

# Liquid Growth Retardant for Preventing Growth of Tobacco Suckers.



ACTIVE INGREDIENTS	
Percent by Weight	
Maximum salt of 3-(2,4,6-trichlorophenoxy)-3,4-dihydroquinoline	27.8%
INERT INGREDIENTS 72.2%	
<b>TOTAL</b>	<b>100.0%</b>

CAUTION: This product is a liquid growth retardant. It is not intended for use on food crops. Do not use on plants intended for human or animal consumption. Do not use on plants intended for use as food or feed. Do not use on plants intended for use as seed or for propagation. Do not use on plants intended for use as ornamentals. Do not use on plants intended for use as lawns or lawns.

**WARRANTY - CONDITION OF SALE:** DIRECTIONS FOR USE of this product are based on field use and tests believed reliable and should be followed carefully. It is however impossible to eliminate all risks associated with use of this product. Because such factors as weather conditions, foreign material and manner of use for application are all beyond the control of The Ansul Company or the Seller of this product, such things as crop injury, ineffectiveness or other unintended consequences may result. **ALL SUCH RISKS ARE ASSUMED BY THE BUYER.**

Ansul warrants that this product conforms to the chemical description on the label and is reasonable, fit for the purposes referred to in the directions for use as modified by the above. Ansul makes no other warranties, express or implied, including FITNESS or MERCHANTABILITY, in no case shall Ansul or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product. The foregoing is a condition of sale by The Ansul Company and is accepted as such by the Buyer.

**CONTAINER DISPOSAL:** Chop, bury, or top and bottom 2 by 18" each, soil surface at safe disposal site. Never reuse for food or water.

**DIRECTIONS FOR USE:** To Prevent Sucker Development on Field-Cured and Burley Tobacco: **MALEIC HYDRAZIDE 2P** is a liquid growth retardant, a new method of controlling sucker growth by keeping suckers from growing rather than by killing them. Since **MALEIC HYDRAZIDE 2P** is a liquid and moves inside the tobacco plant, spraying the whole plant is not necessary. Best results are obtained when the whole plant is sprayed. The whole plant should be sprayed with **MALEIC HYDRAZIDE 2P** at the following rate: 3 gallons per acre. The whole plant should be sprayed with **MALEIC HYDRAZIDE 2P** at the following rate: 3 gallons per acre. The whole plant should be sprayed with **MALEIC HYDRAZIDE 2P** at the following rate: 3 gallons per acre.

**MALEIC HYDRAZIDE 2P** is a liquid growth retardant. It is not intended for use on food crops. Do not use on plants intended for human or animal consumption. Do not use on plants intended for use as food or feed. Do not use on plants intended for use as ornamentals. Do not use on plants intended for use as lawns or lawns.

- How to Spray:** 2P may be applied or hand drawn in a compressed air sprayer.
- Tractor or motor sprayers. Any may be used. Can be used in more rows at 1/3 to 1/2 of normal rate.
  - Compressed air sprayer. Spray one side while walking up and down to moisten up plant. Apply to each plant.

**Amount to Use:** **HYDRAZIDE 2P** Example: Use 3 **HYDRAZIDE 2P** gallons per acre, or 1 gallon **2P** for 8,000 plants per acre. More than 20 gallons from 20 to 50 gallons can be used.

- NOTES - TOBACCO**
- To control tobacco sucker growth, spray tobacco plants with **MALEIC HYDRAZIDE 2P** at the proper time. Do not spray tobacco plants until they have begun to flower. Too late spraying will result in some sucker growth. The stage when plants have begun to flower is the best time to spray.
  - Rains occurring after spraying may reduce the effectiveness of the spray.
  - At 32° F., the product will form solids but must be kept above 40° F. The label should be kept above 40° F. at all times.

