAPON GRASS KILLER

ACTIVE INGREDIENTS:

Sodium salt of dalapon
(2,2-Dichloropropionic Acid) 85%
[DALAPON (2,2-Dichloropropionic
Acid) equivalent 74%]

INERT INGREDIENTS: 15%
..... 100%

CAUTION

KEEP OUT OF REACH OF CHILDREN

Read Complete Precautions On Side Panel

-259
EPA Reg. No. 3125-259

Applications 10 to 20 days
before planting grass. Tillage two
times suggested if the land is
plowed or the next spring crop
is corn or sorghum.

10 to 20 pounds of DALAPON per
acre before or after planting
control such grasses as
johnsongrass. Use propor-
tionate amount per acre in a band or drill
application, designed to wet the
soil as little as possible,
for best information, consult
your local experiment station.

INSTRUCTIONS: Dissolve the
dalapon in water for good spray

Control Quackgrass: Use 15
pounds of DALAPON per acre
on land to be planted to
beans, corn and
potatoes. Application can be
made in October and possibly
in November. Quackgrass should be
controlled before planting.
Treated areas can be
plowed, or plowing can be
delayed. Some established sods
may be obtained if the sod is first
killed and regrowth sprayed.

Control Quackgrass: Early
planting of DALAPON per acre
on land to be planted to crops
such as corn and potatoes, about
when grass is 4 to 6 inches
high. After spraying, wait at least 4
weeks and another 4 to 5 weeks
before planting to DALAPON. If
planting is delayed, the waiting period will be
shorter.

Control Quackgrass: Use on land to
be planted to beans, corn or sorghum.
Use 10 pounds of DALAPON per acre as a
preemergence treatment. When johnsongrass is 8 to
10 inches high, apply 10 pounds of DALAPON per
acre. After spraying wait 4 to 6 weeks before
planting. Use 10 pounds of DALAPON per acre
as a postemergence treatment. When johnsongrass
is 8 to 10 inches high, apply 10 pounds of
DALAPON per acre. After spraying wait 4 to 6
weeks before planting.

are very small and growing actively. Apply with
leaf-lifting equipment. This will minimize spray
contact on the beet leaves.

NOTE: The spray may be applied broadcast or in
bands. For band treatments the amount of
DALAPON needed per acre will be reduced in
proportion to the reduction in amount of area ac-
tually sprayed. Use no more than 8 pounds
DALAPON post-emergence per acre in any single
growing season. Beet tops (or roots) may be fed to
livestock.

DECIDUOUS FRUIT ORCHARDS AND GRAPE PLANTINGS

GENERAL RECOMMENDATIONS: To control
perennial grasses such as quackgrass, johnsongrass
and bermudagrass use rates of DALAPON grass
killer as recommended for each crop listed below
plus 2 to 4 pints of a non-ionic wetting agent in 75 to
100 gallons of water per acre. Apply as a directed
spray to the orchard floor after grasses have begun
to grow well in the spring but before seed heads
form. In all cases spray to just wet grass without
runoff. Do not disturb by mowing or cultivating
early spring grass growth before spraying. Apply
when soil moisture is high such as soon after rainfall
or irrigation. Re-treat as needed, but apply no more
than twice in any growing season. Do not disc or
disturb treated grass sooner than 4 weeks after
spraying. Discing after this interval may improve
control.

APRICOTS, PEACHES, PLUMS (PRUNES):
Bearing and nonbearing in western areas. Use at
rate of 6 to 7 pounds of DALAPON per acre on
broadcast basis. Apply as a directed spray to a 4 to 8
foot wide band on each side of tree row or apply as a
spot treatment only to areas where grasses are a
problem. For band or spot treatment the amount of
spray should be reduced proportionate to the area
actually sprayed. Spray to just wet without runoff.
Apply when grasses have begun growing well in the
spring but before heading. Re-treat as needed, but
use no more than twice in any one growing season.
Keep spray off crop foliage and fruit and do not
apply within 30 days of harvest. Do not graze
livestock on treated areas.

PEACHES: Bearing and non-bearing in other than
western areas. For spot treating use 1 pound of
DALAPON per 20 gallons of water and spray grass
to just wet without runoff. As directed spray use 10
pounds of DALAPON per acre on broadcast basis.

