

19713-544

6/10/2004

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:
19713-544

Date of Issuance:
JUN 10 2004

NOTICE OF PESTICIDE:-
 x Registration
 Reregistration

(under FIFRA, as amended)

Term of Issuance:
Conditional

Name of Pesticide Product:
Drexel Acephate 90S

Name and Address of Registrant (include ZIP Code):

Drexel Chemical Company
P.O. Box 13327
Memphis, TN 38113-9327

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you add the designation, "EPA Reg. No.19713-544" to both the water soluble packaging label and the non-water soluble packaging label before you release the product for shipment.

Since the Interim Reregistration Eligibility Decision (IRED) and the accompanying Data Call-In have been issued for acephate and you have referenced a registered acephate product in support of your product, the subject registration is conditioned on acceptable data being submitted for the supporting product in response to the DCI or new data being submitted to replace any unacceptable data. If the data are unacceptable and will not be replaced, both your product registration and the supporting product registration will be subject to providing these data or being suspended.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of each label is enclosed for your records.

Signature of Approving Official:

Marilyn A. Smith

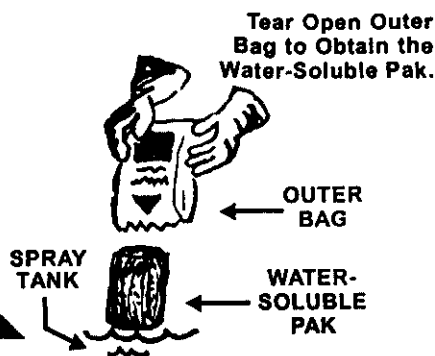
Date:

JUN 10 2004

ACCEPTED
with COMMENTS
in EPA Letter Dated:

JUN 10 2004

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
19713-544



2/12

Acephate 90S

Insecticide

Insecticide In Water-Soluble Bag

ACTIVE INGREDIENT:

Acephate	90.0%
OTHER INGREDIENTS:	10.0%
TOTAL:	100.0%

KEEP OUT OF REACH OF CHILDREN
CAUTION
SEE FIRST AID BELOW

EPA Reg. No. 19713-LUU
EPA Est. No. 19713-

Net Contents: _____

FIRST AID	
IF SWALLOWED:	<ul style="list-style-type: none"> Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious or convulsing person.
IF IN EYES:	<ul style="list-style-type: none"> Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes.
IF INHALED:	<ul style="list-style-type: none"> Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
<p>Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling poison control center or doctor, or going for treatment. For information on this pesticide product (including health concerns, medical emergencies or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378.</p>	
<p>NOTE TO PHYSICIAN: Acephate is a cholinesterase inhibitor. If signs and symptoms of cholinesterase inhibition appear, atropine is antidotal. 2-PAM is also antidotal and may be administered in conjunction with atropine but should not be used alone.</p>	

PRECAUTIONARY STATEMENTS

Hazards To Humans And Domestic Animals

CAUTION: Harmful if swallowed. Causes eye irritation. Avoid contact with eyes, skin and clothing. Avoid breathing dust or spray mist. Wash hands thoroughly after handling. Do not allow children or pets to come into contact with treated areas until sprays have dried.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical resistance category selection chart.

Mixers loaders, applicators and other handlers must wear: long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride for all mixers and loaders and for applicators using handheld application equipment, and shoes plus socks. In addition, applicators using low pressure hand wand application equipment must wear a NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any N, R, P, or HE filter.

(Continued)

(Cont.)

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions exist, use detergent and hot water. Keep and wash PPE separately from other laundry. See engineering controls for additional requirements.

ENGINEERING CONTROL STATEMENTS

Water-soluble packets when used correctly qualify as a closed mixing/loading system under the Worker Protection Standard for Agricultural Pesticides [40 CFR 170.240(d)(4)]. Mixers and loaders using water-soluble packets must:

- wear the personal protective equipment required above for mixers/loaders, and
- be provided and must have immediately available for use in an emergency, such as a broken package, spill, or equipment breakdown the following PPE: coveralls, chemical-resistant footwear and a NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any N, R, P, or HE filter.

Pilots must use an enclosed cockpit in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)].

The use of human flaggers is prohibited.

USER SAFETY RECOMMENDATIONS

Users should: 1) Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. 2) Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. (3) Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to birds. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters. Cover or soil-incorporate spills. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting treatment area.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

Do not apply by low pressure hand wand equipment except for uses: a) Use for control of fire ants as a mound treatment; b) Non-agricultural uses on ornamental trees, shrubs and floral plants. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.



Manufactured By:
Drexel Chemical Company

P.O. BOX 13327, MEMPHIS, TN 38113-0327

SINCE 1972

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves made of any waterproof material.
- Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter or allow others to enter treated areas until sprays have dried.

GENERAL INFORMATION

ACEPHATE 90S, a soluble powder, is an insecticide for control of pests on selected agricultural crops and in certain non-crop areas. The active ingredient in this product is acephate, a water-soluble insecticide readily absorbed by plant roots and foliage to give systemic control of feeding insects. Insect pests are generally controlled more effectively by acephate through ingestion than by contact. Application of this product to maintain control should be repeated only as directed.

SPRAY DRIFT STATEMENTS

Do not allow spray to drift from the application site and contact people, structures people occupy at any time and the associated property, parks and recreation areas, nontarget crops, aquatic and wetland areas, woodlands, pastures, rangelands, or animals.

For ground boom applications, apply with nozzle height no more than 4 feet above the ground or crop canopy and when wind speed is 10 mph or less at the application site as measured by an anemometer. Use fine, medium or coarser spray according to ASAE 572 definition for standard nozzles or VMD for spinning atomizer nozzles.

For airblast applications, direct spray above foliage and turn off outward pointing nozzles at row ends and outer rows. Apply only when wind speed is 3-10 mph at the application site as measured by an anemometer outside of the treated area on the upwind side.

For aerial applications, the boom width must not exceed 75% of the wingspan or 90% of the rotary blade. Use upwind swath displacement and apply only when wind speed is 3-10 mph as measured by an anemometer. Use fine, medium or coarser spray according to ASAE 572 definition for standard nozzles or VMD for spinning atomizer nozzles. If application includes a no-spray zone, do not release spray at a height greater than 10 feet above the ground or the crop canopy.

For overhead chemigation, apply only when wind speed is 10 mph or less.

FOR ORNAMENTAL USES ONLY:

To ensure that this product is compatible with the variety or cultivar of the listed ornamental crops under your specific conditions, test the product on a limited scale and observe for phytotoxicity over two weeks before making large scale applications. The large number of existing ornamental varieties and cultivars coupled with the constant introduction of new variants precludes specific testing of each type. It is impossible to field test this product in every locale where sold or in all of the combinations created by differences including those in soil or media type, pH, moisture of fertility, environment conditions such as temperature, lighting or degree days and horticultural practice including planting dates, control of other pests, timing of various horticultural practice and the manner of use and application of this product.

