

Ticket

PM 14

59637-26

Pg 187

COPY A

GREENHOUSE APPLICATION

(EXCEPT CA)

Crop	Insects	Amount ORTHENE 75 S Per Acre	Further Use Instructions
Tobacco	Cutworm Flea Beetle Green Peach Aphid Tobacco Aphid	1 lb.	NOTE: Apply to foliage at the equivalent of 1 tablespoon in 3 gals. water per every 1,000 sq. ft. of bed. Apply evenly to insure thorough coverage.

COPY B

Tobacco Thrips



ORTHENE[®]

75 S

Soluble Powder

(INSECTICIDE)

Action Ingredient: Acephate 10, 3-Di-ethyl- phosphorothioate 75%
Inert Ingredients: 25%
ORTHENE[®] Acephate
U.S. Pat. No. 3,914,417

ACCEPTED
JAN 30 1992
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under 59639-26
KEEP OFF OF REACH OF CHILDREN
CAUTION
SEE BELOW FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

Manufactured for
Valent U.S.A. Corporation © 1991
Walnut Creek CA 94596-0025
R Form 254-1 Made in U.S.A.
EPA Reg. No. 59639-26-AA

ORTHENE KILLS FIRE ANTS

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & 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.

STATEMENT OF PRACTICAL TREATMENT

If swallowed drink 1 or 2 glasses of water (or milk) and induce vomiting by touching the back of the throat with finger. If possible contact a physician, Poison Control Center, or emergency center before inducing vomiting. Do not induce vomiting or give anything by mouth to an unconscious person. Take person and product container to the nearest emergency treatment center. In case of eye contact, wash eyes with fresh water for 15 minutes. If irritation continues, see a doctor. For skin contact, wash skin with plenty of soap and water. If inhaled, remove person from exposure area.

Notes to Physicians: Emergency Information—call 1-800-457-2072, or 1-800-424-9300. Acephate is a cholinesterase inhibitor. If signs of cholinesterase inhibition appear, atropine is antidotal. 2 PAM may also be used in conjunction with atropine but should not be used alone.

WORKER SAFETY

USE ONLY WHEN WEARING THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT DURING MIXING/LOADING, APPLICATION, REPAIR, AND CLEANING OF MIXING, LOADING, AND APPLICATION EQUIPMENT, AND DISPOSAL OF THE PESTICIDE, AND (areas for which a reentry interval has been established) EARLY REENTRY INTO TREATED AREAS: chemical-resistant gloves, long sleeved shirt, long legged pants, shoes and socks. If overhead exposure is likely, such as during flagging, wear a hood or well-trimmed hair. **WORK SAFETY:** Always wash hands, face and arms with soap and water before smoking, eating, drinking or toileting. **AFTER WORK:** Before removing gloves, wash them with soap and water. Take off all work clothes and shoes. Shower using soap and water. Wear only clean clothes when leaving job. Do not wear contaminated clothing. Personal and protective clothing worn during work must be laundered separately from household articles. Store protective clothing separately from personal clothing. Clean or launder protective clothing after each use.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to birds. Applications may adversely affect birds in rangeland treatment areas. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Cover or soil-incorporate spills.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the 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.

REENTRY STATEMENT

Keep all unprotected persons out of operating areas or vicinity where there may be drift.

For use on agricultural crops, commercially grown ornamentals, commercial sod farms, and in greenhouses, reentry into treated areas is prohibited for 24 hours after the end of application unless the protective clothing specified elsewhere in this label is worn for other uses, including golf courses and other non-agricultural areas. Do not enter treated areas without protective clothing until sprays have dried.

Certain states may require more restrictive reentry intervals, consult your State Department of Agriculture for further information.

Written or oral warnings regarding use of protective clothing and accidental exposure must be given to workers who are expected to be in treated areas or in areas about to be treated.

DIRECTIONS

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.

Table of Equivalents

Amount of ORTHENE 75 S Soluble Powder	1 1/4 lbs	1 lb	3/4 lb	4 oz	2 oz
Amount Active Contained	1 lb	3/4 lb	1/2 lb	1/4 lb	1/8 lb

COTTON

Crop	Insects	Amount ORTHENE 75 S Per Acre	Further Use Instructions	Days to Harvest
Cotton	Thrips	2 oz to 4 oz	Apply in water at 3 to 10 gals spray per acre by air (minimum 3 gals/acre in CA, AZ) or 10 to 25 gals spray per acre by ground.	21
	Planthoppers (lygus)	1/4 to 1 1/2 lbs (CA, AZ)		
	Flea hopper	1/2 lb		
	Cotton Aphid	4 to 1 1/2 lbs	Apply when eggs or insects first appear. Repeat as necessary to maintain control.	
	Armyworms	1 1/2 lbs	Do not feed on trash to livestock or allow animals to graze on treated areas.	
	Cabbage looper			
	Budworm	4 to 1 1/2 lbs (Fast of Rocks)		
	Budworm	1 1/2 lbs (CA, AZ)		
	Adults			
	Larvae			
Cotton	Egg/DEMONATCH		Budworm and Tobacco Budworm: Early season light infestation use 1/2 lb per acre. Mid and late season moderate to severe infestations use 1 to 1 1/2 lbs per acre. Apply when eggs appear and repeat at 3 to 7 day spray interval.	
	Stinkbugs (CA, AZ)	1 lb		
	Pink Bollworm (CA, AZ)	1 1/2 lbs		
			Adult/Larvae: Adults are not treated. Larvae are treated by direct contact with spray particles during application. Wash lot is must before re-entry when application is made later.	

