

3125-193

10-13-1976

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Best Available copy

FOR EASY OPENING,



CUT ALONG THIS LINE



**GUTHION 50% WETTABLE POWDER**  
EPA Reg. No. 3125-193-AA

Since the labeling on the attached bag was printed, the use of GUTHION 50% Wettable Powder on apples, crab apples, pears, and quinces by aerial applications has been accepted for registration. Full text of the accepted labeling follows:

| CROP        | INSECT                 | Pounds Guthion 50% WP | REMARKS                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------|------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FRUIT       | Aphids                 |                       | <b>AERIAL APPLICATIONS:</b> Apply specified dosage in a minimum of 3 gallons of water per acre for the Northwestern states and a minimum of 10 gallons of water per acre in other areas. Apply by fixed-wing or helicopter aircraft. Where aphids and mites are a problem aerial applications may not provide satisfactory control. Do not apply more than 5 times at the 2 pound rate nor 3 times at rates above 2 pounds. Do not apply within 7 days of harvest. |
| Apples      | Apple maggot           |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Crab apples | Codling moth           |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Pears       | European apple sawfly  |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Quinces     | Eye-spotted bud moth   |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|             | Forbes scale           |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|             | Fruit tree leaf roller |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|             | Green fruitworm        |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|             | Leafhoppers            |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|             | Mealybug               |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|             | Mites                  |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|             | Orange tortrix         |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|             | Pear psylla            |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|             | Plum curculio          |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|             | Putnam scale           |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|             | Red-Banded leaf roller |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|             | San Jose scale         |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|             | Tarnished plant bug    |                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

2 to 3

BEFORE USE, BE SURE TO READ AND OBSERVE THE OTHER USE AND HANDLING DIRECTIONS AND PRECAUTIONS FOUND ON THE BAG.

Chemagro

GUTHION

50% WETTABLE POWDER  
CROP INSECTICIDE

FOR EFFECTIVE ECONOMICAL INSECT CONTROL

Store in a cool dry place.

NET WEIGHT 2.5 POUNDS



POISON



DANGER

KEEP OUT OF REACH  
OF CHILDREN(See side panel for antidote and  
danger statements.)

## ACTIVE INGREDIENT:

O,O-Dimethyl S-[(4-oxo-1,2,3-benzotriazin  
-3(4H)-yl)methyl] phosphorodithioate ..... 50%INERT INGREDIENTS: ..... 50%  
100%

EPA Reg. No. 3125-193-AA

This product is highly toxic to bees exposed to direct  
treatment or residues on crops. Protective information  
may be obtained from your Cooperative Agricultural  
Extension Service.

573090

*"Chemicals for Agriculture"*CHEMAGRO AGRICULTURAL DIVISION  
MOBAY CHEMICAL CORPORATION  
Box 4913, Kansas City, Missouri 64120

