



ACCEPTED

AUG 24 1999

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 19713-1

Sucker - Stuff[®]

Liquid Growth Retardant

ACTIVE INGREDIENT:

Potassium salt of 6-hydroxy-3-(2H)-pyridazinone*	30.2%
OTHER INGREDIENTS:	69.8%
TOTAL:	100.0%

*Hereafter called Potassium salt of Maleic hydrazide.
Product contains 2.25 pounds of Maleic hydrazide equivalent per gallon.

KEEP OUT OF REACH OF CHILDREN
CAUTION

See **FIRST AID** Below
SHAKE WELL BEFORE USING

EPA REG. NO. 19713-1
EPA EST. NO. 19713-TN-1 Net Contents: _____

ENVIRONMENTAL HAZARDS

For terrestrial uses, do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by disposal of equipment washwaters.

SURFACE WATER ADVISORY: Under some conditions, Maleic hydrazide may have a significant potential for runoff into surface water (primarily via dissolution in runoff water), for several days post-application. Conditions favoring runoff include poorly drained soils or wet soils with readily visible slopes, frequently flooded areas, areas where an intense or sustained rainfall is forecast to occur within 48 hours, areas overlying extremely shallow ground water and areas overlying tiles drainage systems that flow to surface water.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Do not apply this product through any type of irrigation system. 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. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

FIRST AID

IF IN EYES: Flush eyes with plenty of water. Call a physician if irritation persists.
IF SWALLOWED: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting.
IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.
IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

PRECAUTIONARY STATEMENTS
Hazards to Humans and Domestic Animals

CAUTION: Causes moderate eye irritation. Harmful if swallowed, absorbed through skin or inhaled. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist.
PERSONAL PROTECTIVE EQUIPMENT (PPE)
Applicators and other handlers must wear: Long-sleeved shirt and long pants, shoes plus socks and waterproof gloves.
Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.
When handlers use closed systems or enclosed cabs 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

Users should: 1) Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. 2) Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. 3) 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.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, greenhouses and handlers of agricultural 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), restricted entry interval (REI) and notification to workers. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard (WPS).
Do not enter or allow worker entry into treated areas during the restricted entry interval of 12 hours.
Personal Protective Equipment 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, waterproof gloves and shoes plus socks.

TO PREVENT SUCKER DEVELOPMENT ON FLUE-CURED, BURLEY, DARK-FIRE, MD AND CIGAR (PA AND WI) TOBACCO

SUCKER-STUFF, a plant growth inhibitor, offers a new method of controlling sucker growth by keeping suckers from growing rather than by killing them. Since this product 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 this product to each plant at the correct time to obtain satisfactory control.

WHEN TO SPRAY FOR FLUE-CURED, BURLEY, DARK-FIRE AND MD TOBACCO

1. 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 this product uniformly onto the entire field within 24 hours after topping (See Notes 1-14).

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P.O. BOX 13327, MEMPHIS, TN 38113-0327
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2. If there is a wide range in the time of flowering, the following procedure should be used:
 - a. Go through the field and top the few early-flowering plants.
 - b. Wait until the remaining plants are in full flower, top them, remove all suckers from the entire field, and apply this product within 24 hours after topping (See Notes 1-14).
- Tip leaves to be harvested should be at least 6 inches long at time of spraying.

WHEN TO SPRAY FOR PA CIGAR TOBACCO

1. If your field flowers uniformly.
 - a. Top when about 1/4 to 1/2 of your plants show one or more open flowers on each head.
 - b. Wait three days after topping.
 - c. Spray this product. For best results, this product should be sprayed on dry or nearly dry leaves. Avoid spraying on leaves covered with dew.
2. If your field doesn't flower uniformly.
 - a. When flowering in your field is particularly uneven, you should top when about 50 to 60% of the plants show one or more open flowers per head.
 - b. Wait three days after topping and remove by hand any suckers more than 2 inches long.
 - c. Spray this product over your entire field.