TOBACCO TRANSPLANT WATER APPLICATION (EXCEPT CA)

Crop	Insects	Amount ORTHENE 75 S Per Acre	Further Use Instructions
Tobacco	Flea Beetle Green Peach Aphid Tobacco Aphid Cutworm	1 lb	Provides control of early season flea beetle, green peach aphids, tobacco aphids, and cutworms for approximately 3 to 4 weeks after transplanting. For later season control, these insects, apply a foliar spray of ORTHENE 75 S Soluble Powder. Apply in a minimum of 100 gals of transplant water per acre. Do not apply more than 1 lb. ORTHENE 75 Soluble Powder per acre as a transplant water application as some phytotoxicity may occur.

TOBACCO FOLIAR APPLICATION (EXCEPT CA)

Crop	Insects	Amount ORTHENE 75 S Per Acre	Further Use Instructions	Days to Harvest
Tobacco (Flea-Cured, Air-Cured, Dark Fire Cured)	Greenhoppers	1/2 to 1 lb	Apply in 15 to 30 gals. water per acre with ground equipment or a minimum of 3 gals. per acre by air.	3
	Green Peach Aphid	1/2 lb		
	Flea Beetle			
	Homworm			
Tobacco	Aphid	1/2 to 1 lb	Apply on a 7 day schedule or as needed.	
	Budworm	1 lb	Do not re-enter sprayed areas until the spray deposit has dried.	

TOBACCO PLANT BED APPLICATION (EXCEPT CA)

Crop	Insects	Amount ORTHENE 75 S Per Acre	Further Use Instructions
Tobacco Bed Treatment	Flea Beetle Green Peach Aphid Tobacco Aphid Cutworm	1 lb	Apply to foliage at the equivalent of 1 tablespoon in 1 gal. of water per every 1,000 sq. ft. of bed. Apply evenly to ensure thorough coverage.

TOBACCO SOIL APPLICATION (EXCEPT CA)

Crop	Insects	Amount ORTHENE 75 S	Further Use Instructions	Days to Harvest
Tobacco	Imported Fire Ants	Mound Treatment: Dry Method: Evenly distribute 1 to 2 teaspoons over the mound. Drench Method: Mix 1 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. Treat maximum of 13 mounds per acre. Do not treat more than once per season.	3

FRUIT CROPS

Crop	Insects	Amount ORTHENE 75 S Per Acre	Further Use Instructions	Days to Harvest
Cranberries	Cranberry Blossom Worm Gypsy Moth False Armyworm Fireworms Sparrows Sparganths	1 1/3 lbs	Apply in water by air, ground or with sprinkler. Use a minimum of 2 gals. spray per acre by air. Use sufficient water to give thorough coverage with ground or sprinkler equipment. Note: Limit to one application per growing season. Do not apply from start of bloom until all berries set.	90

SPRINKLER IRRIGATION APPLICATION TO CRANBERRIES:

This product may only be applied through sprinkler irrigation systems including center pivot, lateral move, and side (wheel) roll, travelers, big gun, solid set, or hand move. Do not apply this product through any other type of irrigation system.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

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 supplies are in place. A person knowledgeable of the chemigation system and responsible for its operation shall shut the system down if 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 piping 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 safety-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 Systems: 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 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 Systems: 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 angle turn to insure 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.

VEGETABLE CROPS

Crops	Insects	Amount ORTHENE 75 S Per Acre	Further Use Instructions	Days to Harvest
Beans and	Flea hoppers	1 1/2 to 2 1/2 lb	Apply in water at a minimum of 1	14 (spray only)

	Insects	Amount DITHANE J5 S Per 100 Gals.	Time of Application	Recommended Application
Alder Bark Beetle Apple Tree Bark Borer Black Oak Bark Borer Blue Stain Cane Borers Casebearer Cherry Bark Borer Citrus Red Scale Colorado Spruce Beetle Curculionids Dogwood Bark Borer European Elm Sawfly Fire Ants Grapevine Moths Hickory Bark Borer Japanese Weevil Larch Needle Miner Longhorn Beetles Lygids Maple Leaf Miner Oak Bark Borer Pine Bark Beetle Pine Tip Moths Red Hips Sawflies Shag Bark Borer Silver Birch Bark Borer Spruce Budworm Tent Caterpillars White Pine Weevil Willow Bark Borer Yucca Stem Borer	Black Vine Weevil Strawberry Root Weevil	1 lb. (16 oz.)	Application should be made by mid-September for green-house 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 specific amount of DITHANE J5 S at the rate per KG of color as stated in highly dried the root system
	Imported Fire Ants	1 lb. (16 oz.)	Apply as needed to control the pest.	