43055

**ACTIVE INGREDIENTS**

Percent by Weight  
Potassium salt of  
5-hydroxy-3-(2H)  
pyridazinone\* 27.3%

**INERT INGREDIENTS:** 72.2%

**TOTAL** 100.0%

Hereafter called Potassium salt of  
maleic hydrazide. Equivalent to 20%  
maleic hydrazide. One gallon contains  
2 pounds as maleic hydrazide

**CAUTION:**  
Keep out of the  
reach of children

Read entire label  
before using  
this product



including FITNESS or MERCHANT  
ABILITY. In no case shall Ansel or the  
Seller be liable for consequential, special  
or indirect damages resulting from the  
use or handling of this product. The foregoing is a condition of sale by The Ansel  
Company and is accepted and agreed by the  
Buyer.

**CONTAINER DISPOSAL:** Clean, empty, top  
and bottom 2" x 18" below soil  
surface at safe disposal site. Never reuse  
for food or water.

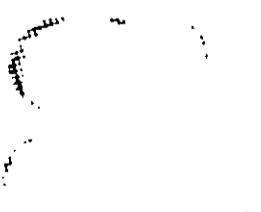
**DIRECTIONS FOR USE**  
To Prevent Sucker Development on Flue-  
Cured and Burley Tobacco: MALEIC  
HYDRAZIDE 2P, a plant inhibitor, offers  
a new method of controlling sucker  
growth by keeping suckers from growing  
rather than by killing them. Since  
MALEIC HYDRAZIDE 2P is absorbed  
and moves inside the tobacco plant,  
spraying the whole plant is not necessary.  
Best results are obtained by spraying the  
upper 1/3 to 1/2 of the plant. It is very  
important to apply equal amounts of  
MALEIC HYDRAZIDE 2P to each plant  
at time of topping.

**When to Spray:** Satisfactory sucker control  
depends on correct timing of the  
spray.

- a. If all plants flower at about the same  
time, proceed as follows: As soon as  
the plants are in Full Flower, top,  
pull all suckers from early maturing  
plants and spray MALEIC HYDRA-  
ZIDE 2P uniformly onto the entire  
field within 24 hours after topping  
(see notes 1 & 9).
- b. If there is a wide range in the time  
of flowering, the following procedure  
should be used:
  - 1. Go through the field and top the  
few early flowering plants.
  - 2. Wait until the remaining plants are  
in Full Flower, top them, remove  
all suckers from the entire field.

Example: Use 9  
HYDRAZIDE 2P  
acre, or 1 gallon  
2P for 8,000 plants  
less than 20 gallon  
(from 20 to 50 ga  
acre can be used  
**NOTES - TOBACCO**

- 1. To control tobacco  
MALEIC HYDRA-  
proper time. To  
prevent normal  
leaves. Too late  
some sucker growth  
is the stage when  
plants have begun  
flowers.
- 2. Rains occurring  
spraying may reduce  
effectiveness.
- 3. At 32° F. and  
will form solids,  
but must be washed  
above. The larger  
more time is needed  
redissolve the product.
- 4. Follow dosage re-  
fully, spray field  
not use less than  
amount of water  
tobacco.
- 5. Do not use on tobacco  
for seed production.
- 6. Do not spray tobacco  
of hot, dry days  
severely wilted. Do  
during early morning  
cloudy days, avoid  
noon or night application  
nozzle delivering  
Do not use a broadcast  
nozzle.
- 7. Closely hand-suck  
HYDRAZIDE 2P  
not ripen as rapidly  
tobacco. Also, un-  
MALEIC HYDRA-  
maturely. This is  
does not mean that



CONTAINER DISPOSAL. Chop holes in top and bottom. Bury 12" below soil surface at safe disposal site. Never reuse for food or water.

To prevent sucker development on Cured and Burley Tobacco: MALEIC HYDRAZIDE 2P, a plant inhibitor, offers a new method of controlling sucker growth by keeping suckers from growing rather than by killing them. Since MALEIC HYDRAZIDE 2P is absorbed and moves inside the tobacco plant, spraying the whole plant is not necessary. Best results are obtained by spraying the upper 1/3 to 1/2 of the plant.