WHEN TO SPRAY FOR WI CIGAR TOBACCO

1. Top the field when most of the plants in your field are in full flower.
2. Remove by hand any suckers larger than one or two inches.
3. Spray within 24 hours after topping and removal of suckers.

HOW TO SPRAY

This product may be applied with either tractor drawn insecticide sprayer or with a compressed air shoulder sprayer.

1. Tractor-drawn insecticide sprayers: Any number of nozzles may be used (See Note 6). Can be applied in the same manner as insecticide spraying one or more rows at a time, wetting upper 1/2 or 1/2 of plant.
2. 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 OF SPRAY

Apply the recommended amounts of this product in 30 to 50 gallons of water per acre. Do not use less than 30 gallons of water per acre.

FOR FLUE-CURED, BURLEY, CIGAR (PA and WI) AND MD TOBACCO

Apply 1 pint of this product per 1,000 plants.
Example: Use 1 gallon of this product for 8,000 plants per acre.

FOR DARK TOBACCO

Apply 2 pints of this product per 1,000 plants.
Example: Use 2 gallons of this product for 8,000 plants per acre.

NOTES:

1. To control tobacco suckers apply this product 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 6 hours after spraying may reduce effectiveness.
3. At 40°F and below, the formulation will form solids. It readily redissolves, but must be warmed to 50°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 Tobacco treated with this product will not ripen as rapidly as poorly suckered Tobacco. Also, under some conditions tips treated with this product have a tendency to turn yellow prematurely. This is not harmful and does not mean that your Tobacco is ripe. Therefore, do not harvest Tobacco treated with this product by using time and color of the leaves as your only guide to ripeness. Use other characteristics indicative of ripeness such as (a) Fading of color from midrib, and (b) Change in apparent leaf texture.
8. If Tobacco plants have been grown under drought conditions absorption of this product will be slow and results may not be as good as plants grown under more favorable moisture conditions.
9. Too little of this product will result in less than desired control. Too much is wasteful and may cause burning of leaves and may reduce quality of tips.
10. This product is not corrosive to spray equipment.
11. Rinse spray equipment with water after application. Do not contaminate water supplies by cleaning of equipment or disposal of wastes.
12. Use only one application of this product to Tobacco per season.
13. Allow at least 7 days after application before harvest of Tobacco.
14. Should washoff occur within 6 hours of application to Tobacco, a single repeat application may be made.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal.

PESTICIDE STORAGE: Storage should be under lock and key in a ventilated room and secure from access by unauthorized persons and children. Storage should be in a cool, dry area away from any heat or ignition source. Do not stack containers over 2 pallets high. Move containers by handles or case. Do not move containers from one area to another unless they are securely sealed. Keep containers tightly sealed when not in use. Keep away from any puncture source. Avoid storage near water supplies, food, feed and fertilizer to avoid contamination. Store in original containers only. If the contents are leaking or material is spilled follow these steps:

1. Contain spill, absorb with a material such as sawdust, clay granules or dirt.
2. Collect and place in suitable containers for disposal.
3. Wash area with soap and water to remove remaining pesticide.
4. Follow washing with clean water rinse.
5. Place a leaking container in a plastic tub and transfer contents as soon as possible to an empty original container.
6. Do not allow runoff to enter sewer or contaminate water supplies.
7. Dispose of waste as indicated below:

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. 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 at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning or dispose of in a sanitary landfill or incineration, or if allowed by State and Local authorities, by burning. If burned, stay out of smoke.

WARRANTY—CONDITION OF SALE

OUR RECOMMENDATIONS FOR USE of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the Seller. Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith.

In no case shall the Manufacturer or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with directions given herewith. The foregoing is a condition of sale by the Seller and is accepted as such by the Buyer.

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Retard[®]

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Net Contents: _____

FIRST AID

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Personal Protective Equipment 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, waterproof gloves and shoes plus socks.