Preparation of GUTTENE Spray Mix using a 15 cc. Measuring Cup

Label Recommendation ORTHENE in 100 Gals. Water	Equivalent ORTHENE in 20 Gals. Water*	Equivalent ORTHENE in 1 Gal. Water (oz./Gal.)
1/3 lb	2-1/2 oz	1
2/3 lb	5 oz	2
1 lb	7-1/2 oz	3
1-1/3 lbs	10 oz	4

*Use on 16 oz. measuring cup

Plants	Insects	Amount ORTHENE 75 S per 100 Gals	Time of Application	Recommended Application
Trees and Shrubs except Flowering Crab apple, see below)	Aphids Bagworms Buck Leafminer tent Caterpillar Lace Bugs Leafrollers	1/3 lb (5 3/4 oz)	As the insects begin to appear	Apply the specified amount of ORTHENE 75 S Soluble Powder in 100 gals. water with a hydraulic sprayer. The addition of a suitable sticker improves control of Gypsy Moth larvae
	Douglas Fir tussock Moth (larvae) Gypsy Moth Larvae Webworms	2 3/4 lb (18 3/4 oz)	As the insects begin to appear	*Airst blower application. Adjust rates to 1 1/3 lbs. per 100 gals. water for Gypsy Moth control and 1 1/2 lb. per 100 gals. water for tent Caterpillar control
	Scales (Crawlers)	2 3/4 lb (18 3/4 oz)	As crawlers begin to appear. Repeat applications at a 2 week or more interval may be necessary where there is continuous crawler production	Do not apply to Huckleberry, Balm of Gilead, Cottonwood, Lombardy Poplar and <i>Viburnum suspensum</i>
Trees and Shrubs	Ponderosa Pine Needle Miner	2 3/4 lb (18 3/4 oz)	Time of application is important. Consult your Farm Advisor or County Extension Agent	Nursery crops. Before treat- ing, large plantings, spray only a few plants and observe two weeks for phytoxicity
	Grasshoppers	2 3/4 lb (18 3/4 oz)	As the grasshoppers begin to appear	Apply the specified amount of ORTHENE 75 S Soluble Powder in 100 gals. water with a hydraulic sprayer as a full coverage spray

Plants	Insects	Amount ORTHENE 75 S Per 100 Gals	Time of Application	Recommended Application
Trees and Shrubs	California Oakworm Caterpillars (Spring and Fall)	1/3 to 2/3 lb (5.3 to 10.5 oz)	As the insects begin to appear. Use the higher amount when the larger larvae are present.	Apply the specified amount of ORTHENE 75 S Soluble Powder in 100 gals. water with a hydraulic sprayer.
	Namocket Pine Tip Moist Larvae	1 lb (16 oz)	Time of application is important. Consult your Farm Advisor or County Extension Agent. Repeat applications will be required for subse- quent generations.	
	Root Weevil Adults	1 lb (16 oz)	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 ORTHENE 75 S Soluble Powder in 100 gals. water with a hydraulic sprayer as a full coverage spray.
	Box Elder Bugs San Jose Budworms Leafhoppers	1 lb (16 oz)	As the insects begin to appear.	
	Japanese Beetle	1 1/3 lbs (21.3 oz)	As the Japanese Beetles begin to appear. Repeat applications, at 2 week intervals, may be necessary.	
	Elm Leaf Beetle (larvae)	1 1/4 lb (21.3 oz)	As the larvae begin to appear. ORTHENE will not prevent Elm Leaf Beetle eggs from hatching.	
Shrubs for Christmas Trees	Boumby for Horned Midge	2/3 lb (10.5 oz)	Application should be made no more than 2 weeks prior to bud burst. For additional pest management in- formation, consult your County Extension Service.	Apply the specified amount of ORTHENE 75 S Soluble Powder in not less than 2 gals. of spray per acre by air or in 10 gals. of spray per acre by ground.
Flowering Shrubs	Arboreal Caterpillars Leafrollers	1 lb (16 oz)	As the insects begin to appear.	Apply the specified amount of ORTHENE 75 S Soluble Powder in 100 gals. water with a hydraulic sprayer.