This is equivalent to an over-all rate of 2 pounds of
DALAPON plus 1/2 pound of 2,4-D per acre for band
application. The amount used should be propor-
tionate to area actually sprayed. Keep spray off
corn leaves by using a leaf-lifter equipped with 95
degree even coverage flat fan nozzle tips, and
directing the spray. Spray only the lower half of the
corn stalks below the lifted leaves but in no case
higher than 7 inches above the ground. Apply
carefully with emphasis on sprayer calibration,
spray pattern width, height of spray on corn and
rate of DALAPON. Best results are obtained by
spraying when grass and weeds are small and not as
tall as the corn. Use of a rotary hoe soon after corn
emergence will delay grass and weed growth so that
the corn will be taller than the weeds and grass when
spray is applied. Quick kill should not be expected,
but treated grass and weeds will be stunted or die
back and remain in a non-competitive condition. This
also discourages reinvasion of new seedlings.
CAUTION: Do not use on corn grown for seed.

FIELD CORN: Early Postemergence: To control
seedlings of annual grasses such as green, yellow,
and giant foxtail and of annual broadleaf weeds such
as lambsquarters, pigweed, and wild mustard use 1/2
pound of DALAPON plus 1 to 2 pounds of Atrazine 80
percent wettable powder plus 1 to 1 1/2 gallons of
emulsifiable crop oil per acre as a tank mix com-
bination with water to make 10 to 20 gallons total
spray. Apply as an overall spray when weeds and
grass are less than 1 1/2 inches tall and corn is in the
spike to 4-leaf stage. Consult your State agricultural
experiment station or extension service weed
specialist for local use directions. Prepare the spray
by dissolving DALAPON in the required amount of
water contained in a spray tank. Using a convenient
container, make a thin slurry of Atrazine
80 percent wettable powder in water, thoroughly
wetting the Atrazine, and add to the solution of
DALAPON. Add the oil last. Provide continuous
agitation in the spray tank during mixing, holding,
and spraying operations to keep the spray uniformly
mixed.

ASPARAGUS: To control quackgrass, apply 10
pounds of DALAPON per acre before cutting and 3
to 4 weeks later as needed. With a single treatment,
use 20 pounds of DALAPON either before or after
the cutting season. For bermudagrass control, apply
20 pounds of DALAPON per acre either before or
after the cutting season, and a second spray of 10
pounds as needed. **NOTE:** During the cutting

CRANBERRIES: Ditch and Shore Treatment: Use
20 pounds of DALAPON in 200 to 300 gallons of water
per acre to control cattails, cutgrass, poverty grass,
bur-reed and common rushes and sedges in
irrigation and drainage ditches and along shore
areas of cranberry bogs. Make the first application
usually in early June, when weeds are growing well
but before seed heads form. Make second ap-
plication as needed but not later than July 31. Apply
the spray to thoroughly wet the weedy vegetation.
Keep spray off cranberry foliage.

Vine Treatment: Use ten pounds of DALAPON in
about 300 gallons of water per acre on cranberry
bogs to control summergrass, cutgrass, pove-
tygrass, wamsy, warty panicgrass, bunchgrass,
wide leaf grasses, round rush and sedge weeds.
Treatment should be made only after harvest in
October and early November. **Caution:** This
treatment may reduce the next season's crop. For
example, on the Howes variety the crop may be
reduced only slightly whereas on Early Blacks it
may be reduced up to 75 percent and on certain
varieties as much as 90 percent. Follow recom-
mendations of Agricultural Experiment Stations.

Swab Treatment: Apply DALAPON (to the grass
and not to the cranberry foliage) at the rate of 2
pounds in 5 gallons of water (up to 5 gallons mixture
per acre) as a swab treatment as soon as the grassy
weeds appear above the vines. Two applications at
two-week intervals are suggested. Swab ap-
plications will suppress growth of grassy weeds, and
may result in crop reduction in the year following
application if the concentrated solution is applied
carelessly or drips onto the cranberry vines. Do not
apply within 60 days of harvest. Do not use more
than two applications per season. Follow recom-
mendations of Agricultural Experiment Stations.

CITRUS: Use DALAPON to control grasses in-
cluding bermudagrass, johnsongrass,
pangolagrass, guineagrass, paragrass and
maidencane in orange, grape fruit, tangerine, and
lime groves. Apply 2 to 4 pounds of DALAPON per
acre in 50 to 100 gallons of water as a broadcast
directed spray to the grove floor or apply at the
same rate per acre as a spot treatment using 1
pound of DALAPON in 20 gallons of water and spray
to wet the grass without runoff. Make initial ap-
plication when grasses are growing well but before
seed heads form. In Florida and Texas, make up to 3
applications per season, if needed, at 2 to 10 day

CAUTION: During harvest periods, spray only
immediately after gleaning nuts from the ground.
Do not spray directly on fallen nuts.