FOR INHIBITION OF GROWTH OF TREES, SHRUBS AND IVY

RETARD will inhibit growth of various Trees, Shrubs and Ivy. The plants should first be pruned into the desirable shape. After regrowth of 2 to 4 inches occurs, spray on this product. This product can also be applied in Spring as soon as new leaves have expanded. The following tree species can be treated: Alder, Elm, Oak, Poplar, Sweet gum, Sycamore, Tamarack and Willow.

The following shrubs can be treated: Algerian ivy, Cissampelos, Forsythia, Hahns Ivy, Honeysuckle, Ice plant, Myrtle, Pteris, Privet, Pyracantha, Viburnum and Xylosoma.

Manufactured By:

Drexel Chemical Company

P.O. BOX 13327, MEMPHIS, TN 38115-0327

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HOW TO APPLY

The following spray solution should be sprayed in the upper half of the tree if top terminal growth is to be inhibited. If the side of a tree is to be inhibited, spray the half of the tree on the pruned side. For Shrubs and Ivy, spray all surfaces of the leaves and bark. Add 1 1/2 gallons of this product to 100 gallons of water. Apply this solution to Shrubs at a rate of 100 gallons per acre or to Trees at a rate of 200 gallons per acre. Wet all surfaces of leaves and bark.

Compressed Air Shoulder Sprayer—Add 4 tablespoons of this product to 1 gallon of water and apply this solution to Shrubs at a rate of 100 gallons per acre or to Trees at a rate of 200 gallons per acre. Hose-on attachments can be used to spray Trees and Shrubs. Wet all surfaces of leaves and bark. Consult instructions on applicator for delivering the equivalent of 1 1/2 gallons of this product in 100 gallons of water (equals 4 tablespoons of this product in 1 gallon of water).

10X Concentrate Spray—Concentrate spray equipment can be used replacing 90% of the water normally used in dilute sprays. Consult us for specific instructions if you plan to use a concentrate spray.

When to Spray Trees and Shrubs—Best results are obtained when the spray is applied to vigorous new growth. For example:

1. In Spring just as the new leaves have expanded and new growth has started.
2. In Summer after pruning and new regrowth is 2 to 4 inches in length.

HOW THIS PRODUCT INHIBITS GRASS GROWTH

This product is absorbed into the green grass blades and translocated by the plant fluids to the active growth areas of the plant where cell division is retarded. This product prevents seed head formation and slows down leaf growth. If an area is not mowed after this product is applied, the turf will slowly grow to 6 or 12 inches in height by the end of the growing season as the effect of this product gradually "wears off".

If this product is not applied before the seed head is formed, the seed head will expand in spite of the presence of this product. If this occurs, at least one week should then be allowed for this product to circulate throughout the plant. The area should then be mowed to no less than 4 inches in height. Inhibition of subsequent growth will then be observed.

If a neatly clipped appearance is required the application of this product should be supplemented by mowing.

HOW TO APPLY

Apply this product to green grass since brown grass will not absorb the spray. Use of this product is limited to one application per year made either in the Fall or the Spring followed by correct maintenance procedures to produce required turf growth control.

Spring Application (about April 10 to June 1)—Use 1 1/2 gallons of this product in 50 gallons of water per acre to reduce or eliminate mowing. The two week period in the Spring when the grass has grown 2 to 4 inches is ideal for applying this product.

This is the period when Dandelion and Forsythia are in full bloom. The Grass is in a vigorous growing condition and will absorb the chemical at the maximum rate. It will prevent seed head formation and inhibit growth of foliage. If spraying is delayed beyond this period, a mowing may be required to trim the area to improve appearance. Allow one week for translocation of the chemical before this mowing. Do not spray newly mowed areas covered with debris - this will interfere with coverage and absorption, causing poor results.