RECOMMENDED APPLICATIONS

| CROP                                                | INSECT                        | Pounds GUTHION 50% W.P. | REMARKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | CROP                                          | INSECT                          | Pounds GUTHION 50% W.P. | REMARKS                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |
|-----------------------------------------------------|-------------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|---------------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| FIELD CROPS                                         | Leathoppers                   | 1/2 to 1                | Apply specified dosage per acre using a minimum of 10 gallons of water per acre. It may be necessary to use 20 to 25 gallons of water per acre on heavy growth for control of alfalfa weevil or Egyptian alfalfa weevil with ground equipment. Do not apply within 14 days of harvest at the rates of 1/2 to 3/4 pounds per acre or within 16 days at the rate of 1 pound per acre. Do not apply rates above 1 pound per acre within 21 days of harvest. Do not apply more than once per cutting at any rate.                                                                                                                                          | FRUIT (cont.)                                 | Blueberry maggot                | 1 to 1 1/2              | Apply specified dosage per acre using approximately 200 gallons of water for good coverage. Repeat as necessary but not more than 4 times per season nor within 3 days of harvest. If multiple late season applications of dust formulations of GUTHION are to be made for blueberry maggot control, then do not make more than two spray applications of GUTHION per season with the last spray no later than June 15.                                                               |          |
|                                                     | Mites                         | 1/2 to 1                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | Fruitworms                      | 1 to 2                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
|                                                     | Alfalfa weevil                | 1/2 to 1 1/2            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | Lecanium scale                  | 1 to 2                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
|                                                     | Egyptian alfalfa weevil       | 1/2 to 1 1/2            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | Plum curculio                   | 1 to 2                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
| Alfalfa Clover                                      | Alfalfa plant bug             | 1 to 1 1/2              | Apply specified dosage per acre in sufficient water for complete coverage. Do not apply more than once per season. Do not harvest for food, feed, forage or graze within 30 days of treatment.                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Cranberries                                   | Sparganothis sulfureana         | 1 to 2                  | Apply specified dosage per acre using approximately 200 gallons of water for good coverage. Repeat as necessary. Do not apply within 21 days of harvest.                                                                                                                                                                                                                                                                                                                              |          |
|                                                     | Flea-hopper                   | 1 to 1 1/2              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | Tipworm                         | 2                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
|                                                     | Grasshoppers                  | 1 to 1 1/2              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | Fireworms                       | 2                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
|                                                     | Lygus bugs                    | 1 to 1 1/2              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               |                                 |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
| Barley Oats Rye Wheat                               | Cereal leaf beetle            | 1/2 to 1                | Apply specified dosage per acre in sufficient water to give complete coverage. Repeat as necessary. Do not apply within 45 days of harvest. Do not graze or feed treated vines to livestock.                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Citrus Fruits                                 | Aphids                          | 1/2 to 3/4              | Apply specified dosage in 100 gallons of water as a full coverage spray* using not more than 2000 gallons of finished spray per acre. A single application per year may be applied up to within 7 days of picking. Where 2 applications are required, the second spray should not be applied within 28 days of harvest. Do not apply more than twice per fruit year. Do not pick fruit or do other work involving contact with the tree, such as pruning, within 7 days of treatment. |          |
|                                                     | Green cloverworm              | 1/2 to 1                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | Black scale                     | 1/2 to 3/4              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
|                                                     | Leafhoppers                   | 1/2 to 1                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | Brown soft scale                | 1/2 to 3/4              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
|                                                     | Leaf miners                   | 1 to 1 1/2              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | Chalk scale                     | 1/2 to 3/4              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