BANANA PLANTINGS: To control perennial
grasses such as guinea (*Panicum maximum*),
amargo (*Axonopus* sp.) and gamalote (*Paspalum*
sp.), use 10 to 15 pounds of DALAPON per acre in
enough water to obtain good coverage. Often rates of
6 to 8 pounds per acre applied in the same manner
give very satisfactory results. A first treatment
should be made when grass is growing well, but
before heading. Repeat treatments, usually spot
applications, should be made where needed in about
a month to six weeks and later on as required. Use
no more than a total of 30 pounds of DALAPON per
acre per year. Keep spray off banana fruits, foliage
or young plants. Use sufficient spray to wet grass
foliage thoroughly, but avoid run-off.

WARNING

DALAPON IN THE SOIL MAY INHIBIT SEED
GERMINATION AND PLANT GROWTH FOR 30
DAYS OR MORE, DEPENDING ON DOSAGE
APPLIED, SOIL TYPE, TEMPERATURE, AND
AMOUNT OF SOIL MOISTURE AND RAINFALL.
ACCORDINGLY, ON LAND TO BE PLANTED TO
SENSITIVE CROPS SUCH AS GRASS, SMALL
GRAINS, CORN OR BEANS, DELAY PLANTING
FOR AT LEAST 30 DAYS AFTER PLOWING
AREAS SPRAYED WITH DALAPON. DECOM-
POSITION OF DALAPON PROCEEDS MOST
RAPIDLY IN WARM, MOIST SOIL. IF SOIL
REMAINS COOL OR DRY, DECOMPOSITION
MAY BE SLOWER, AND MORE TIME WILL BE
REQUIRED AFTER PLOWING BEFORE CER-
TAIN CROPS CAN BE PLANTED SAFELY TO
AVOID THE POSSIBILITY OF RESIDUES IN
MEAT OR MILK. DO NOT GRAZE MEAT OR
DAIRY ANIMALS ON VEGETATION TREATED
WITH DALAPON.

To avoid injury to desirable plants, do not allow
spray or spray drift containing DALAPON to con-
tact foliage or roots of such plants, including lawns
and other desirable turf. Flush spraying equipment
with plenty of water immediately after use to avoid
contamination of later sprays or possible corrosion.

When using DALAPON in a combination spray with
other herbicides be sure to read the directions and

control.

APRICOTS, PEACHES, PLUMS (PRUNES): Bearing and nonbearing in western areas. Use at rate of 6 to 7 pounds of DALAPON per acre on broadcast basis. Apply as a directed spray to a 4 to 8 foot wide band on each side of tree row or apply as a spot treatment only to areas where grasses are a problem. For band or spot treatment the amount of spray should be reduced proportionate to the area actually sprayed. Spray to just wet without runoff. Apply when grasses have begun growing well in the spring but before heading. Re-treat as needed, but use no more than twice in any one growing season. Keep spray off crop foliage and fruit and do not apply within 30 days of harvest. Do not graze livestock on treated areas.

PEACHES: Bearing and non-bearing in other than western areas. For spot treating use 1 pound of DALAPON per 20 gallons of water and spray grass to wet, without run-off. As directed spray use no more than 3 1/2 pounds of DALAPON per acre per application on a broadcast basis. Keep spray off foliage and fruit and do not apply within 30 days of harvest. Apply no more than twice in any growing season. Do not graze livestock on treated areas.

APPLES AND PEARS: In orchards less than 4 years old use DALAPON as directed broadcast spray at rate of 5 pounds per treated acre; or apply as a directed spray to a 4 to 8 foot wide band on each side of tree row; or as a spot treatment only to areas where grasses are a problem. With band or spot treatment the amount of spray should be reduced in proportion to the area actually treated. In orchards at least 4 years old use 10 pounds DALAPON per treated acre as directed broadcast spray; or apply in a band as a directed spray from each side of the tree row, or as a spot treatment only to areas where grasses are a problem. With band or spot treatment the amount of spray should be reduced in proportion to the area actually treated. Apply when grasses have begun growing well in the spring, but before heading. Spray to just wet grass without runoff. Re-treat as needed but use no more than twice in any one growing season. Keep spray off crop foliage and fruit, and do not apply within 30 days of harvest. Do not graze livestock on treated areas.