Fall Application (about October 1 to November 15)—Use 1 1/2 gallons of this product in 50 gallons of water per acre to reduce growth next season. The Fall treatment is applied to green grass before it becomes dormant. Since growth is inhibited the following Spring, the area will "green up" about two weeks later than untreated grass. Apply this product as close to the time the grass becomes dormant as possible but when it is still green. Do not spray when there is a cover of fallen leaves as this will interfere with coverage and absorption, causing poor results. This product will control Wild onion, Garlic and Biennial type weeds such as Dandelion and Plantain when applied in the Fall. Do not apply during the Summer (June 1 to September 25) since most permanent grasses become partially dormant in Summer. (The major reason for Summer mowing is the presence of Annual grasses and weeds which will have to be controlled with herbicides or mowing since they are not present when this product is applied to the Perennial grasses.)

CONTROLLING ANNUAL BLUEGRASS

To reduce *Poa annua* (Annual bluegrass) on golf course fairways, first mow area twice in normal sequence usually 5 to 8 days apart. When third mowing is needed, before the first *Poa annua* seed heads appear, spray 1 quart of this product in 30 to 40 gallons of water per acre. (If over 40 gallons of water is used per acre, the effectiveness may be reduced.) The effect of treatment should be evident in 8 to 10 days.

This "light" treatment of this product eliminates or greatly reduces re-seeding of *Poa annua* with little retarding of Grass growth.

RYEGRASS IN BERMUDA GRASS

Excessive growth of Bermuda grass on golf greens is often a problem in the Fall after verticutting, fertilization, overseeding and top dressing.

Apply this product in late September or early October to inhibit the growth of Bermudagrass and enable Rye or other Grasses to produce a good stand. Use 1/2 gallon of this product in 50 gallons of water per acre. This product should be applied with a calibrated boom. The Bermudagrass must be in good condition. Overseed no sooner than 48 hours after spraying.

TO INHIBIT GRASS ALONG EDGES OF HOME LAWNS

(See Note #4.)

Apply the equivalent of 1/2 gallon of this product in 100 gallons of water per acre in Spring (about April 10 to June 1) to a 6 inch band along sidewalks and edges of Shrubs and Trees. For a compressed air shoulder sprayer add 4 tablespoons of this product in 1 gallon of water and spray 6 inch band 800 feet long. Hose-on attachments can be used for edging of lawns. Consult instruction on applicator for delivering the dosage recommended by edging.

TO CONTROL WILD ONIONS AND WILD GARLIC IN LAWNS AND GRASS AREAS ALONG HIGHWAYS (Not Pasture or Crop Land)

Apply 1 to 2 gallons of this product in 20 to 100 gallons of water per acre in Spring or Fall when about 90 to 95% of the bulbs have started regrowth. Use on lawns only when grass is brown and dormant (See Note #8.)

EQUIPMENT TO APPLY RETARD

It is essential that this product be applied uniformly with the proper equipment.

RECOMMENDED EQUIPMENT

1. Trucks in all cases should be equipped with a special speedometer or tachometer reading from 0 to 15 miles per hour. Truck speedometers are generally inaccurate at this low speed. A centrifugal pump with a capacity of 100 gallons per minute and 50 pounds nozzle pressure plus off-center nozzles are recommended for applying this product. A series of nozzles activated by valves controlled within the cab permits application at 10 to 15 miles per hour covering all types of terrain found along highways. The off-center nozzle will cover up to 30 feet from the road on calm days.
2. Booms:
 - a. The Burg-Bean boom gives excellent coverage when properly calibrated and operated. Smaller amounts of water (30 to 50 gallons per acre) may be used when applying this product with booms.
 - b. Small booms mounted on tractors or jeeps are satisfactory when properly nozzled, calibrated and operated. Booms are advised only when there are few or no obstructions.
3. Air Carry Methods (Modified Air Blast Sprayer). This is the newest method for applying this product. Large, low-pressure droplets ride the air stream and deposit this product on the difficult to mow areas. It is the only equipment that will economically and satisfactorily apply this product over wide areas (up to 90 feet). It will easily cover all types of terrain on shoulders and medians.