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND USE PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR INSECT CONTROL, CROP INJURY, AND/OR ILLEGAL RESIDUES.

TANK MIXES

NOTICE: Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor. Read and follow the entire label of each product to be used in the tank mix with this product.

CHEMIGATION

Apply to Cranberries only by sprinkler irrigation systems. Do not apply by chemigation to any other crop, or this crop using any other type of irrigation system.

WATER SOLUBLE PACKAGING

MULTIPLE PACKAGING

This bag contains multiple water soluble packets of this product. Do not handle the packets with wet gloves or allow the packets to become wet prior to addition to spray tank. Do not break open packets. Refer to the Table of Equivalents to calculate the number of packets to use. If all packets are not used, close and reseal outer container to protect remaining packet(s).

SINGLE PACKAGING

This bag contains one water soluble packet of this product. Do not handle the packet with wet gloves or allow the packet to become wet prior to addition to spray tank. Do not break open packets. Refer to the Table of Equivalents to calculate the number of packets to use. Open outer bag by pulling perforated tearstrip and drop the unopened inner packet of this product into spray tank.

PREPARATION OF SPRAY SOLUTION

To prepare spray solution, drop the unopened packet(s) of this product into a spray tank containing at least one-half the total quantity of water required. Direct water at the floating packet(s) and continue to add water with the agitator running until the spray volume is reached. Do not add any liquid fertilizers, micronutrients or adjuvants to the spray solution until after the packet and its contents have completely dissolved. Water soluble packet(s) should completely dissolve in approximately five minutes. Dissolution rate may be slowed by cold water, lack of agitation, or water containing high concentrations of boron or sulfur.

TABLE OF EQUIVALENTS

Rates of This Product Per Acre	Acres Treated by a 2.5 lb. WSP Packet
2.5 ozs.	16
3.2 ozs.	12.5
3.25 ozs.	12.3
0.25 lb.	10
0.28 lb.	8.9
0.5 lb.	5
0.56 lb.	4.5
0.8 lb.	3.1
1.0 lb.	2.5
1.1 lbs.	2.3

BEANS AND LIMA BEANS - Dry and Succulent Forms

Application Method	Pests Controlled	Rates of This Product Per Acre	Remarks	Days to Harvest
FOLIAR By Ground: 20 to 100 gals./A of spray	Fleahoppers Grasshoppers	0.25 to 0.5 lb. (4 to 8 ozs.)	Apply when eggs or insects first appear.	14 (Snapbeans - Succulent or Dry beans)
	Aphids (excluding Black bean aphid) Bean leaf beetle Bean leafroller Cabbage looper Cutworms Green cloverworm Leafhoppers Mexican bean beetle Plantbugs (Lygus) Soybean looper Thrips Whitefly (except Sweetpotato or Silverleaf whitefly)	0.5 to 1.1 lbs. (8 to 17.8 ozs.)	Repeat at 3- to 7-day spray intervals as necessary to maintain control.* Use the longer spray interval if rate applied is more than 0.8 lb./A. Use higher rates for severe insect infestations.	0 (Lima beans - succulent form)
By Air: Minimum of 2 gals./A of spray	Armyworms (excluding Beet armyworm) Corn earworm European corn borer	0.8 to 1.1 lbs. (12.8 to 17.6 ozs.)		

Use Precautions:

Do not feed treated vines to livestock.

*Do not apply more than 2.2 lbs./A (2 lbs. a.i.) per season.

CELERY

Application Method	Pests Controlled	Rates of This Product Per Acre	Remarks	Days to Harvest
FOLIAR By Ground: 50 to 100 gals./A of spray By Air: Minimum of 5 gals./A of spray	Green peach aphid	0.5 to 1.1 lbs. (8 to 17.6 ozs.)	Apply when eggs or insects first appear. Repeat at 3- to 7-day spray intervals as necessary to maintain control.*	21
	Cabbage looper Fall armyworms	1.1 lbs. (17.6 ozs.)	Use the longer spray interval if rate applied is more than 0.8 lb./A.	
Use Precautions: *Do not apply more than 2.2 lbs./A (2 lbs. a.i.) per season. All Celery must be trimmed (tops removed) before shipment for use. Do not use trimmed tops for food or feed.				

CITRUS (Non-Bearing)

General Use Precautions:

Do not graze treated areas.

DO NOT HARVEST citrus for one year after treatment.

Application Method	Pests Controlled	Rates of This Product Per Acre	Remarks
FOLIAR By Ground: 100 to 200 gals./A of spray	Aphids Grasshoppers Katydid Mealybugs Orangedogs Plantbugs Thrips Whiteflies (except Sweetpotato/Silverleaf)	0.5 lb. (8 ozs.)	Repeat application at 3-day interval as necessary to maintain control.
	Citrus blackfly	0.5 to 0.8 lb. (8 to 12.8 ozs.)	Apply when eggs or insects first appear. Use the high rate when heavy infestation is present. Repeat at 3- to 7-day spray intervals. Use the longer spray interval if the higher rate is applied.
	Ants (including imported fire ants and Harvester ants)	0.8 lb. (12.8 ozs.)	Repeat application at 7-day interval as necessary to maintain control.
Spray individual juvenile or non-bearing trees for coverage with total application not to exceed specified rate in pounds per acre. Length of residual activity will depend upon spray coverage and the amount of moisture following application.			
SOIL MOUND TREATMENT DRENCH METHOD	Ants (including imported fire ants and Harvester ants)	0.8 oz./5 gals.	Apply 1 gal. of mix to each mound area by sprinkling the mound until it is wet and treat a four (4) foot diameter circle around the mound. Repeat application as necessary to maintain control.

COLE CROPS - BRUSSELS SPROUTS & CAULIFLOWER

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Application Method	Pests Controlled	Rates of This Product Per Acre	Remarks	Days to Harvest
FOLIAR By Ground: 25 to 150 gals./A of spray By Air: Minimum of 5 gals./A of spray	Green peach aphid	0.5 to 1.1 lbs. (8 to 17.6 ozs.)	Use the high rate when heavy infestations of aphids are present. Apply when eggs or insects first appear. Repeat application at 3- to 7-day intervals as necessary to maintain control.*	14
	Cabbage looper Diamond-back moth larvae Imported Cabbage worm	1.1 lbs. (17.6 ozs.)	Diamondback moth larvae - This insect has demonstrated an ability to develop resistance to various classes of insecticides. Consult your local Agricultural Extension Service for current recommended control practices for this insect.	
Use Precautions: *Use the longer spray interval of 7 days if rate applied is more than 0.8 lb./A. Do not apply more than 2.2 lbs./A (2 lbs. a.i.) per season to Brussels Sprouts and Cauliflower. Do not feed trimmings to livestock or allow animals to graze in treated areas.				

COTTON (This Product Alone)

General Use Precautions

Do not feed gin trash to livestock.