| Soybeans                                            | Leaf rollers                  | 1 to 1 1/2              | Apply specified dosage per acre in sufficient water for complete coverage. Repeat as necessary. Do not apply within 45 days of harvest. Do not graze or feed treated vines to livestock.                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Grapes                                        | Citricola scale                 | 1/2 to 3/4              | Apply specified dosage in 100 gallons of water as a full coverage spray* using not more than 3000 gallons of finished spray per acre. Repeat as necessary but not more than 3 times per season. Minimum dosage applied may be applied up to within 7 days of picking. Higher rates up to 1/2 pound require a 10-day interval to harvest and above 1/2 pound a 12-day interval to harvest.                                                                                             |          |
|                                                     | Stink bugs                    | 1 to 1 1/2              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | Citrus mealybug                 | 1/2 to 3/4              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
|                                                     | Velvet bean caterpillar       | 1 to 1 1/2              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | Citrus rust mite                | 1/2 to 3/4              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
|                                                     | Mexican bean beetle           | 1 to 1 1/2              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | Citrus thrips                   | 1/2 to 3/4              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
| Tobacco                                             | Aphids                        | 1 to 1 1/2              | Apply specified dosage per acre in sufficient water for complete coverage. Repeat as necessary. Do not apply within 45 days of harvest. Do not graze or feed treated vines to livestock.                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Strawberries                                  | Cottony-cushion scale           | 1/2 to 3/4              | Apply specified dosage in 200 gallons of water per acre as a full coverage spray. Repeat as necessary. Do not apply within 5 days of harvest.                                                                                                                                                                                                                                                                                                                                         |          |
|                                                     | Grasshoppers                  | 1 to 1 1/2              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | European brown snail            | 1/2 to 3/4              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
|                                                     | Tobacco hornworm              | 1 to 1 1/2              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | California red scale            | 1/2 to 3/4              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
|                                                     | Tobacco flea beetle           | 1 to 1 1/2              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | Texas citrus mite               | 1/2 to 3/4              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
| FRUIT                                               | Tobacco budworm               | 1 1/2                   | Apply specified dosage in 100 gallons of water as a full coverage spray* using not more than 1,000 gallons of finished spray per acre. Repeat as necessary. Do not apply more than 8 times per season nor within 15 days of harvest. An alternate spray schedule may be used by making 6 applications at rates of 1/2 to 3/4 pound followed by 2 applications at the 1/2 pound rate but not within 7 days of harvest. GUTHION 50% Wettable Powder is compatible with dormant and summer oils which may be added to apple and pear sprays in accordance with local recommendations. Do not use oils within 30 days of sulfur or lime-sulfur treatments. | Apples Crab apples Pears Quinces              | Grape berry moth                | 1/2 to 1                | Apply specified dosage in 200 gallons of water per acre as a full coverage spray. Repeat as necessary. Do not apply within 5 days of harvest.                                                                                                                                                                                                                                                                                                                                         |          |
|                                                     | Aphids                        | 1/2 to 3/4              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | Grape cane girdlers             | 1/2 to 1                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
|                                                     | Apple maggot                  | 1/2 to 3/4              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | Grape mealybug                  | 1/2 to 1                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
|                                                     | Codling moth                  | 1/2 to 3/4              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | Leafhoppers                     | 1/2 to 1                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
| Apples Crab apples Pears Quinces                    | European fruit lecanium scale | 1/2 to 3/4              | Apply specified dosage in 100 gallons of water as a full coverage spray* using not more than 800 gallons of finished spray per acre. Repeat as necessary. Do not apply more than 8 times per season nor within 15 days of harvest. An alternate spray schedule may be used by making 6 applications at rates of 1/2 to 3/4 pound followed by 2 applications at the 1/2 pound rate but not within 7 days of harvest. GUTHION 50% Wettable Powder is compatible with dormant and summer oils which may be added to apple and pear sprays in accordance with local recommendations. Do not use oils within 30 days of sulfur or lime-sulfur treatments.   | NUTS                                          | Mites                           | 1/2 to 1                | Apply specified dosage in 100 gallons of water as a full coverage spray using not more than 500 gallons of finished spray per acre. Do not apply more than twice per season nor within 30 days of harvest. A 10-day interval to harvest and above 1/2 pound require a 10-day interval to harvest.                                                                                                                                                                                     |          |