#### WARRANTY -- CONDITION OF SALE:

DIRECTIONS FOR USE of this product are based on field use and tests believed reliable and should be followed carefully. It is however impossible to eliminate all risks associated with use of this product. Because such factors as weather conditions, foreign material and manner of use for application are all beyond the control of The Ansul Company or the Seller of this product, such things as crop injury, ineffectiveness or other unintended consequences may result. ALL SUCH RISKS ARE ASSUMED BY THE BUYER.

Ansul warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the directions for use as modified by the above. Ansul makes no other warranties, express or implied, including FITNESS or MERCHANT ABILITY. In no case shall Ansul or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product. The foregoing is a condition of sale by The Ansul Company and is accepted as such by the Buyer.

CONTAINER DISPOSAL. Chop holes in top and bottom. Bury 12" below soil surface at safe disposal site. Never reuse for food or water.

#### DIRECTIONS FOR USE:

To Prevent Sucker Development on Cured and Burley Tobacco: MALEIC HYDRAZIDE 2P, a plant inhibitor, offers a new method of controlling sucker growth by keeping suckers from growing rather than by killing them. Since MALEIC HYDRAZIDE 2P is absorbed and moves inside the tobacco plant, spraying the whole plant is not necessary. Best results are obtained by spraying the upper 1/3 to 1/2 of the plant.

Joint apply MALEIC HYDRAZIDE 2P within 21 hours after cutting (see note 1). The maximum recommended volume of spray is 6 inches long at 1 1/2 of spray per

How to Spray: MALEIC HYDRAZIDE 2P may be applied with either tractor or hand-drawn insecticide sprayer, or with a compressed air shoulder sprayer.

- a. Tractor or mule drawn insecticide sprayers. Any number of nozzles may be used. Can be applied in the same manner as insecticide, spraying one or more rows at a time, wetting upper 1/3 to 1/2 of plant.
- b. Compressed air shoulder sprayer with single nozzle spraying a wide cone. Spray one side of each tobacco row while walking at a constant rate. Use up and down motion of spray nozzle to moisten upper 6 to 8 leaves of each plant. Apply equal amounts of spray to each plant.

Amount to Use: 1 pint MALEIC HYDRAZIDE 2P per 1,000 plants

Example: Use 3 quarts MALEIC HYDRAZIDE 2P for 6,000 plants per acre, or 1 gallon MALEIC HYDRAZIDE 2P for 8,000 plants per acre. Use not less than 20 gallons of water per acre (from 20 to 50 gallons of water per acre can be used - see note 9)

#### NOTES -- TOBACCO:

1. To control tobacco suckers apply MALEIC HYDRAZIDE 2P at the proper time. Too early spraying may prevent normal development of top leaves. Too late spraying will allow some sucker growth. FULL FLOWER is the stage when 90% of your plants have begun to shed their first flowers.
2. Rains occurring within 12 hours after spraying may reduce effectiveness.
3. At 32° F. and below, the formulation will form solids. It readily redissolves, but must be warmed to 40° F. or above. The larger the container the more time is needed to completely redissolve the solids.

1. To control tobacco suckers apply MALEIC HYDRAZIDE 2P at the proper time. Too early spraying may prevent normal development of top leaves. Too late spraying will allow some sucker growth. FULL FLOWER is the stage when 90% of your plants have begun to shed their first flowers.

note. Therefore, do not mix MALEIC HYDRAZIDE 2P with tobacco by using the water portion of the formula for 20 to 30 days before the other MALEIC HYDRAZIDE 2P is applied. Indicators of ripeness are:

- a. Fading of color in main buds
- b. Change in apparent leaf texture
8. If tobacco plants are to be grown under drought conditions, application of MALEIC HYDRAZIDE 2P will be slow and results may not be as good as plants grown under more favorable moisture conditions.
9. Too little MALEIC HYDRAZIDE 2P will result in less than desired control. Too much is wasteful and may cause burning of leaves and may reduce quality of tips.
10. It is not corrosive to spray equipment. It does not offer drift problems on nearby crops.
11. Rinse spray equipment with water after application. Do not contaminate water supplies by cleaning of equipment or disposal of wastes.