Do not allow animals to graze on treated areas.

Application Method	Pests Controlled	Rates of This Product Per Acre	Remarks	Days to Harvest
IN FURROW By Ground: 3 to 5 gals./A of spray AT-PLANTING APPLI-CATION	Aphids* Black (greasy) cutworm (except CA) Thrips (including Western flower thrips) * excluding Cotton aphids in AZ & CA	0.56 to 1.1 lbs. NOTE: For the Blacklands of TX use 1.1 lb./A of this product.	Use flat-fan nozzles for in-furrow application. Align nozzles to ensure good spray deposition into the seed furrow. Cone type nozzles are not recommended since unacceptable spray deposition may occur. Securely fasten spray-system tubing to furrow opener and check frequently to ensure proper positioning and operation. This product can be mixed with fungicides that are sprayed in-furrow for disease control.	At-planting application
FOLIAR By Ground: 10 to 25 gals./A of spray By Air: 3 to 10 gals./A of spray (minimum of 5 gals./A in AZ & CA)	Thrips (including Western flower thrips)	By Ground and Air: 3.2 ozs.	Apply when eggs or insects first appear. Repeat application as necessary to maintain control.**	21
	Plantbugs (Lygus)	By Ground: 0.25 to 1.0 lb. By Air: 0.25 to 0.83 lb. By Ground and Air: 0.5 to 1.0 lb. (AZ & CA)	Apply when eggs or insects first appear. Use highest rate for Lygus adults that have migrated into Cotton. Repeat application at 3- to 7-day intervals as necessary to maintain control.**	21
	Fleahopper	By Ground and Air: 0.25 lb.	Apply when eggs or insects first appear. Repeat application at 3-day intervals as necessary to maintain control.**	21
	Cotton aphids (excluding AZ and CA)	By Ground: 0.5 to 1.0 lb. By Air: 0.5 to 0.83 lb.	This insect may develop resistance to various classes of insecticides. Consult your local Agricultural Extension Service for current control recommendations. Repeat application at 3- to 7-day intervals as necessary to maintain control.**	21

Continued

Application Method	Pests Controlled	Rates of This Product Per Acre	Remarks	Days to Harvest
FOLIAR By Ground: 10 to 25 gals./A of spray By Air: 3 to 10 gals./A of spray (minimum 5 gals./A in AZ and CA).	Whiteflies (excluding Sweetpotato whitefly/Silverleaf whitefly)	By Ground: 0.5 to 1.0 lb. By Air: 0.5 to 0.83 lb	Repeat application at 3- to 7-day intervals as necessary to maintain control.**	21
	Armyworms (excluding Beet armyworm) Cabbage looper	By Ground: 1.0 lb. By Air: 0.83 lb. By Ground: and Air: (AZ & CA): 1.0 lb.	Apply when eggs appear and repeat at 7-day spray intervals.**	21
	Bollworm Tobacco budworm Adults Larvae	By Ground: 0.5 to 1.0 lb. By Air: 0.5 to 0.83 lb. (East of Rockies) By Ground: and Air: 1.0 lb. (AZ & CA) By Ground: and Air: 0.25 to 0.5 lb.	Early Season: Use 0.5 lb./A for light infestation. Mid and Late Season: Use 0.8 to 1.0 lb./A for moderate to severe infestations. Apply when eggs appear and repeat at 7-day spray intervals.** Use the larger spray interval if rate applied is more than 0.8 lb./A. Moths of Budworm larvae are controlled by direct contact with spray. Moth kill is most likely to occur when late evening applications are made. DEADHATCH: Control of emerging larvae by consumption of treated egg casings.	21
	Eggs/ (DEAD-HATCH*)	By Ground: and Air: 0.25 to 0.5 lb.	DEADHATCH: Control of emerging larvae by consumption of treated egg casings.	
	Stinkbugs	By Ground: and Air: 0.8 lb.	Apply when eggs appear and repeat at 7-day spray intervals.**	21
	Pink bollworm (AZ & CA)	By Ground: and Air: 1.0 lb.	Apply when insects appear and repeat at 7-day spray intervals.**	21
Cutworms	By Ground: and Air: 0.8 lb.	Ground application is recommended. Aerial applications are less effective, but may be used. Control is most effective when ground application is made in the evenings and sprays are directed toward the base and lower portion of plant. Apply when insects first appear or damage is first noted and repeat application at 7-day intervals to maintain control.**	21	
Use Precautions: **Use the longer spray interval of 7 days if rate applied is more than 0.6 lb./A. Do not apply more than 6 lbs. a.i./A per season. This includes the use of Payloed® 15 Granular as an in-furrow at planting treatment, all foliar spray, liquid in-furrow application and seed treatment uses.				

COTTON (This Product In Tank Mixture)

General Use Precautions:

Do not feed gin trash or treated forage to livestock.
Do not allow livestock to graze on treated areas.

Always read and follow all label directions when using any pesticide alone or in tank mix combinations. Observe all restrictions and use precautions which appear on all product labels. The most restrictive label applies when using a tank mix.

Synthetic Pyrethroids such as Ammo, Asana, Baythroid, Capture, Karate and Scout should be used within the guidelines of state and/or regional resistance management programs and recommendations.

Application Method	Pests Controlled	This Product + Tank Mix Partner	Amount of This Product + Tank Mix Partner Per Acre	Remarks	Days to Harvest
FOLIAR By Ground: 10 to 25 gals./A of spray By Air: 3 to 10 gals./A of spray (minimum 5 gals./A in CA).	Sweetpotato whitefly (Silverleaf whitefly)	This product + DANITOL 2.4 EC Spray	By Ground: 0.5 to 1.0 lb. By Air: 0.5 to 0.83 lb. By Air: (CA) 0.5 to 1.0 lb. + 10.66 to 16 fl. ozs.	User should comply with all applicable directions, restrictions and use precautions on the EPA registered label for DANITOL 2.4 EC Spray.	21
	Armyworms (excluding Beet armyworm) Bollworm Cabbage looper Cotton aphid Cutworms Fleahopper Grasshoppers Pink bollworm Plantbugs (Lygus, Mirids) Salt marsh caterpillar Thrips (including Western flower thrips) Tobacco budworm Whiteflies (excluding Sweetpotato/Silverleaf whitefly)	This product + LORSBAN® 4E	By Ground: 0.28 to 1.1 lbs. + 1 to 2 pts. By Air: 0.28 to 0.83 lb. By Air: (CA) 0.28 to 1.1 lbs.	User should comply with all applicable directions, restrictions and use precautions on the EPA registered label for LORSBAN® 4E. Cutworms: Use of 0.8 lb./A of this product By Ground: Ground application is recommended. Control is most effective when ground application is made in the evenings and sprays are directed toward the base and lower portion of plant. By Air: Aerial applications are less effective, but may be used. Apply when insects first appear or when damage is first noted and repeat application as necessary at 3- to 7-day intervals to maintain control.*	21
FOLIAR By Ground: 10 to 25 gals./A of spray By Air: 3 to 5 gals./A of spray (minimum 5 gals./A in CA). See remarks for Cutworms.	Aphids Bollworm Cabbage looper Cotton leaf perforator Cutworms Fall armyworm Fleahoppers Pink bollworm (AZ & CA) Plantbugs Stinkbugs Sweetpotato/Silverleaf whitefly Thrips (including Western flower thrips) Tobacco budworm Whiteflies	This product + one of the following: AMMO® 2.5 EC¹	By Ground: 0.5 to 1.0 lb. By Air: 0.5 to 0.83 lb. By Air: (CA) 0.5 to 1.0 lb. + one of the following:	Apply when eggs or insects first appear.	21
	Stinkbugs: Use 0.8 lb./A of this product. Cutworms: Use 0.8 lb./A of this product. By Ground: Ground application is recommended.				