Do not apply more often than 3
times in a growing season at a 4

Plant	Insects	Amount ORTHENE 75 S Per 100 Gals.	Time of Application	Recommended Application
Roses	Lepidoptera	.5 to 1 lb. (8.5 to 16 oz.)	As lepidoptera begin to appear. Use the higher amount when the large larvae are present.	Apply the specified amount of ORTHENE 75 S Soluble Powder in 100 gals. water with a hydraulic sprayer as a full coverage spray.
Foliage Plants Orchids Anthurums Cacti Poinsettias	Aphids	.5 lb. (5.3 oz.)	As aphids begin to appear.	Apply the specified amount of ORTHENE 75 S Soluble Powder in 100 gals. water with a hydraulic sprayer as a full coverage spray.
	Mothbugs Thrips Whiteflies	.5 lb. (8.5 oz.)	As the insects begin to appear. A repeat application, at a 2 week interval, may be necessary for control of mothbugs and whiteflies.	The addition of a wetting agent may be required on difficult to wet foliage.
	Scales (Crawlers)	.5 lb. (8.5 oz.)	As crawlers begin to appear. Repeat applications, at a 2 week or more interval, may be necessary where there is continuous crawler production.	Cautions: Phytotoxicity has occurred on the following foliage plants: Blotchum album, Cleome antirrhina, Ficus triangularis, Pisonia verschoefii, Mirania laetissima hardyanae, Polydora lutea, Platanus acerifolia, Pelargonium graveolens, Polystichum, Psidium cattleianum, Tabernaemontana, Tuberaria officinalis, Verbena officinalis. Before treating large plantings apply only a few plants and observe 2 weeks for vertical phytotoxicity. Application of ORTHENE 75 S Soluble Powder on Poinsettias after frost formation may result in phytotoxicity on certain varieties.
	Sweet Potato Whitefly (except CA and NY)	½ lb. (5.3 oz.) plus TAME 2.4 EC Spray 10% N. oz. (0.2 lb. sz)	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 N. oz./100 gals See TAME label for instructions	For sweet potato whitefly control, apply the specified amounts of ORTHENE 75 S Soluble Powder 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 ORTHENE and TAME alone and the rotation instructions to avoid potential resistance.
Roses Carnations Chrysanthemums	Aphids Thrips	½ lb. (8.5 oz.)	As aphids begin to appear. As thrips begin to appear or at the light flower bud stage. Repeat applications may be necessary.	Apply the specified amount of ORTHENE 75 S Soluble Powder in 100 gals. water with a hydraulic sprayer as a full coverage spray. Do not apply more often than once every 20 days to Carnations and Chrysanthemums.
				Cautions: Phytotoxicity has occurred on the following Chrysanthemum varieties: Albatros, Bonnie Jean, Dune, Garland, Gem, Iceberg, Pride, Showoff, Statesman, Tally Ho, Westward Ho, and Wild Money. Before treating large Chrysanthemum plantings, spray only a few plants and observe two weeks for vertical phytotoxicity. Do not apply to Chrysanthemums and Roses with open flowers.

Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption.

NOTE: This product is sold by weight and package is full when packed, but due to fluffy nature this material is inclined to settle.

PROHIBITIONS

Do not contaminate water, food or feed by storage, disposal or cleaning of equipment.
Open dumping is prohibited.

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 contaminate food or foodstuffs.
Do not store or transport meat food or food

Do not store or transport near food or feed.
For help with any spill, leak, fire or emergency involving this material, call day or night 1-800-457-2022 or 1-800-424-8380.

PESTICIDE DISPOSAL

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

CONTAINER DISPOSAL

Completely empty container into application equipment. Do not reuse container. Dispose of empty container in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

IMPORTANT INFORMATION: READ BEFORE USING PRODUCT

LIMITED WARRANTY: 1 Value USA Corporation warrants that this product conforms to the chemical description on the label and is reasonably fit for use under average conditions when used strictly in accordance with the directions on the labeling. Value does not make any warranties, guarantee or representation, express or implied, concerning this product. Specifically, NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE IS MADE.

2. Critical and unforeseeable factors beyond Volant's control prevent it from eliminating all risks in connection with the use of this product. Such risks include, but are not limited to, damage to plants and crops to which product is applied, lack of complete control over the handling and application of this product, and damage caused by drift to other plants or crops. Such risks occur even though the product is reasonably fit under average conditions for the uses stated on the labeling and even though label directions are followed. Buyer and user acknowledge and assume all risks and liability (except those assumed by Volant under 1 above) resulting from handling, storage, and use of the product.

3. Precautions stated on the labeling should be followed to avoid hazardous exposure to the product.

LYNDBAR® -- Reg. TM of Dow Chemical Company for lindopyrros insecticide
PYDAN® -- Reg. TM of E. I. du Pont de Nemours & Co., Inc. for pyrethrin insecticide
ORTHENE® -- Reg. TM of Chevron Chemical Company for acephate insecticide

			poor activity.	
			Eggs: When spray particles come in direct contact with eggs, hatching larvae may be controlled as they consume and emerge from their egg casing.	
			Plus Bollworm - Apply when insects appear and repeat at a 5 to 7 day spray interval.	

COTTON TANK MIXES

Crop	Insects	Amount ORTHENE 75 S + LORSBAN 4E Per Acre	Further Use Instructions	Days to Harvest
Cotton (CA, AZ)	Armyworms Bollworm Cabbage Looper Cotton Aphid Cutworms Fleahopper Grasshoppers Pink Bollworm Plant Bugs (Lygus, Mirids) Soybean looper Thrips Tobacco Bollworm Whitefly	1/3 to 1-1/3 lbs 1 to 2 pts	Do not feed on trash or treated forage to livestock. Do not allow livestock to graze on treated areas.	21

Crop	Insects	Amount ORTHENE 75 S + PYDRIN 2.4 EC Per Acre	Further Use Instructions	Days to Harvest
Cotton (Except CA, AZ)	Tobacco Bollworm	2/3 lb 2-2/3 fl oz	Begin applications when eggs or insects appear and apply as needed to maintain control. Apply in 3 to 5 gals. of water with aerial equipment or in 10 to 25 gals. of water with ground equipment. Do not feed on trash to livestock or allow animals to graze treated areas. Do not apply more than two (2) lbs active ingredient of PYDRIN to a crop in a growing season. All applicable directions, restrictions and precautions on the EPA registered labels are to be followed.	21

COTTON SEED HOPPER BOX TREATMENT (EXCEPT AZ, CA AND THE BLACK LANDS OF TEXAS)