USE OF 2,4-D: 2,4-D may be used with this product when control of Broadleaf weeds is desired in Turf. A low volatile ester or amine salt formulation is compatible with this product. In some areas weeds may emerge after this product is applied. A second application of 2,4-D would be necessary to control these weeds. Use 2,4-D only on grasses recommended by the manufacturer's label. Follow manufacturer's label when handling or spraying 2,4-D to prevent drift.

EFFECT OF RAIN ON TREATMENT

This product should be applied during a period when rain is not expected for 12 hours after treatment. Since this product is water soluble a rain will wash the chemical off the leaf blade before absorption occurs. Once this product is absorbed rain has no effect on performance.

WHERE SHOULD RETARD BE USED

This product should be used on good Turf, three or more years old, which needs frequent mowing and areas difficult to mow. This product will improve the safety of mowing by reducing the need for frequent mowing of hazardous locations and eliminating mowing of cuts and fills where a seasonal growth up to 6 to 11 inches can be tolerated.

CONDITIONS AFFECTING ABSORPTION OF RETARD BY GRASS

It has been found that a greater amount of this product will enter the leaf in the shortest time and give the best results when the plants are growing rapidly in moist soil. This product is not absorbed when (1) leaves are wilted and (2) during periods of extended drought when the soil is dry.

NOTES:

1. At 40°F and below the formulation will form solids; it readily redissolves, but must be warmed to 50°F or above. The larger the container the more time is needed to completely redissolve the precipitate.
2. Do not pasture livestock in, or cut hay from treated areas.
3. This product can be used along highways, airports, military installations, golf course fairways, roughs and similar areas. Do not feed treated foliage to livestock or graze treated areas.
4. At recommended application rates this product does not normally affect the color of grass. Under conditions of optimum absorption,

color modification for a period of several weeks may be encountered. At times treated grass may be a greener color than untreated Grass. It may also remain greener for a longer period under drought conditions. No adverse effects on color have been observed from Fall application. Some delay in Spring "green up" is normal.

- 5. Do not spray on trees when wind velocity exceeds 15 miles per hour.
- 6. This product is not corrosive to spray equipment.
- 7. Rinse spray equipment with water after applications. Do not contaminate water by cleaning of equipment or disposal of wastes.
- 8. For control of Wild onions and Garlic do not apply to young seedlings less than one season old or Winter pastures consisting of small grains such as Rye.

WARRANTY—CONDITION OF SALE

OUR RECOMMENDATIONS FOR USE of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the Seller. Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith.

In no case shall the Manufacturer or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with directions given herewith. The foregoing is a condition of sale by the Seller and is accepted as such by the Buyer.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal.

PESTICIDE STORAGE: Storage should be under lock and key in a ventilated room and secure from access by unauthorized persons and children. Storage should be in a cool, dry area away from any heat or ignition source. Do not stack containers over 2 pallets high. Move containers by handles or cases. Do not move containers from one area to another unless they are securely sealed. Keep containers tightly sealed when not in use. Keep away from any puncture source. Avoid storage near water supplies, food, feed and fertilizer to avoid contamination. Store in original containers only. If the contents are leaking or material is spilled follow these steps:

- 1. Contain spill, absorb with a material such as sawdust, clay granules or dirt.
- 2. Collect and place in suitable containers for disposal.
- 3. Wash area with soap and water to remove remaining pesticide.
- 4. Follow washing with clean water rinse.
- 5. Place a leaking container in a plastic tub and transfer contents as soon as possible to an empty original container.
- 6. Do not allow runoff to enter sewer or contaminate water supplies.
- 7. Dispose of waste.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or by incineration or, if allowed by State and Local authorities, by burning. If burned, stay out of smoke.