Continued

Application Method	Pests Controlled	This Product + Tank Mix Partner	Amount of This Product + Tank Mix Partner Per Acre	Remarks	Days to Harvest
FOLIAR By Ground: 10 to 25 gals./A of spray By Air: 3 to 5 gals./A of spray (minimum 5 gals./A in CA). See remarks for Cutworms.	Aphids Boltworm Cabbage looper Cotton leaf perforator Cutworms Fall armyworm Fleahoppers Pink bollworm (AZ & CA) Plantbugs Stinkbugs Sweetpotato /Silverleaf whitefly Thrips (including Western flower thrips) Tobacco budworm Whiteflies	This product + one of the following: ASANA® XL¹ BAYTHROID® 2 EC CAPTURE® 2 EC KARATE® 1 E (except CA) SCOUT® X-TRA (except CA)	By Ground: 0.5 to 1.0 lb. By Air: 0.5 to 0.83 lb. By Air: (CA) 0.5 to 1.0 lb. + one of the following:	Control is most effective when ground application is made in the evenings and sprays are directed toward the base and lower portion of plant. By Air: 3 to 10 gals./A spray (minimum 5 gals./A in CA) Aerial applications are less effective, but may be used. Apply when eggs or insects first appear or damage is first noted. Repeat application at 3- to 7-day intervals as necessary to maintain control.*	21
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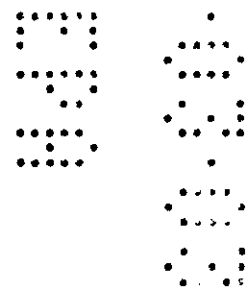
Use Precautions:
*Use the longer spray interval of 7 days if rate applied is more than 0.6 lb./A of this product. Do not apply more than 6 lbs. a.i./A per season. This includes the use of Payload 15 Granular as an in-furrow at planting treatment, all foliar spray, liquid in-furrow application and seed treatment uses.

PEST RESISTANCE-MANAGEMENT IN COTTON

Cotton pest control programs, especially those for control of Silverleaf whitefly populations, should employ a properly designed resistance-management strategy. Such resistance-management strategies include mixture or rotation of alternative classes of chemistry including organophosphates, carbamates, pyrethroids or insect growth regulators. Consult your state or area agricultural extension service for local resistance management strategies and advice on alternative insecticides.

CRANBERRY

Application Method	Pests Controlled	Rates of This Product Per Acre	Remarks	Days to Harvest
FOLIAR By Ground or Sprinkler: Sufficient water to give thorough coverage. By Air: Minimum of 2 gals./A of spray.	Cranberry blossom worm Cranberry cutworm Gypsy moth False armyworm Fireworms Spanworms Sparganothis	1.1 lbs. (17.6 ozs.)	SPRINKLER IRRIGATION APPLICATION TO CRANBERRIES: This product may only be applied through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, travelers, big gun, solid set, or hand move. Do not apply this product through any other type of irrigation system. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop may result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.	80
Use Precautions: Note: Limit to one application per growing season. Do not apply more than 1.1 lbs./A (1 lb. a.i.) per season. Do not apply from start of bloom until all berries set. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the label-prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. Do not apply when wind speed favors drift beyond the area intended for treatment. Solid Set System: Apply specified dosage for the entire length of the irrigation period or for a 30 to 60 minute period at the end of a regular irrigation set or as a 30 to 60 minute injection as a separate application not associated with a regular irrigation. Allow time for all lines to flush the pesticide through all nozzles before turning off irrigation water. To ensure the lines are flushed and free of remaining pesticide, a dye indicator may be injected into the lines to mark the end of the application period. See NOTE. Center Pivot System: Inject the specified dosage per acre continuously for one complete revolution of the system. See NOTE. NOTE: Constant agitation must be maintained in the chemical supply tank during the entire period of insecticide application. Inject the product with a positive displacement pump into the main line ahead of a right turn to ensure adequate mixing. Application of more than label-recommended quantities of irrigation water per acre may result in decreased product performance by removing the chemical from the zone of effectiveness.				



HEAD LETTUCE - Crisphead Type Only

Application Method	Pests Controlled	Rates of This Product Per Acre	Remarks	Days to Harvest
FOLIAR By Ground: 10 to 60 gals./A of spray broadcast By Air: Minimum of 5 gals./A of spray	Aster leafhoppers Green peach aphid	0.5 to 1.1 lbs. (8 to 17.6 ozs.)	Repeat application at 3- to 7-day intervals as necessary to maintain control.* Spring, Summer and early Fall crops in all areas, Winter crops in FL and TX, late Fall crops in AZ and Winter crops in AZ and CA.	21
	Amyworms (excluding Beet amyworm) Cabbage looper	1.1 lbs. (17.6 ozs.)		

Use Precautions:
 *Use the longer spray interval if rate applied is more than 0.6 lb./A of this product. Do not apply more than 2.2 lbs./A (2 lbs. a.i.) per season. Do not feed trimmings to livestock or allow animals to graze on treated areas. AZ & CA, Desert Areas: Do not apply after first head begins to form in crops which germinate from mid-September through November.

MINT (Peppermint and Spearmint)

Application Method	Pests Controlled	Rates of This Product Per Acre	Remarks	Days to Harvest
FOLIAR By Ground: 20 to 100 gals./A of spray By Air: 5 to 10 gals./A of spray	Alfalfa looper Aphids Cutworms	1.1 lbs. (17.6 ozs.)	Apply when eggs or insects first appear. Make one repeat application after 7 days, if necessary, to maintain control.*	14
	Strawberry root weevil (adult) Black vine weevil (adult)		Strawberry root and Black vine weevil. For control, apply in water in a minimum of 40 gals. of spray per acre by ground. Good spray coverage and canopy spray penetration is critical for control. Increase spray volume and pressure with tall or dense mint canopy. Apply after adult emergence is complete but prior to egg laying. Apply at dusk or during the night on a warm still evening. Two applications 10-14 days apart may be necessary to reduce heavy infestations.*	

Use Precautions For All Application Methods:
 *Do not apply more than 2.2 lbs./A (2 lbs. a.i.) per season. Do not graze treated areas.