GRAPES: Bearing, in California and Arizona. Use DALAPON at the rate of 10 pounds per treated acre on a broadcast basis. Apply as a directed spray to a band 30 inches wide centered on vine row. Keep spray off grape foliage and fruit. Do not apply more than twice in any growing season. Do not apply within 30 days of harvest. Keep spray out of irrigation furrows. Do not graze livestock on treated areas.

CORN-DIRECTED SPRAY: For control of seedlings of green, yellow and giant foxtail and broadleaved weeds such as pigweeds, lamb-quarters and wild mustard apply two thirds pound DALAPON plus recommended amount of 2,4-D weed killer referred to in General Instruction per acre of corn to a 14-inch band in 40 to 42 inch corn rows when corn is 8 to 20 inches tall-ground to whorl.

grass are less than 1 1/2 inches tall and corn is in the spike to 4-leaf stage. Consult your State agricultural experiment station or extension service weed specialist for local use directions. Prepare the spray by dissolving DALAPON in the required amount of water contained in a spray tank. Using a convenient container, make a thin slurry of Atrazine 80 percent wettable powder in water, thoroughly wetting the Atrazine, and add to the solution of DALAPON. Add the oil last. Provide continuous agitation in the spray tank during mixing, holding, and spraying operations to keep the spray uniformly mixed.

ASPARAGUS: To control quackgrass, apply 10 pounds of DALAPON per acre before cutting and 3 to 4 weeks later as needed. With a single treatment, use 20 pounds of DALAPON either before or after the cutting season. For bermudagrass control, apply 20 pounds of DALAPON per acre either before or after the cutting season, and a second spray of 10 pounds as needed. NOTE: During the cutting season, spray immediately after cuttings. Later sprays should be directed under the fern growth. Use enough water to provide uniform wetting of the grass. Spot spray patches of grass with 1 pound of DALAPON in 10 gallons of water.

PEAS: To control seedling grasses, use one pound of DALAPON per acre in enough water for good spray coverage. Apply at least 25 days prior to harvest when the grass seedlings are young and the peas are 2 to 6 inches tall. DALAPON can be used in a combination spray with a dinitro pre-emergence weed killer to control both weeds and grasses. Fresh pea vines or pea silage may be fed to livestock if desired, but do not feed pea vine hay.

POTATOES: To control seedling grasses, use 3 pounds of DALAPON per acre in enough water to wet the grass evenly. Apply before emergence of the potatoes when grass plants are small. This application can be a combination spray with a dinitro pre-emergence weed killer. Where quackgrass comes up after planting but before potatoes emerge, use up to 10 pounds of DALAPON per acre and wet the grass well. Do not apply DALAPON after potato plants emerge. Spring pre-planting treatment of quackgrass with 8 pounds of DALAPON per acre is effective. After 4 days land can be plowed and potatoes planted immediately if normal soil moisture is present. **Late Season Grass Control:** Use 5 pounds of DALAPON in 15 to 25 gallons of water per acre. Make application after lay-by when grass seeds have germinated but before the grass seedlings are 3 inches tall. Use a vine lifter and direct the spray on the grass up to the base of the potato plants so that it will cover the tops of the rows and the middles but will get a minimum of spray on the potato foliage. Note: Do not use DALAPON on land planted or to be planted to red skinned varieties or White Rose.

FLAX: To control pigeongrass or green, yellow and giant foxtails in flax, use 1 pound of DALAPON per acre in 5 to 10 gallons of water when flax is 1 to 6 inches tall. For best results, use when the young grass seedlings are less than 2 inches tall and growing actively. Do not expect rapid grass kill. NOTE: To avoid injury to flax, follow application directions carefully and do not exceed stated dosage. MCP or 2,4-D can be used with DALAPON where broad-leaved weed control is desired.

two-week intervals are suggested. Swab applications will suppress growth of grassy weeds, and may result in crop reduction in the year following application if the concentrated solution is applied carelessly or drips onto the cranberry vines. Do not apply within 60 days of harvest. Do not use more than two applications per season. Follow recommendations of Agricultural Experiment Stations.

