TOBACCO (except CA)

	THA MANAGE	ATTE APPLICATION	755	
			LOS GETTIONE TORAGO	
137	PEST			
00000	fiez Bossa. Green Per becce Abhid. Cultivarm	och Agnid. To-	1	
or approximately tokar spray of t loply in a minim O NOT APPLY (y 3-4 weeks after transplant DRTHENE-Islands insect So um of 100 gallons of transpla MORE THAN 1 LB ORTHENI APPLICATION AS SOME PHY	ng, for leter seasor rev-12 7.5 S M werer ser acre's F TOTOXICITY MAY O	SPRINT PER ACRE AS A TRANS	vor R
CROP	PEST	APPLICATION	LES. ORTHENE FORAGO 2 75 WOOD SPRAY PER ACRE	55
Tobacco	Grasshoppers		'a to 4a	
(Flue-Cures Air-Cures	Green Peach Aphie, Fle	e Boote.		
mir-curec Dark Fire-Curei	Hornworm		2 ₃	
	Tobacco Aphid		45 to 1	
	Budworm, Cabbage Lor	pper, Cutworm	! 1	
air Apply on a	I day schedule or as needed until the spray decest has d	Do not apply within	r a minimum of 3 gals, per acre by 3 days of hervest. Do not re-enter LBS, ORTHERE TOBAGGO.	75 5
Tobacco Bed Treatment	Fies Beetle, Green Dacco Aphid, Cutworn		1	
	saus 10 iuznis ludionāu cai		of water per every 1000 sq. ft. of	
CROP	PEST	AMOUNT ORTHE	M. TOBACCO MORET OFRAY	155 Soluble
Tobacco	Imported Fire Ants - I	10 2 teaspoons ov 1 oz in 5 gais of mound area by s	- Dry Method: Eveniv distribute 1 er the mound. Dreath Method: Mix water Apply 1 gal of mix to each prinking the mound until it is we (4) foot diameter circle around the	1 1

For best results apply the material in the early morning or late afternoon when the Lnts are most active. Applications made under prolynged 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. Do not apply within 3 days of harvest.



PATHENE oluble Powder

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

515

SECTICIDE)

e Ingredient cephate (O,S-Dimethyl acetyl-cosphoramidoti-coate) By Wt. Ingredients RTHENE®, Acephate S. Pat. No. 3,914,417

Manufactured for Valent U.S.A. Corporation © 1991 Walnut Creek CA 94596-8025 R Form 254-H. Made in U.S.A. EPA Reg. No. 59639-26-AA

ORTHENE KILLS FIRE ANTS

PRECAUTIONARY STATEMENTS S TO HUMANS & DOMESTIC ANIMALS

TON

swallowed. Causes eye irritation. Avoid contact with eyes, skin and clothing. Avoid breathing dust or Wash hands thoroughly after handling. Do not allow children or pets to come into contact with treated

til sprays have dried.
ENT OF PRACTICAL TREATMENT wed drink 1 or 2 glasses of water (or milk) and induce vomiting by touching the back of the throat with possible contact a physician, Poison Control Center, or emergency center before inducing vomiting. Do se vomiting or give anything by mouth to an unconscious person. Take person and product container to est emergency treatment center. In case of eye contact, wash eyes with fresh water for 15 minutes, if continues, see a doctor. For skin contact, wash skin with plenty of soap and water. If inhaled, remove

Physicians: Emergency Information—call 800-457-2022. Acephato is a cholinesterase inhibitor if signs of terase inhibitor appear, atropine is antidotal. 2-PAM may also be used in conjunction with atropine but of be used alone.