Crop	Insects	Amount ORTHENE 75 S Soluble Powder Per Acre	Further Use Instructions
Cotton	Thrips Cotton Aphids Black (Greasy) Cutworm	3 to 4 oz	Apply 3 to 4 oz. ORTHENE 75 S Soluble Powder per acre in the planter box as a dry powder. Even coverage is required for acceptable insect control. To obtain even coverage, fill planter box 1/2 full of seed, add the proper amount of ORTHENE 75 S Soluble Powder and mix thoroughly with a stick. Add the remainder of the seed to the planter box and the additional required amount of ORTHENE 75 S Soluble Powder followed by thorough mixing. For improved mixing, premix seed with ORTHENE 75 S Soluble Powder in a suitable container, then pour treated seed into planter box. Loss of ORTHENE 75 S Soluble Powder will occur if air planters are used. Plants grown from improperly covered seed will not exhibit insect control. Do not use treated seed for food or feed purposes or process for food.

COTTON IN-FURROW APPLICATION

Crop	Insects	Amount ORTHENE 75 S Per Acre	Further Use Instructions												
Cotton	Aphids Thrips	0.5 to 1.0 lb. active	Refer to the ORTHENE 75 S conversion chart before making product application. ORTHENE 75 S CONVERSION CHART <u>(LBS. A.I. TO OZ. FORMULATED PRODUCT)</u> <table> <tbody> <tr> <td>0.5</td><td>10.7</td></tr> <tr> <td>0.6</td><td>12.8</td></tr> <tr> <td>0.7</td><td>14.9</td></tr> <tr> <td>0.8</td><td>17.0</td></tr> <tr> <td>0.9</td><td>19.2</td></tr> <tr> <td>1.0</td><td>21.3</td></tr> </tbody> </table> Apply 0.5 to 1.0 lb. active ORTHENE 75 S in 3 to 5 gals. of water per acre as an in-furrow spray. NOTE: For the Blacklands of Texas use only the 1.0 lb. active ORTHENE 75 S rate (21.3 oz. formulated product per acre.) ORTHENE 75 S can be mixed with fungicides that are sprayed in furrow for disease control. Flat fan nozzles used for in-furrow application should be set so that the fanned spray pattern is aligned with the row to insure good spray deposition in the seed furrow. Cone type nozzles may not provide a spray pattern that insures maximum spray deposition in the seed furrow and should be avoided. Spray systems that employ metal or plastic tubing for delivery of spray solution into the seed furrow should have tubing securely fastened to the furrow opener and should be checked frequently to insure that the tubing is properly positioned to deposit spray solution into the seed furrow.	0.5	10.7	0.6	12.8	0.7	14.9	0.8	17.0	0.9	19.2	1.0	21.3
0.5	10.7														
0.6	12.8														
0.7	14.9														
0.8	17.0														
0.9	19.2														
1.0	21.3														

FIELD CROPS

Beans and Lima Beans (Dry and Succulent Forms)	Fleahoppers Grasshoppers Aphids Bean leaf beetle Bean leafhopper Cabbage looper Cutworms Green Cloverworm Leafhoppers Mexican bean beetle Plantbugs (Lygus) Soybean looper Thrips Whitefly	1/3 to 2/3 lb 2/3 to 1-1/3 lbs	Apply in water at a minimum of 2 gals. spray per acre by air or 20 to 100 gals. spray per acre by ground. Apply when eggs or insects first appear. Repeat at 7 to 10 day intervals as necessary. Severe insect infestations, use higher rate. Do not feed treated vines to livestock.
Brussels Sprouts Cauliflower	Green peach aphid Cabbage looper Diamondback moth Imported cabbage worm	2/3 to 1-1/3 lbs 1-1/3 lbs	Apply in water at 25 to 150 gals. spray per acre by ground or a minimum of 5 gals. spray per acre by air. Use the high rate when heavy infestations of aphids are present. Begin applications when insects or eggs first appear. Repeat application as needed. Do not apply more than 8 lbs. per acre per season to Brussels Sprouts. Do not feed trimmings to livestock or allow animals to graze in treated areas.
Celery	Green peach aphid Beet and fall armyworms Cabbage looper	2/3 to 1-1/3 lbs 1-1/3 lbs	Apply in water at 50 to 100 gals. spray per acre by ground or a minimum of 5 gals. per acre by air. Apply when eggs or insects appear and repeat at 3 to 10 day intervals as necessary to maintain control. Trim plants (tops removed) before shipment or use. Do not use trimming (tops) for feed or feed.
Head Lettuce (Crisphead Type Only)	Aster Leafhopper Green peach aphid Cabbage looper Armyworms	2/3 to 1-1/3 lbs 1-1/3 lbs	Apply in water at 5 to 10 gals. spray per acre by air or 10 to 60 gals. spray per acre (broadcast) by ground. Apply as necessary to maintain desired control. Do not apply more than 6 2/3 lbs. per acre per season. Do not apply after first head begins to form to crops which germinate from mid-September through November in desert areas of AZ and CA. Do not feed trimmings to livestock or allow animals to graze in treated areas.
Peppers (non-bell type)	Aphids	2/3 lb	For use in Midwestern, Eastern States and Puerto Rico only. Apply in water at 40 to 150 gals. spray per acre with ground equipment. Repeat at 7 to 10 day intervals as necessary. Do not exceed 7 applications per season.
Sweet peppers (Bell type)	Grasshoppers Cabbage looper Green peach aphid Tobacco hornworm European corn borer	1/3 to 2/3 lb 2/3 to 1-1/3 lbs 1 to 1-1/3 lbs	Apply in water at a minimum of 3 gals. spray per acre by air or 25 to 150 gals. spray per acre by ground. Apply when eggs or insects appear. Repeat as necessary until insects have been reduced below economic numbers.