NON-CROP AREAS (Field Borders, Fencerows, Roadsides, Ditchbanks, Borrow Pits)

Application Method	Pests Controlled	Rates of This Product Per Acre	Remarks
FOLIAR By Ground: 10 to 20 gals./A of spray By Air: 1 to 5 gals./A of spray (minimum of 5 gals./A in CA)	Grasshoppers	0.25 lb. (4 ozs.)	For early to mid-season application. Use the higher volumes when spraying dense foliage. An approved drift retardant may be added to aid in controlling drift and reducing evaporation of aerial sprays.

Use Precaution:
 Do not graze or feed vegetation cut from treated areas.

NON-CROP AREAS (Wasteland)

Application Method	Pests Controlled	Rates of This Product Per Acre	Remarks
FOLIAR By Ground: 10 to 20 gals./A of spray By Air: 0.5 gal./A of spray (minimum of 5 gals./A in CA)	Black grass bugs Grasshoppers Mormon crickets	1.8 to 2.2 ozs.	Use the higher volumes when spraying dense foliage. An approved drift retardant may be added to aid in controlling drift and reducing evaporation of aerial sprays.

Use Precautions:
 Do not make more than one application per season. Do not graze or feed vegetation cut from treated areas. Do not allow animals to graze on treated areas.

PEANUTS

Application Method	Pests Controlled	Rates of This Product Per Acre	Remarks	Days to Harvest
FOLIAR By Ground: 10 to 50 gals./A of spray By Air: 5 to 10 gals./A of spray	Grasshoppers	0.25 to 0.5 lb. (4 to 8 ozs.)	Apply when eggs or insects first appear. Repeat application at 3- to 7-day intervals as necessary to maintain control.* This product can be tank mixed with registered at- or pre-emergence Peanut herbicides, provided those products do not prohibit tank mixes, provided the most restrictive of label limitations are observed, and provided no label dosage rates are exceeded.	14 (of digging)
	Thrips	0.4 to 0.8 lb. (6.4 to 12.8 ozs.)	To determine physical compatibility, pour the recommended proportions of each chemical with the same proportion of water as will be present in the chemical supply tank into a suitable container, mix thoroughly and allow to stand for five minutes. If the combination remains mixed, or can be remixed readily, the mixture is considered physically compatible. When mixing wettable powder or dry flowable formulations, add and disperse these first, then add liquid pesticides. Conduct another compatibility test at concentrations which will be present in the irrigation lines. If there is any separation, which cannot be remixed readily, Manufacturer recommends that the combination not be used.	
	Corn earworm Fall armyworm Leafhoppers Loopers Velvetbean caterpillar	0.8 to 1.1 lbs. (12.8 to 17.6 ozs.)		

Continued

PEANUTS (Con't.)

Application Method	Pests Controlled	Rates of This Product Per Acre	Remarks	Days to Harvest
			Combinations should be kept agitated and should be applied immediately. Do not allow combinations to set for prolonged periods in the chemical supply tank or irrigation lines.	
Use Precautions: Do not feed treated forage or hay to livestock. Do not allow animals to graze on treated areas. *Use the longer spray interval of 7 days if rate applied is more than 0.8 lb./A of this product. Do not apply more than 4.4 lbs./A (4.0 lbs. a.i.) per crop cycle. This includes the use of acephate on Peanuts as a foliar spray in addition to the Peanut planterbox seed treatment use.				

PEPPERS (Bell)

Application Method	Pests Controlled	Rates of This Product Per Acre	Remarks	Days to Harvest
FOLIAR By Ground: 25 to 150 gals./A of spray By Air: Minimum of 3 gals./A of spray (minimum of 5 gals./A in CA)	Grasshoppers	0.25 to 0.5 lb. (4 to 8 ozs.)	Apply when eggs or insects first appear.	7
	Cabbage looper Green peach aphid Tobacco hornworm	0.5 to 1.1 lbs. (8 to 17.8 lbs.)	Repeat at 3- to 7-day intervals as necessary to maintain insect-pest populations below economically damaging numbers.*	
	European corn borer	0.8 to 1.1 lbs. (12.8 to 17.8 ozs.)		
Use Precautions: *Use the longer spray interval of 7 days if rate applied is more than 0.6 lb./A of this product. Do not apply more than 2.2 lbs./A (2 lbs. a.i.) per season.				

PEPPERS (Non-Bell)

For Use in Midwestern, Eastern States And Puerto Rico Only.

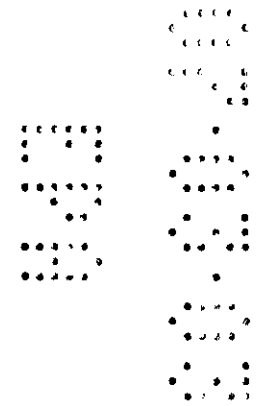
Application Method	Pests Controlled	Rates of This Product Per Acre	Remarks	Days to Harvest
FOLIAR By Ground: 40 to 150 gals./A of spray	Aphids	0.5 lb. (8 ozs.)	Repeat at 3-day spray intervals as necessary.*	7
Use Precaution: *Do not apply more than 1.1 lbs./A (1 lbs. a.i.) per season.				

TOBACCO

Application Method	Pests Controlled	Rates of This Product Per Acre	Remarks	Days to Harvest
FLOATBED* FOLIAGE: Apply at the equivalent of 1 table-spoon in 3 gals. of water per every 1,000 sq. ft. of bed.	Cutworms Flea beetles Green peach aphid Tobacco aphids	0.8 lb. (12.8 ozs.)	Apply evenly to ensure thorough coverage. NOTE: Floatbed water should be disposed of in the transplanted field as planter water or foliar spray.	-
PLANT BED* FOLIAGE: Apply at the equivalent of 1 table-spoon in 1 gal. of water per every 1,000 sq. ft. of bed.	Cutworms Flea beetles Green peach aphid Tobacco aphids	0.8 lb. (12.8 ozs.)	Apply evenly to ensure thorough coverage.	-
Continued				

TOBACCO (Continued)