3 SAFETY

TO SHEET TO SHEET OF THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT DURING MIXING/LOADING, AND APPLICATION EQUIPMENT, AND DISPOSAL PESTICION, REPAIR, AND CLEANING OF MIXING, LOADING, AND APPLICATION EQUIPMENT, AND DISPOSAL PESTICIDE, AND JEREAS FOR Which a reentry interval has been established! EARLY REENTRY INTO TREATED chemical resistant gloves, long sleeved shirt, long legged pants, shoes and socks If overhead exposure such as during flagging, wear a hood or wide brimmed hat. WORK SAFETY: Always wash hands, face s with soap and water before smoking, eating, drinking or toileting AFTER WORK: Before removing gloves, am with soap and water Take off all work clothes and shoes. Shower using soap and water. Wear only othes when leaving job. Do not wear contaminated clothing Personal and protective clothing worn during ist be laundered separately from household articles. Store protective clothing separately from personal Clean of leader in leading to protective clothing separately from personal Clean or launder protective clothing after each use

NMENTAL HAZARDS

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

duct is highly toxic to bees exposed to direct treatment or r, sidues on blooming crops or weeds. Do not is product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

ONS FOR USE

ulation of Federal Law to use this product in a manner inconsistent with its labeling

NTIRE LABEL USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS ITH APPLICABLE STATE AND FEDERAL REGULATIONS.

REE:::kY STATEMENT unprotected persons out of operating areas or vicinity where there may be drift

an agricultural crops, commercially grown ornamentals, commercial sod farms, and in greenhouses, reentry ited areas is prohibited for 24 hours after the end of application unless the protective clothing specified in this label is worn. For other uses, including goff courses and other non-agricultural areas, do not eated areas without protective clothing until sprays have diried.

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

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

IONS o cranberries only by sprinkler irrigation systems. Do not apply by chemigation to any other crop, or this ing any other type of irrigation system.

Table of Equivalents

nount of OATHENE 75 S Soluble Powder	1½ lbs.	1 lb.	2⁄3 l b .	4 02	2 oz.
ount Active Contained	1 fb.	3⁄4 lb.	!6lb	14 lb.	1/in lib.

COTTON

Crops	Insects	Amount ORTHENE 75 S Per Acre	Further Use Instructions	Days to Harvest
1	Thrips	2 oz. to 4 oz	Apply in water at 3 to 10 gals.	21
_	Plantbugs (Lygus)	13 to 1/3 lbs. 43 to 1/3 lbs (CA, AZ)	spray per acre by air iminimum 5 gals/acre in CA, AZ) or 10 to 25 gals, spray per acre by ground.	
	Fleahopper	`s 1ù		
	Cotton Aphid Whitefly	²a to 1½ lbs.	Apply when eggs or insects first appear. Repeat as necessary to maintain control	
Cabbage Bollworm Tobacco Budworn Adults Larvae Eggs/ DEADHA Stinkbugs (CA, AZ)	Armyworms Cabbage looper	11/5 lbs	Do not feed gin trash to livestock i or allow animals to graze on	
		(East of Rockies) 11/3 lbs. (CA, AZ)	treated areas.	
	Budworm Adults		Lygus — Use higher rate for lygus adults that have migrated into cotton	
	1		Beltwerm and Telesce Bedwarm - Early season light Infestation use 47 fb. per acre. Mid and late season moderate to severe infestations use 1 to 1/5 lbs. per acre. Apply when	
	Stinkbugs (CA, AZ)	1 lb.		
	Pink Bollworm (CA, AZ)	₹½ lbs.	eggs appear and repeat at 3 to 7 day apray interval.	
			Adults/Larvee: Moths are con- trolled when they come in direct contact with spray	

rnut Churs					
Crops	insects	Amount ORTHENE 75 S Per Acre	Further Usa Instructions	Days to Hervesi	
Cranberries	Cranterry Blossom Worm Gypsy Moth False Armyworm Fireworms Spanworms Spanganothis	1-1/3 lbs.	Apply in water by air, ground or with sprinklers 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 CRANEERRIES:
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 irri-

gation 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 othe, experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the label-prascribed 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 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 scleenid-operated valve located on the intection pipeline must also contain a functional, normally closed scleenid-operated valve located on the intection pipeline must also contain a functional, normally closed scleenid-operated valve located on the injection pipeline must contain a functional process and the injection pipeline must contain a functional process and the process of the injection pipeline must contain a functional process and the process of the process of the process of the injection pipeline must contain a functional process of the process of the process of the process of the injection pipeline must contain a functional process of the process of the

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stros. 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 its adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively desiried and constructed of materials that are compatible with pesticides and capable in being fitted with a system

onter lock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Solid Sat Systems: Apply specified dosage for the entire length of the programment of a regular ringation 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 posticide through all nozzlas before turning off irrigation water. To ensure the lines are flushed and free of remaining posticide, a dye indicator may be injected into the lines to mark the end of the application period. See NOTE.