PASTURE, RANGELAND, WASTELAND

Crops	Insects	Amount ORTHENE 75 S Per Acre	Further Use Instructions
Pasture, Rangeland, Wasteland	Grasshoppers Mormon Crickets Black Grass Bugs	1/8 to 1/6 lb 10.004 to 0.125 lb active ingredient	Apply in water at a minimum of 1/2 gal. spray per acre by air or 10 to 20 gals. spray per acre by ground. Use the higher rate in thicker vegetation or on larger insects. An approved drift retardant additive may be added to aid in controlling drift and reducing vaporization of aerial sprays. Do not make more than one application per season. Do not apply when lactating dairy cattle are present. Do not pasture or feed treated hay to lactating dairy cattle within 21 days after application. Remove meat animals from treated areas at least one day before slaughter if they were present at application or grazed treated areas within 21 days after application.
	Imported Fire Ants	Mound treatment - Dry Method Evenly distribute 1 to 2 teaspoons over the mound. Wet Method: Mix 1 or in 5 gals. of water	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

				Apply to a growing season at 2 week intervals Cautions: Phytotoxicity has occurred on the following Crab-apple varieties: Hops, Ichonoki, Nakus Ronduda, Pink Perfection, Red Wine and Snow Cloud.
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COMMERCIAL TURFGRASS, LAWNS, AND OTHER RECREATIONAL TURFGRASS AREAS
DO NOT ALLOW LIVESTOCK TO GRAZE TREATED AREAS DO NOT FEED TREATED GRASS TO LIVESTOCK

Plant	Insects	Amount ORTHENE 75 S Per 1000 Sq. Ft.	Time of Application	Recommended Application
Turfgrass (Residential & Commercial)	Fall Armyworm Yellow-striped Armyworm Southern Armyworm	1/2 to 1.2 oz. (1 1/4 to 3 1/4 lbs. per acre)	As the insects appear. A repeat application at 2 week intervals may be necessary.	Apply the specified amount of ORTHENE 75 S Soluble Powder per 1000 sq. ft. Use a minimum of 5 gals. water per 1000 sq. ft. to obtain good coverage.
	Cutworm	1.2 to 2.4 oz. (3 3/4 to 6 1/4 lbs. per acre)		
	Chinch Bugs	1.2 to 2.4 oz. (3 3/4 to 6 1/4 lbs. per acre)	Apply as needed for adult population knock- down (10 to 14 days).	Apply the specified amount of ORTHENE 75 S Soluble Powder per 1000 sq. ft. Use 1 to 15 gals. water per 1000 sq. ft. to obtain good coverage.
	Flies	1.2 to 2.4 oz.	Apply as needed for knockdown (7 to 10 days) only of existing adult populations.	
	Sod Webworm (Crematogaster spp.)	1/2 to 1 oz. (1 1/4 to 2 1/4 lbs. per acre)	As sod webworms begin to appear. Use the higher amount when quick knock- down is needed or with heavy infestations. Repeat application may be necessary. Do not repeat at more than 1 week intervals.	
	Leathopper	1 oz. (2 1/2 lbs. per acre)	As the leathoppers begin to appear. A repeat application at 1 week intervals may be necessary.	
	Mole Crickets (Except CA)	1.0 to 1.8 oz. (2.66 to 5.2 lbs. per acre)	As mole crickets begin to appear. For knockdown of exist- ing populations, more than one application may be required throughout the grow- ing season. For heavy infestations, use the higher dosage rate.	Apply the specified amount of ORTHENE 75 S Soluble Powder per 1000 sq. ft. Use 1 to 15 gals. water per 1000 sq. ft. to obtain good coverage. Apply during late afternoon or early evening hours and after an irrigation. Do not irrigate after application.
	Greenbug (Schizaphis graminis) Grasshoppers	1/2 oz. (1 1/4 lbs. per acre)	Apply when insects or their damage first appears. Repeat as necessary. Application is not to be re- peated at more than 1 week intervals.	Apply the specified amount of ORTHENE 75 S Soluble Powder. Use 4 gals. of water per 1000 sq. ft. to obtain good coverage. Do not mow turfgrass for at least 24 hours after application.

Plant	Insects	Amount ORTHENE 75 S	Time of Application	Recommended Application
Turfgrass	Imported Fire Ants	Mound Treatment — Dry Method: Evenly distrib- ute 1 to 2 tea spoons over the mound. Breath Method: Mix 1 oz. in 5 gals. of water. Apply 1 gal. of mixture 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 ORTHENE 75 S Soluble Powder as directed. Grass in treated areas may be injured. Do not treat mound more than once per season.