|                                                     | Forbes scale                  | 1/2 to 3/4              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | Almonds                         | Peach twig borer        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1/2 to 1 |
|                                                     | Fruit tree leaf roller        | 1/2 to 3/4              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | Pecans                          | Peach twig borer        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1/2 to 1 |
|                                                     | Green fruit-worm              | 1/2 to 3/4              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | Walnut scale                    | 1/2 to 1                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
| Apricots Nectarines Peaches                         | Leafhoppers                   | 1/2 to 3/4              | Apply specified dosage in 100 gallons of water as a full coverage spray* using not more than 800 gallons of finished spray per acre. Repeat as necessary. Do not apply more than 8 times per season nor within 15 days of harvest. An alternate spray schedule may be used by making 6 applications at rates of 1/2 to 3/4 pound followed by 2 applications at the 1/2 pound rate but not within 7 days of harvest. GUTHION 50% Wettable Powder is compatible with dormant and summer oils which may be added to apple and pear sprays in accordance with local recommendations. Do not use oils within 30 days of sulfur or lime-sulfur treatments.   | Walnuts                                       | Thrips                          | 1/2 to 3/4              | Apply specified dosage in 100 gallons of water as a full coverage spray using not more than 500 gallons of finished spray per acre. Do not apply more than twice per season nor within 30 days of harvest. A 10-day interval to harvest and above 1/2 pound require a 10-day interval to harvest.                                                                                                                                                                                     |          |
|                                                     | Eye-spotted bud moth          | 1/2 to 3/4              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | Aphids                          | 1/2 to 1                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
|                                                     | Forbes scale                  | 1/2 to 3/4              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | Codling moth                    | 1/2 to 1                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
|                                                     | Leaf miner                    | 1/2 to 3/4              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | European red mite               | 1/2 to 1                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
| Cherry leaf mine Mineola moth                       | San Jose scale                | 1/2 to 3/4              | Apply specified dosage in 100 gallons of water as a full coverage spray* using not more than 800 gallons of finished spray per acre. Repeat as necessary. Do not apply more than 8 times per season nor within 15 days of harvest. An alternate spray schedule may be used by making 6 applications at rates of 1/2 to 3/4 pound followed by 2 applications at the 1/2 pound rate but not within 7 days of harvest. GUTHION 50% Wettable Powder is compatible with dormant and summer oils which may be added to apple and pear sprays in accordance with local recommendations. Do not use oils within 30 days of sulfur or lime-sulfur treatments.   | VEGETABLES                                    | Filbertworm                     | 1/2 to 1                | Apply specified dosage per acre in sufficient water for complete coverage. Repeat as necessary. Do not apply within 30 days of harvest. Do not feed or ensile treated forage.                                                                                                                                                                                                                                                                                                         |          |
|                                                     | Stink bug                     | 1/2 to 3/4              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | Artichokes                      | Plum moth               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3        |
|                                                     | Tarnished plant bug           | 1/2 to 3/4              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | Leaf rollers                    | 1/2 to 1                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
|                                                     | Walnut scale                  | 1/2 to 3/4              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | Mites                           | 1/2 to 1                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
| Apricots Nectarines Peaches                         | White peach scale             | 1/2 to 3/4              | Apply specified dosage in 100 gallons of water as a full coverage spray* using not more than 800 gallons of finished spray per acre. Repeat as necessary. Do not apply more than 8 times per season nor within 15 days of harvest. An alternate spray schedule may be used by making 6 applications at rates of 1/2 to 3/4 pound followed by 2 applications at the 1/2 pound rate but not within 7 days of harvest. GUTHION 50% Wettable Powder is compatible with dormant and summer oils which may be added to apple and pear sprays in accordance with local recommendations. Do not use oils within 30 days of sulfur or lime-sulfur treatments.   | Beans (Dry & Snap)                            | Leafhoppers                     | 1/2 to 1                | Apply specified dosage per acre in sufficient water for complete coverage. Repeat as necessary. Do not apply within 30 days of harvest. Do not feed or ensile treated forage.                                                                                                                                                                                                                                                                                                         |          |