Application Method	Pests Controlled	Rates of This Product Per Acre	Remarks	Days to Harvest
TRANS-PLANT* Apply in a minimum of 100 gals. of transplant water per acre.	Cutworms Flea beetles Green peach aphid Potato tuberworms Tobacco aphids Tobacco thrips	0.8 lb. (12.8 ozs.)	Provides control for approximately 3 to 4 weeks after transplanting. For control late in the season, apply foliar sprays of this product.	-
Use Precaution: Do not apply more than 0.8 lb. of this product per acre as a transplant-water application as some phytotoxicity may occur.				
FOLIAR* By Ground: 10 to 50 gals./A of spray By Air: Minimum of 3 gals. of spray	Grasshoppers Flea beetles Green peach aphid Hornworms Tobacco thrips Stinkbugs Tobacco aphid Vegetable weevils Budworms Cabbage looper Cutworms Japanese beetle	0.25 to 0.5 lb. (4 to 8 ozs.) 0.5 lb. (8 ozs.) 0.5 to 0.8 lb. (8 to 12.8 ozs.) 0.8 lb. (12.8 ozs.)	Repeat on a 3- to 7-day spray schedule or as necessary.*	3
SOIL MOUND TREATMENT*				
DRENCH METHOD	Ants (including imported fire ants and Harvester ants)	0.8 oz/5 gals.	Apply 1 gal. of mix to each mound area by sprinkling the mound until it is wet and treat a four (4) foot diameter circle around the mound.	3
Use Precautions: Treat a maximum of 13 mounds per acre. Do not treat more than once per season. Apply in the early morning or late afternoon, when ants are most active, for best results. Application made under prolonged hot and dry conditions may be ineffective due to the location of the ants deep within the nest.				
General Use Precautions: *Use the longer spray interval of 7 days if rate applied is more than 0.6 lb./A of this product. Do not apply more than 4.4 lbs./A (4 lbs. a.i.) per season. This includes the use of Acephate in transplant water, plant bed, soil, float bed (greenhouse), and foliar applications.				



TREES AND SHRUBS

Plants	Insects	Amount of This Product Per 100 Gals.**	Time of Application	Recommended Application
Trees and Shrubs (except Flowering Crabapple, see below.)	Aphids Bagworms Birch Leafminer Tent caterpillars* Lace bugs Leafrollers	0.28 lb. (4.5 ozs.)	As insects begin to appear.	Apply the specified amount of this product in 100 gals. of water with a hydraulic sprayer. The addition of a suitable sticker improves control of Gypsy moth larvae. *Mist blower application. Adjust rates to 1.33 lbs. per 100 gals. of water for Gypsy moth control and 1.0 lb. per 100 gals. of water for Tent Caterpillar control.
	Douglas Fir Tussock Moth larvae Gypsy moth larvae* Webworms	0.5 lb. (8 ozs.)	As insects begin to appear.	Do not apply to Huckleberry, Balm of Gilead, Cottonwood, Lombardy poplar and <i>Viburnum suspensum</i> . Nursery crops. Before treating large plantings, spray only a few plants and observe two weeks for phytotoxicity.
	Scales (Crawlers)	0.5 lb. (8 ozs.)	As crawlers begin to appear. Repeat applications, at a 2 week or more interval, may be necessary where there is continuous crawler production.	
	Ponderosa Pine Needle miner	0.5 lb. (0.8 oz.)	Time of application is important. Consult your Farm Advisor or County Extension Agent.	Apply the specified amount of this product in 100 gals. of water with a hydraulic sprayer as a full coverage spray.
	Grass-hoppers	0.5 lb. (0.8 oz.)	As grasshoppers begin to appear.	
	California oakworm Cankerworms (Spring and Fall)	0.28 to 0.5 lb. (4.5 to 8 ozs.)	As insects begin to appear. Use the higher amount when the larger larvae are present.	Apply the specified amount of this product in 100 gals. of water with a hydraulic sprayer.
	Nantucket pine tip Moth larvae	0.8 lb. (12.8 ozs.)	Time of application is important. Consult your Farm Advisor or County Extension Agent. Repeat applications will be required for subsequent generations.	
	Root weevil adults	0.8 lb. (12.8 ozs.)	Apply when first feeding damage occurs. Repeat applications, at four week intervals until the first heavy frost, may be necessary for complete foliage protection.	Apply the specified amount of this product in 100 gals. of water with a hydraulic sprayer as a full coverage spray.
	Box elder bugs Sawflies Budworms Leafhoppers	0.8 lb. (12.8 ozs.)	As insects begin to appear.	
	Japanese beetle	1.1 lbs. (17.6 ozs.)	As Japanese beetles begin to appear. Repeat applications, at 2 week intervals, may be necessary.	
	Eim leaf beetle (larvae)	1.1 lbs. (17.6 ozs.)	As larvae begin to appear. Acephate will not prevent Eim leaf beetle eggs from hatching.	

Continued

TREES AND SHRUBS (Continued)

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Plants	Insects	Amount of This Product Per 100 Gals.**	Time of Application	Recommended Application
Douglas fir (Christmas trees)	Douglas fir needle midge	0.5 lb. (8 ozs.) (0.5 lb. per acre)	Application should be made no more than 2 weeks prior to bud burst. For additional pest management information, consult your County Extension Service.	Apply the specified amount of this product in not less than 2 gals. of spray per acre by air or in 100 gals. of spray per acre by ground.
Flowering crab-apples	Aphids Tent caterpillars Leafrollers	0.28 lb. (4.5 ozs.)	As insects begin to appear.	Apply the specified amount of this product in 100 gals. of water with a hydraulic sprayer. Do not apply more often than 3 times in a growing season at a 4-week interval. Caution: Phytotoxicity has occurred on the following Crabapple varieties: Hopa, Ichonoski, Malusfloribunda, Pink perfection, Red wine and Snow cloud.
Crape myrtle	Aphids	2 to 3 level tbsps. (0.5 to 0.8 oz.) per 1 tbsp. of water	As aphids begin to appear.	Make a paint-on slurry by mixing the specified amount of this product with 1 tablespoon of water. Remove the loose bark from the trunk areas to be treated. Completely paint a band around each trunk to a width twice its diameter. Application should be made to trunks within a zone 6 to 12 inches above the ground and below the point where branching begins. For multi-trunk plants be certain to treat all trunks. For either single or multi-trunk plants, application should be made as low as possible within the recommended treatment zone.

**Refer to "Small Volume Spray Equipment" table for equivalent amount of this product in 1 and 20 gallons of water.

TURFGRASS (Golf Course and Sod Farm)

Use on turfgrass is limited to sod farms and golf courses except when applying by mound or spot treatment for fire ant and harvester ant control. Aerial application to turf is prohibited. Do not allow livestock to graze treated areas. Do not feed treated grass to livestock. Do not apply this product 3 days before harvesting sod.

Plants	Insects	Amount of This Product Per 1,000 Sq. Ft.	Time of Application	Recommended Application
Golf course and Sod farm Turfgrass	Fall armyworm Yellow striped armyworm Southern armyworm	0.4 to 1 oz. (1.1 to 2.75 lbs. per acre)	As insects appear. Repeat application at 2 week intervals may be necessary.	Apply the specified amount of this product per 1,000 sq. ft. Use a minimum of 5 gals. of water per 1,000 sq. ft. to obtain good coverage.
	Cutworms	For Sod Farm: 1 to 1.2 ozs. (2.75 to 3.33 lbs. per acre) For Golf Course: 1 to 1.8 ozs. (2.75 to 4.44 lbs./A.)		