Plant	Insects	Amount ORTHENE 75 S Per 1,000 Sq. Ft.	Time Applic.	Recommended Application
Orchards	Cutworm Flea Beetle Southern Armyworm Yellow-striped Armyworm	1.0 to 1.8 oz. (2.7 to 5.2 lbs. per acre)	As the insects appear. Repeat at 2 week intervals as necessary.	Apply the specified amount of ORTHENE 75 S per 1,000 sq. ft. Use a minimum of 15 gals. of water per 1,000 sq. ft. to obtain good coverage.

42-5	Alfalfa looper Cutworms Aphids	1 1/2 lbs.	Apply in water at 5 to 10 gals. spray per acre by air or 20 to 100 gals. spray per acre by ground Apply when eggs or insects first appear. Make one repeat application, if necessary, to maintain control Do not apply more than 2 1/2 lbs. per acre per season	14
42-5	Grasshoppers	1/2 to 1 1/2 lb.	Apply in water at 2 to 10 gals. spray per acre by air or 10 to 50 gals. spray per acre by ground Repeat as necessary to maintain control Do not graze or cut vines for hay or forage	14
	Soybean looper Cabbage looper Green Caterpillar Velvetbean caterpillar Bean leaf beetle Mexican bean beetle	1/2 to 1 1/2 lbs.		
	Silver Spotted Skipper (except CA)	1 lb.		
	Stink bugs Armyworms Threecornered alfalfa hopper Corn Earworm	1 to 1 1/2 lbs.		
42-5	Grasshoppers	1/2 to 1 1/2 lb.	Apply in water at 10 to 50 gals. spray per acre by ground or in 5 to 10 gals. spray per acre by air	14 (if digging)
	Thrips	1/2 to 1 lb.		
	Corn earworm Fall armyworm Leafhoppers Loopers Velvetbean caterpillar	1 to 1 1/2 lbs.	Begin applications when insects first appear and repeat as needed to maintain control. Do not feed treated forage or hay to livestock or allow animals to graze treated areas	

		sprinkling the mound until it is wet and treat a four (4) foot diameter circle around the mound	acre Do not treat mound more than once per season Do not apply when lactating dairy cattle are present. Do not pasture or feed hay to lactating dairy cattle within 21 days after application. Remove most animals from treated areas at least 1 day before slaughter if they were present at application or grazed treated areas within 21 days after application.
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SPECIALTY USES

Crop	Insects	Amount ORTHENE 75 S Per Acre	Further Use Instructions
Non-Crop Areas (field borders, fencerows, roadsides, ditchbanks and borrow pits)	Grasshoppers	1/2 lb. (25 lb. active ingredient)	For early to mid-season application to grasshoppers in field borders, fencerows, roadsides, ditchbanks, and borrow pits. Apply in 1 to 5 gals. of water by air, or in 10 to 20 gals. of water with ground equipment. Use the higher volumes when spraying heavier foliage. Do not graze or feed vegetation cut from treated areas.

Crop	Insects	Amount ORTHENE 75 S Per Acre	Further Use Instructions
Non-Crop Areas	Imported Fire Ants	Mound Treatment— Dry Method: Evenly distribute 1 to 2 teaspoons over the mound Branch Method: Mix 1 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 ruined. Do not treat mound more than once per season

Plants	Insects	ORTHENE 75 S Per 100 Gals.	Time of Application	Recommended Application
Carnations Dahlias Easter Lily Gladiol Gypsophila Pachy- sandra Penny Roses Sedum Stance Straw- berry Yarrow Zinnia	Aphids Thrips Lygus	2.3 lbs (10.5 oz)	As insects begin to appear Repeat applications may be necessary	Apply the specified amount of ORTHENE 75 S in 100 gals. 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 Boston Ivy	Japanese Beetle	1 1/3 lbs (21.3 oz)	As the Japanese Beetles begin to appear Repeat applications at 7 week intervals may be necessary	

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STOWAGE AND DISPOSE

[illegible]

1. *From the above, it is clear that the Government of India has not taken any steps to improve the position of the Scheduled Caste in the field of education.*

1. **1987-1990** **Year of Comm. Congresses or Conferences** **Year of Comm. Congresses or Conferences**
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COMPANY FORMERLY KNOWN AS THE NATIONAL ASSOCIATION OF
THE AMERICAN PEOPLE IS NOW KNOWN AS THE AMERICAN PEOPLE'S PARTY

Phase	Activity	Start Date	End Date	Notes	Recommendations/Agreements
Phase 1: Initial Assessment	Initial Assessment	1997-01-01	1997-01-15	Initial assessment of the situation.	Agree to the initial assessment of the situation.
Phase 2: Data Collection	Data Collection	1997-01-16	1997-02-15	Collect data from various sources.	Agree to the data collection plan.
Phase 3: Data Analysis	Data Analysis	1997-02-16	1997-03-15	Analyze the collected data.	Agree to the data analysis plan.
Phase 4: Report Writing	Report Writing	1997-03-16	1997-04-15	Write the final report.	Agree to the report writing plan.
Phase 5: Report Review	Report Review	1997-04-16	1997-05-15	Review the final report.	Agree to the report review plan.
Phase 6: Report Distribution	Report Distribution	1997-05-16	1997-06-15	Distribute the final report.	Agree to the report distribution plan.
Phase 7: Follow-up	Follow-up	1997-06-16	1997-07-15	Follow-up on the report.	Agree to the follow-up plan.
Phase 8: Evaluation	Evaluation	1997-07-16	1997-08-15	Evaluate the project.	Agree to the evaluation plan.
Phase 9: Final Report	Final Report	1997-08-16	1997-09-15	Final report of the project.	Agree to the final report plan.
Phase 10: Project Closure	Project Closure	1997-09-16	1997-10-15	Closure of the project.	Agree to the project closure plan.