|                                                     | Thrips                        | 1/2 to 3/4              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | Leaf miners                     | 1/2 to 1                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
|                                                     | Aphids                        | 1/2 to 3/4              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | Velvet bean caterpillar         | 1/2 to 1                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
|                                                     | Eye-spotted bud moth          | 1/2 to 3/4              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | Mexican bean beetle             | 1/2 to 1                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
| Plums Prunes                                        | Forbes scale                  | 1/2 to 3/4              | Apply specified dosage per acre in sufficient water for complete coverage. Repeat as necessary. Do not apply within 30 days of harvest. Do not feed or ensile treated forage.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Broccoli Brussels Sprouts Cabbage Cauliflower | Spotted cucumber beetle         | 1/2 to 1                | Apply specified dosage per acre in sufficient water for complete coverage. Repeat as necessary. Do not apply within 30 days of harvest. Do not feed or ensile treated forage.                                                                                                                                                                                                                                                                                                         |          |
|                                                     | Fruit tree leaf roller        | 1/2 to 3/4              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | Striped cucumber beetle         | 1/2 to 1                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
|                                                     | Lesser peach tree borer       | 1/2 to 3/4              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | Tarnished plant bug             | 1/2 to 1                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
|                                                     | Mites                         | 1/2 to 3/4              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | Western-striped cucumber beetle | 1/2 to 1                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
| Blackberries Boysenberries Loganberries Raspberries | Orange tortrix                | 1/2 to 3/4              | Apply specified dosage per acre in sufficient water for complete coverage. Repeat as necessary. Do not apply within 30 days of harvest. Do not feed or ensile treated forage.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Cabbage                                       | Aphids                          | 1 to 1 1/2              | Apply specified dosage per acre in sufficient water for complete coverage. Repeat as necessary. Do not apply within 7 days of harvest for Brussels sprouts, 15 days of harvest for broccoli and cauliflower, nor within 21 days of harvest for cabbage.                                                                                                                                                                                                                               |          |
|                                                     | Peach tree borer              | 1/2 to 3/4              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | Cabbage looper                  | 1 to 1 1/2              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
|                                                     | American plum borer           | 1/2 to 3/4              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | Diamondback moth                | 1 to 1 1/2              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
|                                                     | Leafhoppers                   | 1/2 to 3/4              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               | Imported cabbageworm            | 1 to 1 1/2              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
| Blackberries Boysenberries Loganberries Raspberries | Leaf rollers                  | 1/2 to 3/4              | Apply specified dosage per acre in sufficient water for complete coverage. Repeat as necessary. Do not apply within 30 days of harvest. Do not feed or ensile treated forage.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Cabbage                                       | Cabbage maggot                  | 1/2 to 3/4              | Mix specified dosage in 50 gallons of water. Apply 4 to 6 ounces of this emulsion per plant at or immediately after transplanting.                                                                                                                                                                                                                                                                                                                                                    |          |
|                                                     | Leaf miners                   | 1/2 to 3/4              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               |                                 |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
|                                                     | Aphids                        | 1/2 to 3/4              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               |                                 |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |
|                                                     | Obscure root weevil           | 1                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                               |                                 |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |

# RECOMMENDED APPLICATIONS

| CROPS                                                                          | INSECT                                                                                                                                                               | Pounds<br>OUTHION<br>50% W.P. | REMARKS                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| VEGETABLES<br>(continued)                                                      | Cabbage maggot<br>(Direct seeded<br>fields in<br>California<br>only)                                                                                                 | 1 1/2                         | Apply specified dosage per acre in sufficient water for uniform distribution. Mix in upper 2 inches of soil prior to seeding or spray in the seed row at planting time. Usually 2 to 3 additional sprays are necessary during the growing season, depending on time of year and maggot population. Do not apply within 21 days of harvest.                          |
|                                                                                | Cabbage maggot<br>(Transplant fields<br>in California<br>only)                                                                                                       | 1 1/2                         | Apply specified dosage in 300 to 400 gallons of water per acre as a soil drench in rows when damage first appears. Additional applications may be necessary. Do not apply within 21 days of harvest.                                                                                                                                                                |
| Celery                                                                         | Aphids<br>Leaf miners<br>Leafhoppers<br>Spittlebug<br>Tarnished plant bug                                                                                            | 1                             | Apply specified dosage in 100 gallons of water as a full coverage spray using not more than 200 gallons of finished spray per acre. Repeat as necessary but not within 14 days of harvest.                                                                                                                                                                          |
| Black-eyed<br>peas<br>(Southern<br>peas,<br>Crowder<br>peas)                   | Corn earworm<br>Cowpea curculio                                                                                                                                      | 1 1/2<br>to<br>2              | Apply specified dosage per acre in sufficient water for complete coverage. Do not apply more than 4 times per season nor within 7 days of harvest. Do not use vines for feed or forage nor pasture treated areas.                                                                                                                                                   |
|                                                                                | Leaf miners<br>Stink bugs                                                                                                                                            | 1/2<br>to<br>1                |                                                                                                                                                                                                                                                                                                                                                                     |
| Cucumbers                                                                      | Spotted cucumber beetle<br>Striped cucumber beetle<br>Western-striped<br>cucumber beetle                                                                             | 1                             | Apply specified dosage per acre in sufficient water for complete coverage. Do not apply more than 3 times per season nor within 1 day of harvest.                                                                                                                                                                                                                   |
| Eggplant                                                                       | Leaf miners                                                                                                                                                          | 1/2 to<br>1                   | Apply specified dosage per acre in sufficient water to give complete coverage. Repeat as necessary. Do not apply after fruit set.                                                                                                                                                                                                                                   |
|                                                                                | European corn borer<br>Flea beetles                                                                                                                                  | 1                             |                                                                                                                                                                                                                                                                                                                                                                     |
| Onions<br>(Green & Dry)                                                        | Thrips                                                                                                                                                               | 1<br>to<br>1 1/2              | Apply specified dosage per acre in sufficient water to give complete coverage. Do not apply more than 3 times per season nor within 28 days of harvest of dry onions or 7 days of harvest of green onions.                                                                                                                                                          |
| Peppers                                                                        | Leaf miners                                                                                                                                                          | 1/2<br>to<br>1                | Apply specified dosage per acre in sufficient water to give complete coverage. A maximum of 4 treatments may be made up to within 3 days of harvest. Where more than 4 applications are required, do not apply last spray within 14 days of harvest.                                                                                                                |
|                                                                                | European corn borer<br>Flea beetles                                                                                                                                  | 1                             |                                                                                                                                                                                                                                                                                                                                                                     |
| Potatoes                                                                       | Colorado potato beetle                                                                                                                                               | 1/2                           | Apply specified dosage per acre in sufficient water for complete coverage. Repeat as necessary. Do not apply within 7 days of harvest.                                                                                                                                                                                                                              |
|                                                                                | Banded cucumber beetle<br>Leaf miners                                                                                                                                | 1/2<br>to<br>1                |                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                | European corn borer<br>Flea beetle<br>Leafhoppers<br>Spittlebugs<br>Tarnished plant bug                                                                              | 1<br>to<br>1 1/2              |                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                | Tubeworm                                                                                                                                                             | 1 1/2 to<br>2                 |                                                                                                                                                                                                                                                                                                                                                                     |
| Spinach                                                                        | Aphids<br>Leaf miners<br>Mites                                                                                                                                       | 1/2<br>to<br>1                | Apply specified dosage per acre in sufficient water for complete coverage. Repeat as necessary. Do not apply within 14 days of harvest.                                                                                                                                                                                                                             |