Continued

TURFGRASS (Golf Course and Sod Farm)

Plants	Insects	Amount of This Product Per 1,000 Sq. Ft.	Time of Application	Recommended Application
(Cont) Golf course and Sod farm Turfgrass	Chinch bugs	For Sod Farm: 1 to 1.2 ozs. (2.75 to 3.33 lbs. per acre) For Golf Course: 1 to 1.6 ozs. (2.75 to 4.44 lbs./A.	Apply as needed for adult population knockdown (10 to 14 days).	Apply the specified amount of this product per 1,000 sq. ft. Use 1 to 15 gals. of water per 1,000 sq. ft. to obtain good coverage.
	Fleas	For Sod Farm: 1 to 1.2 ozs. (2.75 to 3.33 lbs. per acre) For Golf Course: 1 to 1.6 ozs. (2.75 to 4.44 lbs./A.	Apply as needed for knockdown (7 to 10 days) only of existing adult populations.	
	Sod webworms (<i>Crambus</i> spp.)	0.4 to 0.83 oz. (1.1 to 2.25 lbs. per acre)	As Sod webworms begin to appear. Use the higher amount when quick knockdown is needed or with heavy infestations. Repeat application may be necessary. Do not repeat at more than 1 week intervals.	Apply the specified amount of this product per 1,000 sq. ft. Use 1 to 15 gals. of water per 1,000 sq. ft. to obtain good coverage.
	Leafhoppers	0.83 oz. (2.25 lbs. per acre)	As Leafhoppers begin to appear. Repeat application at 1 week intervals may be necessary.	
	Mole Crickets (except CA) Spittlebug (except CA)	For Sod Farm: 0.83 to 1.2 ozs. (2.25 to 3.33 lbs. per acre) For Golf Course: 0.83 to 1.6 ozs. (2.25 to 4.3 lbs. per acre)	As Mole crickets begin to appear. For knockdown of existing populations, more than one application may be required throughout the growing season. For heavy infestations, use the higher dosage rate.	Apply the specified amount of this product per 1,000 sq. ft. Use 1 to 15 gals. of water per 1,000 sq. ft. to obtain good coverage. Apply during late afternoon or early evening hours and after an irrigation. Do not irrigate after application. The use of a lemon fragrance substance in the spray mix may enhance control by acting as a flushing agent and thus provide increased mole cricket contact with this product. The following lemon-scented products have been shown to be effective flushing agents: Lemon Joy, Lemon Palmolive, and Mighty Myrt Products Manufacture - Base Pure Lemon Fragrance. The use rate for these lemon-scented products is 2 teaspoons per gallon of water for small total mix volumes or 8 fl. ozs. per 50 gals. of water for large total mix volumes.

TURFGRASS (Golf Course and Sod Farm) Con't.

10/12

Plants	Insects	Amount of This Product Per 1,000 Sq. Ft.	Time of Application	Recommended Application
(Con't) Golf course and Sod farm Turfgrass	Greenbug (<i>Schizaphis graminum</i>) Grass-hoppers	0.4 oz. (1.1 lbs. per acre)	Apply when insects or their damage first appears. Repeat as necessary. Application is not to be repeated at more than 1 week intervals.	Apply the specified amount of this product Use 4 gals. of water per 1,000 sq. ft. to obtain good coverage. Do not mow turfgrass for at least 24 hours after application.
	Black turfgrass Ataenius (except CA)	For Sod Farm: 1.2 ozs. (3.33 lbs. per acre) For Golf Course: 1.25 to 1.6 ozs. (3.4 to 4.3 lbs. per acre)	Apply when insects or their damage first appear.	Apply the specified amount of this product per 1,000 sq. ft. Use a minimum of 5 gallons of water per 1,000 square feet. Irrigate lightly after application (not more than one-half inch). Use the higher rate for severe infestations.
Dichondra (Plant site for golf course and sod farm Turfgrass)	Cutworms Flea beetles Southern armyworm Yellow striped armyworm	For Sod Farm: 0.83 to 1.2 ozs. (2.25 to 3.33 lbs. per acre) For Golf Course: 0.83 to 1.6 ozs. (2.25 to 4.3 lbs. per acre)	As insects appear. Repeat at 2-week intervals as necessary.	Apply the specified amount of this product per 1,000 sq. ft. Use a minimum of 15 gals. of water per 1,000 sq. ft. to obtain good coverage.

TURFGRASS (Mound Treatment of Fire Ants)

Plant	Insects	Amount of This Product	Time of Application	Recommended Application
Turfgrass	Imported fire ants and Harvester ants	Mound Treatment-Drench Method: Mix 0.83 oz. in 5 gals. of water. Apply 1 gal. of mix to each mound area by sprinkling the mound until it is wet and treat a four (4) foot diameter circle around the mound.	For best results apply the material in the early morning or late afternoon when the ants are most active. Applications made under prolonged hot and dry conditions may be ineffective due to the location of the ants deep within the nest.	Apply the specified amount of this product as directed. Grass in treated areas may be injured. Do not treat mound more than once per season.

OTHER USES

OUTDOOR AND PERIMETER SPRAY*

Location	Insects	Amount of This Product Per Gal.	Time of Application	Recommended Application
Outdoor and perimeter area.	Wasp	1.3 oz. (0.08 lb.)	Treat early or late in the day, as wasps are generally less active during these times.	Apply specified amount of this product per each gallon of water used. Apply as a spot treatment to the nest, nest entrance and surrounding areas where the wasps alight.
	Ants (including imported fire ants and Harvester ants) Crickets Cock-roaches Earwigs Pillbugs	1.3 ozs. (0.08 lb.)	As insects appear	Apply specified amount of this product per each gallon of water used. Apply to a band of soil 6 to 10 feet adjacent to the structure and to a height of 2 to 3 feet on the foundation where pests may be active or may find entrance. Also apply as a residual spray or with a palm brush to surfaces of buildings, window frames, shutters, entryways, screens, eaves, patios, garages, carports, around garage areas and other areas where these pests congregate.

*Not for use on residential Turfgrass.

OUTDOOR FLORAL CROPS AND GROUND COVERS

Plants	Insects	Amount of This Product Per 100 Gals.*	Time of Application	Recommended Application
Chrysanthemums Daisies Dahlias Easter lily Gladioli Gypsophila Pachysandra Pansy Peony Roses Sedum Statice Strawflower Yarrow Zinnia	Aphids Thrips Lygus	0.5 lb. (8 ozs.)	As insects begin to appear. Repeat applications may be necessary.	Apply the specified amount of this product in 100 gals. of water with a hydraulic sprayer as a full coverage spray. Multiple applications may cause slight tip burn or marginal leaf necrosis on some varieties. Test on a few plants to determine varietal susceptibility.
Roses	Japanese beetles	0.83 lbs. (13.3 ozs.)	As Japanese beetles begin to appear. Repeat applications at 2 week intervals may be necessary.	
Boston ivy		1.1 lbs. (17.6 ozs.)		
*Refer to "Small Volume Spray Equipment" table for equivalent amount of this product in 1 and 20 gallons of water.				