MALEIC HYDRAZIDE 2P is manufactured by The Ansul Company, Manitowish, Wisconsin 54143

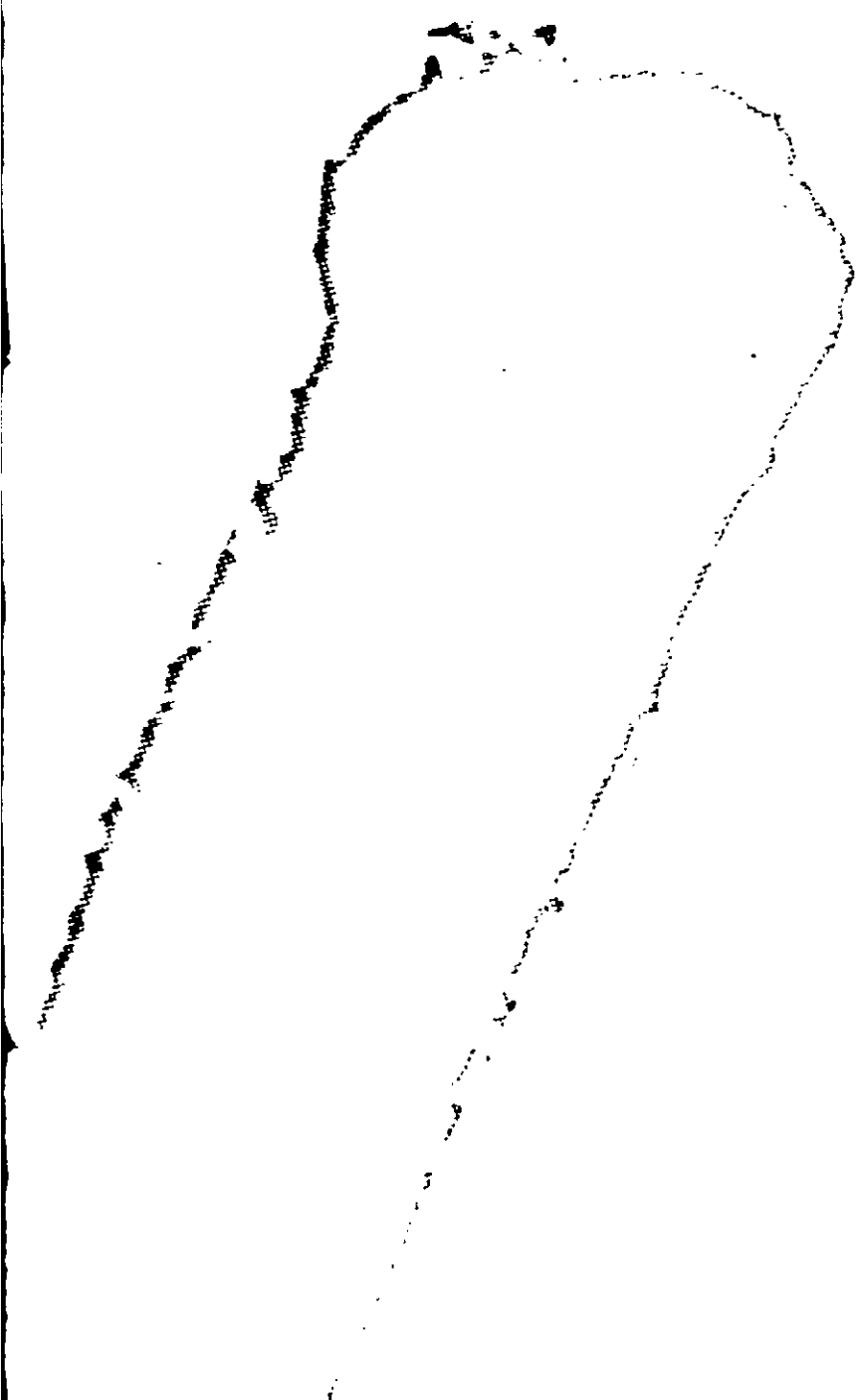
X ANSUL are registered trademarks of The Ansul Company.