|                                                                                | Colorado potato beetle                                                                                                                                               | 1/2                           |                                                                                                                                                                                                                                                                                                                                                                     |
| Tomatoes                                                                       | Banded cucumber beetle<br>Green stink bug<br>Leaf miners<br>Whitefly                                                                                                 | 1/2<br>to<br>1                | Apply specified dosage per acre in sufficient water for complete coverage. Repeat as necessary. The high rate should be used where heavy infestations of late instar greenhouse番茄worms (large worms) and European corn borer, (larvae of the pounds of larvae found per acre) are present. Do not apply more than 4 times per season nor within 14 days of harvest. |
|                                                                                | Aphids<br>European corn borer<br>Flea beetles<br>Grasshoppers<br>Leafhoppers<br>Thrips                                                                               | 1<br>to<br>1 1/2              |                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                | Tubeworm                                                                                                                                                             | 1 1/2 to<br>2                 |                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                | Corn earworm<br>Flea beetles<br>Grasshoppers<br>Leafhoppers<br>Thrips                                                                                                | 1<br>to<br>1 1/2              |                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                | Colorado potato beetle                                                                                                                                               | 1/2                           |                                                                                                                                                                                                                                                                                                                                                                     |
|                                                                                | Leaf miners                                                                                                                                                          | 1/2 to<br>1                   |                                                                                                                                                                                                                                                                                                                                                                     |
| MELONS                                                                         | Colorado potato beetle                                                                                                                                               | 1/2                           | Apply specified dosage per acre in sufficient water for complete coverage. Repeat as necessary up to the day of harvest but not more than 4 times per season.                                                                                                                                                                                                       |
| Honeydew<br>Melons<br>Muskmelon<br>(Cantaloupe)<br>Watermelons<br>Other melons | Colorado potato beetle                                                                                                                                               | 1/2                           | Apply specified dosage per acre in sufficient water for complete coverage. Repeat as necessary up to the day of harvest but not more than 4 times per season.                                                                                                                                                                                                       |
| ORNAMENTALS                                                                    | Aphids<br>Carionaceous scale<br>Eucynips scale<br>Juniper scale<br>Lace bugs<br>Leafhoppers<br>Mites<br>Nine scale<br>Oystershell scale<br>Palm-leaf scale<br>Thrips | 1/2<br>to<br>1                | Apply specified dosage per 100 gallons of water (300 to 400 gallons per acre). Spray all foliage surfaces including the undersides of leaves for complete coverage. For control of broad pine leaf scale, brown oystershell scale, and palm-leaf scale, use 4 quart temperature per gallon. Repeat as necessary.                                                    |
|                                                                                | Brown soft scale<br>Palm-leaf scale                                                                                                                                  | 1/2 to<br>1                   |                                                                                                                                                                                                                                                                                                                                                                     |
| Ornamentals,<br>Nursery<br>Plants,<br>Forest &<br>Shade Trees                  | Black pine leaf scale<br>European elm scale                                                                                                                          | 1/2 to<br>1                   | Apply specified dosage per 100 gallons of water. Thorough coverage of cones is necessary for maximum control. Repeat as necessary.                                                                                                                                                                                                                                  |
|                                                                                | Cone sawfly<br>Cone moth                                                                                                                                             | 1/2 to<br>1                   |                                                                                                                                                                                                                                                                                                                                                                     |
| European elm<br>Scale<br>Nursery<br>Plants                                     | European elm scale<br>Nursery plants                                                                                                                                 | 1/2 to<br>1                   | Apply specified dosage per acre in sufficient water for complete coverage. Time applications to coincide with new growth. For application to nursery trees use 1 level tablespoon of Outthion 50% Wettable Powder per gallon of water.                                                                                                                              |
|                                                                                | European elm scale<br>Nursery plants                                                                                                                                 | 1/2 to<br>1                   |                                                                                                                                                                                                                                                                                                                                                                     |
| European elm<br>Scale<br>Nursery<br>Plants                                     | European elm scale<br>Nursery plants                                                                                                                                 | 1/2 to<br>1                   | Apply specified dosage per 100 gallons of water. Thorough coverage of cones is necessary for maximum control. Repeat as necessary.                                                                                                                                                                                                                                  |
|                                                                                | European elm scale<br>Nursery plants                                                                                                                                 | 1/2 to<br>1                   |                                                                                                                                                                                                                                                                                                                                                                     |