PLANT CROPS (Greenhouse Floral and Foliage)

Plants	Insects	Amount of This Product Per 100 Gals.*	Time of Application	Recommended Application
Roses	Leafrollers	0.5 to 0.8 lb. (8 to 12.8 ozs.)	As Leafrollers begin to appear. Use the higher amount when the large larvae are present.	Apply specified amount of this product in 100 gals. of water with a hydraulic sprayer as a full coverage spray.
Foliage plants Anthuriums Cacti Orchids Poinsettia	Aphids	0.28 lb. (4.5 ozs.)	As Aphids begin to appear.	Apply specified amount of this product in 100 gals. of water with a hydraulic sprayer as a full coverage spray. The addition of a wetting agent may be required on difficult to wet foliage.
	Mealybugs Thrips Whiteflies	0.5 lb. (8 ozs.)	As insects begin to appear. Repeat application, at a 2-week interval, may be necessary for control of Mealybugs and Whiteflies.	Caution: Phytotoxicity has occurred on the following foliage plants: <i>Blechnum gibbum</i> , <i>Cissus antarctica</i> , <i>Ficus triangularis</i> , <i>Filtonia verschaffeltii</i> , <i>Maranta leuconeura kerchoveana</i> , <i>Pachystachya lutea</i> , <i>Plectranthus australis</i> , <i>Polypodium aureus</i> , <i>Polystichum</i> , <i>Pteris ensiformis</i> , <i>Tolmiea menziesii</i> . Before treating large plantings spray only a few plants and observe two weeks for varietal phytotoxicity. Application of this product on Poinsettias after bract formation may result in phytotoxicity on certain varieties.
	Scales (Crawlers)	0.5 lb. (8 ozs.)	As crawlers begin to appear. Repeat applications, at a 2-week or more interval, may be necessary where there is continuous crawler production.	
	Sweet-potato whiteflies (except CA)	0.28 lb. (4.5 ozs.) plus TAME® 2.4 EC Spray 10.7 fl. ozs. (0.2 lb. a.i.)	Apply when insects first appear. If a population is well established, make one application of the tank mix and follow 5 to 7 days later with TAME alone at 16 fl. ozs./100 gals. See TAME label for instructions.	For Sweetpotato whitefly control, apply the specified amount of this product plus TAME 2.4 EC Spray as a tank mix at a volume necessary to obtain good coverage. Follow the TAME label for specific instructions on the alternation of TAME plus this product and TAME alone and the rotation instructions to avoid potential resistance.
*Refer to "Small Volume Spray Equipment" table for equivalent amount of this product in 1 and 20 gallons of water.				

(Continued)

PLANT CROPS (Greenhouse Floral and Foliage) Con't.

Plants	Insects	Amount of This Product Per 100 Gals.*	Time of Application	Recommended Application
Roses Camellions Chrysanthemums	Aphids Thrips	0.5 lb. (8 ozs.)	As Aphids begin to appear. As Thrips begin to appear or at the tight flower bud stage. Repeat applications may be necessary.	Apply the specified amount of this product in 100 gals. of water with a hydraulic sprayer as a full coverage spray. Do not apply more often than once every 28 days to Camellions and Chrysanthemums. Caution: Phytotoxicity has occurred on the following Chrysanthemum varieties: Albatross, Bonnie Jean, Dixie, Garland, Gem, Iceberg, Pride, Showoff, Statesman, Tally Ho, Westward Ho, and Wild Honey. Before treating large Chrysanthemum plantings, spray only a few plants and observe two weeks for varietal phytotoxicity. Do not apply to Chrysanthemums and Roses with open flowers.
*Refer to "Small Volume Spray Equipment" table for equivalent amount of this product in 1 and 20 gallons of water.				

SMALL VOLUME SPRAY EQUIPMENT

Preparation of This Product Spray Mix Using a Small Fluid Ounce Measuring Cup		
Label Recommendation of This Product in 100 Gals. Water	Equivalent of This Product in 20 Gals. Water	Equivalent of This Product in 1 Gal. Water (Tsp./Gal.)
0.28 lb.	0.9 oz.	0.4 tsp.
0.5 lb.	1.8 ozs.	0.83 tsp.
0.8 lb.	2.5 ozs.	1.25 tsps.
1.1 lbs.	3.5 ozs.	1.7 tsps.

SPECIALTY USES — NON-CROP AREAS

Crop	Insects	Amount of This Product Per Acre	Further Use Instructions
Non-Crop Areas	Ants (including imported fire ants and Harvester ants)	Mound Treatment - Drench Method: Mix 0.83 oz. in 5 gals. of water. Apply 1 gal. of mix to each mound area by sprinkling the mound until it is wet and treat a four (4) foot diameter circle around the mound.	For best results apply the material in the early morning or late afternoon when the ants are most active. Applications made under prolonged hot and dry conditions may be ineffective due to the location of the ants deep within the nest. Grass in treated area may be injured. Do not treat mound more than once per season.

SPECIALTY USES — CONTAINER GROWN NURSERY STOCK

Plants	Insects	Amount of This Product Per 100 Gals.*	Time of Application	Recommended Application
Container grown nursery stock (Arborvitae Azalea Camellia Rhododendron Roses Viburnum Yew)	Black vine weevil Strawberry root weevil	0.8 lb. (12.8 ozs.)	Application should be made by mid-September for greenhouse stock and by mid-October for outdoor stock. Consult your local county extension agent for information on the identification and control of Root weevils on ornamentals.	Apply the specified amount of this product per 100 gals. of solution so as to thoroughly drench the root system.
	Ants (including imported fire ants and Harvester ants)	0.8 lb. (12.8 ozs.)	Apply as needed to control the pest.	

*Refer to "Small Volume Spray Equipment" table for equivalent amount of this product in 1 and 20 gallons of water.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage, disposal or cleaning of equipment. Open dumping is prohibited.
PESTICIDE STORAGE: Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Store in cool, dry place. Protect from excessive heat. Do not contaminate food or foodstuffs. Do not store or transport near feed or food. For help with any spill, leak, fire or exposure involving this material, call day or night 1-800-892-0099.
PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.
WATER-SOLUBLE PAKS: Carefully open outer bag. Never open the water-soluble pouch.
CONTAINER DISPOSAL: Do not reuse the outer bag. Dispose of outer bag in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

WARRANTY—CONDITIONS OF SALE

OUR RECOMMENDATIONS FOR USE of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the Seller. Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith.
 In no case shall the Manufacturer or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with directions given herewith. The foregoing is a condition of sale by the Seller and is accepted as such by the Buyer.

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- ASANA® is a registered trademark of E.I. du Pont de Nemours & Co., Inc. for esfenvalerate insecticide.
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