REF ID: A66049

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10/1/72

NOT REVIEWED
To Agent
Based on initial labeling dated 4/30/72

ORTHENE[®] 75 S Soluble Powder

KEEP OUT OF REACH OF CHILDREN
CAUTION
SEE BELOW FOR ADDITIONAL
PRECAUTIONARY STATEMENTS

INSECTICIDE

Orthene 75 S Soluble Powder is a highly effective insecticide for the control of a wide range of insects on a variety of crops.

ORTHENE KILLS FIRE ANTS

CAUTION: Orthene 75 S Soluble Powder is a highly effective insecticide for the control of a wide range of insects on a variety of crops.

STATEMENT OF PRACTICAL TREATMENT: Orthene 75 S Soluble Powder is a highly effective insecticide for the control of a wide range of insects on a variety of crops.

ADDITIONAL INFORMATION: Orthene 75 S Soluble Powder is a highly effective insecticide for the control of a wide range of insects on a variety of crops.

PRECAUTIONARY STATEMENTS: Orthene 75 S Soluble Powder is a highly effective insecticide for the control of a wide range of insects on a variety of crops.

ORTHENE 75 S SOLUBLE POWDER is a highly effective insecticide for the control of a wide range of insects on a variety of crops.

10/1/72
Tobacco Plant Application Exemption

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The following information was obtained from a review of the records of the [redacted] Department of the Army, Office of the Adjutant General, at Fort Belvoir, St. Louis, Missouri, dated [redacted].

[The remainder of the page contains extremely faint, mostly illegible text, which appears to be a continuation of a report or document.]

STORAGE AND DISPOSAL

Item	Quantity	Unit	Location	Remarks
1. Pesticide	100	lb	Warehouse	For use in field
2. Pesticide	50	lb	Warehouse	For use in field
3. Pesticide	25	lb	Warehouse	For use in field
4. Pesticide	10	lb	Warehouse	For use in field
5. Pesticide	5	lb	Warehouse	For use in field
6. Pesticide	2	lb	Warehouse	For use in field
7. Pesticide	1	lb	Warehouse	For use in field
8. Pesticide	1	lb	Warehouse	For use in field
9. Pesticide	1	lb	Warehouse	For use in field
10. Pesticide	1	lb	Warehouse	For use in field

STORAGE AND DISPOSAL

PROHIBITION: No person shall store or dispose of any pesticide in a manner which is inconsistent with the provisions of this Act.

STORAGE: Pesticides shall be stored in a secure, dry, and well-ventilated area, away from food, feed, and other products.

DISPOSAL: Pesticides shall be disposed of in accordance with the provisions of this Act.

NOTES: The following information is for informational purposes only and does not constitute a guarantee of performance or results.

1. The use of pesticides should be based on a thorough knowledge of the pest and the crop.

2. The use of pesticides should be based on the current recommendations of the manufacturer.

3. The use of pesticides should be based on the current recommendations of the local extension agent.

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9. Pesticide	1	lb	Warehouse	For use in field
10. Pesticide	1	lb	Warehouse	For use in field

EST. AVAILABLE COST

TEST AVAILABLE COPY

1. The first part of the report is a summary of the work done during the period covered by the report. It includes a brief statement of the objectives of the work, a description of the methods used, and a summary of the results obtained. The summary is followed by a detailed account of the work done, which is divided into sections dealing with the various aspects of the work. The final part of the report is a conclusion, in which the author discusses the significance of the results obtained and suggests directions for further work.

2. The second part of the report is a detailed account of the work done during the period covered by the report. It is divided into sections dealing with the various aspects of the work, including the objectives of the work, the methods used, the results obtained, and the conclusions drawn. The author discusses the significance of the results obtained and suggests directions for further work.

3. The third part of the report is a conclusion, in which the author discusses the significance of the results obtained and suggests directions for further work. The author discusses the significance of the results obtained and suggests directions for further work.

4. The fourth part of the report is a conclusion, in which the author discusses the significance of the results obtained and suggests directions for further work. The author discusses the significance of the results obtained and suggests directions for further work.

5. The fifth part of the report is a conclusion, in which the author discusses the significance of the results obtained and suggests directions for further work. The author discusses the significance of the results obtained and suggests directions for further work.

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7. The seventh part of the report is a conclusion, in which the author discusses the significance of the results obtained and suggests directions for further work. The author discusses the significance of the results obtained and suggests directions for further work.

8. The eighth part of the report is a conclusion, in which the author discusses the significance of the results obtained and suggests directions for further work. The author discusses the significance of the results obtained and suggests directions for further work.

9. The ninth part of the report is a conclusion, in which the author discusses the significance of the results obtained and suggests directions for further work. The author discusses the significance of the results obtained and suggests directions for further work.

10. The tenth part of the report is a conclusion, in which the author discusses the significance of the results obtained and suggests directions for further work. The author discusses the significance of the results obtained and suggests directions for further work.