Form No.

Net Contents 5 Gallons

EPA Reg. No. 6308-57

kers.



no other warranties, express or implied, including FITNESS or MERCHANTABILITY. In no case shall Ansul or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product. The foregoing is a condition of sale by The Ansul Company and is accepted as such by the Buyer.

**CONTAINER DISPOSAL.** Check holes in top and bottom. Bury 18" below soil surface at safe disposal site. Never reuse for food or water.

#### DIRECTIONS FOR USE

**To Prevent Sucker Development on Flue-Cured and Burley Tobacco:** MALEIC HYDRAZIDE 2P, a plant inhibitor, offers a new method of controlling sucker growth by keeping suckers from growing rather than by killing them. Since MALEIC HYDRAZIDE 2P is absorbed and moves inside the tobacco plant, spraying the whole plant is not necessary. Best results are obtained by spraying the upper 1/3 to 1/2 of the plant. It is very important to apply equal amounts of MALEIC HYDRAZIDE 2P to each plant at time of topping.

**When to Spray:** Satisfactory sucker control depends on correct timing of the spray.

- a. If all plants flower at about the same time, proceed as follows: As soon as the plants are in Full Flower, top, pull all suckers from early maturing plants and spray MALEIC HYDRAZIDE 2P uniformly onto the entire field within 24 hours after topping (see notes 1-9).
- b. If there is a wide range in the time of flowering, the following procedure should be used:
  1. Go through the field and top the few early flowering plants.
  2. Wait until the remaining plants are in Full Flower, top them, remove all suckers from the entire field.

**Example:** Use 3 quarts MALEIC HYDRAZIDE 2P for 6,000 plants per acre, or 1 gallon MALEIC HYDRAZIDE 2P for 8,000 plants per acre. Use not less than 20 gallons of water per acre (from 20 to 50 gallons of water per acre can be used - see note 9).

#### NOTES - TOBACCO:

1. To control tobacco suckers apply MALEIC HYDRAZIDE 2P at the proper time. Too early spraying may prevent normal development of top leaves. Too late spraying will allow some sucker growth. FULL FLOWER is the stage when 90% of your plants have begun to shed their first flowers.
2. Rains occurring within 12 hours after spraying may reduce effectiveness.
3. At 32° F. and below, the formulation will form solids. It readily redissolves, but must be warmed to 40° F. or above. The larger the container the more time is needed to completely redissolve the precipitate.
4. Follow dosage recommendations carefully, spray field uniformly and do not use less than the minimum amount of water recommended on tobacco.
5. Do not use on tobacco plants grown for seed production.
6. Do not spray tobacco in the middle of hot, dry days when leaves are severely wilted. For best results spray during early morning, all day on cloudy days, avoiding the late afternoon or night applications. (Use a nozzle delivering a fine mist spray. Do not use a broad jet type of spray).
7. Closely hand-suckered or MALEIC HYDRAZIDE 2P treated tobacco will not ripen as rapidly as poorly suckered tobacco. Also, under some conditions MALEIC HYDRAZIDE 2P treated tops have a tendency to turn yellow prematurely. This is not harmful and does not mean that your tobacco is

MALEIC HYDRAZIDE 2P is manufactured by The Ansul Company, Marinette, Wisconsin 54143.

**X** **ANSUL** are registered trademarks of The Ansul Company

Form No.

Net Contents 5 Gallons

EPA Reg. No. 6308-57