This recommendation is calculated for conventional hydraulic-type sprayers. When lower volumes are applied per acre with concentrated sprayers, increase the concentration of Outthion 50% Wettable Powder in the spray mixture in order to apply amount of Outthion 50% Wettable Powder per gallon of water.

## DIRECTIONS FOR USE

**IMPORTANT:** Read these entire Directions and Conditions of Sale, including the Warranty and Limitation of Damages provision, before using GUTHION 50% Wettable Powder.

**CONDITIONS OF SALE:** These Directions for Use reflect the opinion of experts based on tests of effectiveness, toxicity to plants and laboratory animals and of residues on or in food and feed under normal conditions of use. However, because of the wide range of conditions under which this product may be used, even though label directions are followed, it is impossible to eliminate all risks associated with its use because of abnormal conditions beyond the control of the seller. Chemagro and the Seller offer, and the Buyer uses, this product subject to the understanding that the Buyer assumes all such risks.

**MIXING:** GUTHION 50% Wettable Powder insecticide mixes easily with water to form a suspension which is readily usable in all conventional ground spray equipment. Mix the required amount of GUTHION 50% Wettable Powder with a small quantity of water. Add this premix through the screen while filling the spray tank or fill the tank to the required level and add the premix. Operate the agitator while mixing.

**DOSAGE:** Use specified dosage of GUTHION 50% Wettable Powder in the amount of water necessary to give complete coverage of foliage. The type of equipment used will determine the concentration required.

**SPRAYING:** Work to windward. Protect sprayer operators from drift or mist. When low volumes of spray are applied complete coverage and thorough application are essential for most effective results. Schedule applications in accordance with local conditions. Consult your State Agricultural Experiment Station or Extension Service for specific use information in your area.

## RESTRICTIONS

Do not use on other crops used for food or forage. Use only according to label directions. Application at rates above those shown may result in illegal crop residues. Do not graze livestock in treated orchards or groves for 21 days after treatment. Do not treat food crops grown in the greenhouse.

This product is toxic to fish, birds, and other wildlife. Keep out of lakes, streams, or ponds. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment, or disposal of wastes. Apply this product only as specified on this label.

## CONTAINER DISPOSAL

**DO NOT RE-USE THE CONTAINER**—Completely empty the contents and bury the unused chemical at least 18 inches deep in an isolated location away from water supplies.

Burn the empty container completely. Exercise extreme caution and stay well away from the smoke.

Do not use container in any connection with feed, food, or drinking water.

## DANGER

**Poisonous if swallowed, inhaled, or absorbed through the skin.** Do not get on skin. Do not breathe dust or spray mist. Spray operator should wear windward to stay out of drift or mist.

When loading spray tank or handling the powder at any other time, wear protective clothing, natural rubber gloves and goggles. A mask or respirator recommended by the U.S. Bureau of Mines for protection against GUTHION should be worn when handling the powder.

Do not contaminate feed or foodstuffs. Keep out of reach of children and domestic animals. Keep all unprotected persons out of the operating area or vicinity where there may be danger of drift. Wash hands, arms, and face thoroughly with soap and warm water before eating or smoking. Wash all contaminated clothing with soap and hot water before reuse.

**SYMPTOMS OF POISONING:** A sense of "lightness" in the chest. Sweating. Contracted pupils. Stomach pains. Vomiting and diarrhea.

**TREATMENT:** In case of poisoning call a physician immediately. Have patient lie down and keep quiet. If swallowed, induce vomiting by giving a tablespoonful of salt in a glass of warm water. Administer milk or water freely and again induce vomiting until vomit fluid is clear. If on skin, remove contaminated clothing and wash skin immediately with soap and warm water. If eyes are contaminated, wash with flowing water for at least 15 minutes.

## TO PHYSICIAN:

**ANTIDOTE:** Administer atropine sulfate in large therapeutic doses as necessary to the point of tolerance. 2 P.A.M. is also administered in conjunction with atropine.

Compound inhibits cholinesterase resulting in stupor, paralysis of nervous system, the parasympathetic nervous system, and somatic motor nerves. Do not give morphine. Morphine causes pulmonary edema, which may develop in serious cases of poisoning even after 12 hours. At first sign of pulmonary edema, the patient should be placed in an oxygen tent and treated symptomatically.

## WARRANTY AND LIMITATION OF DAMAGES

Chemagro warrants that only material conforming 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 state referred to herein. 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 specific reference to this warranty. Any damages arising from a breach of this warranty shall be limited to the purchase price of the product, and shall not include consequential or incidental damages, such as loss of profits or value, etc. GUTHION is a registered trademark of the Parson Company of Farmington, Conn. Lever Brothers Company is the U.S. distributor.

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