CITRUS: Use DALAPON to control grasses including bermudagrass, johnsongrass, pangolagrass, guineagrass, paragrass and maidencane in orange, grape fruit, tangerine, and lime groves. Apply 2 to 4 pounds of DALAPON per acre in 50 to 100 gallons of water as a broadcast directed spray to the grove floor or apply at the same rate per acre as a spot treatment using 1 pound of DALAPON in 20 gallons of water and spray to wet the grass without runoff. Make initial application when grasses are growing well but before seed heads form. In Florida and Texas, make up to 3 applications per season, if needed, at 2 to 10 day intervals. In California and Arizona, only spot-spraying is recommended and to cover no more than one half the area over the root zone of individual trees, to minimize herbicide symptoms which occasionally occur on citrus foliage. Make up to 3 applications per season, if needed, at 4 to 8 week intervals. CAUTION: Use only the lower rates listed on very light soil. Do not use under newly transplanted citrus trees or trees less than 4 years old. Do not use in groves which are under drought stress, diseased, in decline or suffering from cold damage. Do not spray bare soil under citrus trees. Keep spray off citrus foliage and fruit. Do not graze livestock on treated areas.

GROVE DITCHES AND NON-GROVE AREAS: Dissolve approximately 5 pounds of DALAPON per 100 gallons of water and apply at rates to give 5 to 10 pounds of DALAPON per acre actually treated. Spray to wet the foliage uniformly. Make two applications one to two weeks apart to control cattails and grasses such as phragmites, paragrass and quinegrass. DALAPON can be used with 2,4-D or silvex weed killers for over-all control of grasses, cattails, weeds and woody plants. See these product labels for detailed use directions. Do not graze livestock on treated area.

COFFEE: To control crabgrass, bermudagrass, kikuyugrass, para (California) grass and other grasses in established coffee plantations in Hawaii, dissolve one pound DALAPON in 10 gallons water. Apply as directed spray to just wet the grass without run-off out not to exceed 100 gallons per acre. Keep the spray off the coffee foliage. Make initial application to grasses which are growing well and prior to seed head formation. Respray 4 to 6 weeks later or when regrowth warrants, but do not apply more than two sprays in any one crop year and do not apply within 8 months of harvest.

GRASS CONTROL IN MACADAMIA: To control crabgrass, bermudagrass, kikuyagrass, para (California) grass, dallisgrass in macadamia orchards in Hawaii, use DALAPON in concentrations of 1/4 to 1 1/8 pounds per 10 gallons of water. Spray to just wet the grass without run-off, but not to exceed 100 gallons per acre. Make first application before harvest and respray at intervals as regrowth warrants. Do not exceed 24 pounds of DALAPON per acre per year.

FOR AT LEAST 30 DAYS AFTER PLOWING AREAS SPRAYED WITH DALAPON. DECOMPOSITION OF DALAPON PROCEEDS MOST RAPIDLY IN WARM, MOIST SOIL. IF SOIL REMAINS COOL OR DRY, DECOMPOSITION MAY BE SLOWER, AND MORE TIME WILL BE REQUIRED AFTER PLOWING BEFORE CERTAIN CROPS CAN BE PLANTED SAFELY TO AVOID THE POSSIBILITY OF RESIDUES IN MEAT OR MILK. DO NOT GRAZE MEAT OR DAIRY ANIMALS ON VEGETATION TREATED WITH DALAPON.

To avoid injury to desirable plants, do not allow spray or spray drift containing DALAPON to contact foliage or roots of such plants, including lawns and other desirable turf. Flush spraying equipment with plenty of water immediately after use to avoid contamination of later sprays or possible corrosion.

When using DALAPON in a combination spray with other herbicides be sure to read the directions and precautions on the herbicide container.

Local conditions affect use of herbicides. State agricultural experimental station or extension service weed specialists in many states issue recommendations to fit local conditions.

CONTAINER DISPOSAL

Do not reuse empty container. Destroy it by burying with wastes or burning. Stay away from smoke or fumes.

WARRANTY AND LIMITATION OF DAMAGES

Chemagro warrants that this material conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use and Conditions of Sale; subject to the risks referred to therein. CHEMAGRO MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY, INCLUDING ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY, and no agent of Chemagro is authorized to do so except in writing with a specified reference to this warranty. Any damages arising from a breach of this warranty shall be limited to direct damages, and shall not include consequential commercial damages such as loss of profits or values, etc.

To Avoid Caking, Keep Inner Polyethylene Bag Tightly Closed.

CAUTION

CAUSES EYE IRRITATION-MAY CAUSE SKIN IRRITATION-HARMFUL IF SWALLOWED. AVOID CONTACT WITH EYES, SKIN OR CLOTHING. KEEP OUT OF REACH OF CHILDREN. In case of contact, flush eyes with plenty of water for at least 15 minutes and get medical attention. For skin, remove contaminated clothing and wash skin with plenty of water. Wash clothing before reuse. If poisoning occurs, get prompt medical attention.

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