Center Provide 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 appli-cation. Inject the product with a positive displacement pump into the main line ahead of a right angle turn to insure

cation injection by both and adequate mixing. Adequate mixing adequate mixing. Application water per acre may result in decreased product performance by removing the chemical from the zone of effectiveness.

VEGETABLE CROPS

Crops	Insects	Amount URTHENE 75 S Per Acre	Further Use Instructions	Days to Harvest
Beans and Lima Beans (Dry and Suc- culent Forms)	Fleahoppers Grasshoppers Aphids Bean leaf beetie Bean leafroller Cabbage looper Cutworms Green Cloverworm Leafhoppers Mexican bean beetle Plantbugs (Lygus) Soybean looper Thrips Whitefly Armyworms Corn earworm European corn borer	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 rates. Do not feed treated vines to livestock.	14 (snapbeans) or dry beans) D (lima beans – succulent form)
Brussels Sprouts Cauliflower	Green peach aphid Cabbage looper Diamondback moth Imported cab- bage worm	2/3 to 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.	14
Celery Head _ettuce	Green peach aphid Beet and Fall armyworms Cabbage looper	2/3 to 1-1/3 lbs. 1-1/3 lbs 2/3 to 1-1/3 lbs.	Apply in water at 50 to 100 gals spray per acre by ground or in 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 food or feed. Apply in water at 5 to 10 gals.	21 Spring.
(Cresphead Typ Only)	Cathopper Green peach aphid Cabbage looper Armyworms	1-1/3 lbs	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. Bo not apply after first head	summer and early fell crops in all areas and winter crops in Florida and lease, lete fell crops in Arizona, winter crops

TREES AND SHRUBS

	INCES AND SHINGS							
3	Insects	Amount ORTHENE 75 S Per 100 Gals.	Time of Application	Recommended Application				
d	California Oakworm Cankerworms (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.				
	Nantucket Pine Tip Moth Larvae	1 lb. (16 oz.)	Time of application is important. Consult your Farm Advisor or County Extension Agent. Repeat applications will be required for subsequent 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 DRT HENE 75 S Soluble Powder in 100 gais, water with a hydraulic sprayer as a full coverage spray				
	Box Elder Bugs Sawflies 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)	1-15 (b. (213 oz.)	As the larvae begin to appear, ORTHENE will not prevent Elm Leaf Beetle aggs from hatching.					
s Fir mas	Douglas Fir Needle Midge	½3 lb. (10.5 oz.)	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 ORTHENE 75 S Soluble Powder in not less than 2 gals, of spray per acre by air or in 100 gals, of spray per acre by ground.				
ng oples	Aphids Tent Caterpillars Leafrollers	1/5 lb. (5 3 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 week interval. Cautien: Phytotoxicity has occurred on the following Crabapple varieties: Hopa, Lihonoski.				
				Malusfloribunds, Pink Ferfection, Red Wine and Snow Gload.				

COMMERCIAL TURFGRASS, LAWNS, AND OTHER RECREATIONAL TURFGRASS A JEAS NOT ALLOW LIVESTOCK TO GRAZE TREATED AREAS. DO NOT FEED TREATED GRASS TO LIVESTOCK.

ıts.

	lasacts	Amount ONTHENE 75 S Per 1000 Sq. Ft.	Time of Application	Ressumended Application
tal	Feli Armyworm Yellow Striped Armyworm Southern Armyworm	がto 1.2 oz. (1分to 3% lbs. per acre)	As the insects appear. A repeat application at 2 week intervals may be necessary.	Apply the specified amount of ORTHENE 75.5 Soluble Powder per 1,000 sq. ft. Use a minimum of 5 gais, water per 1,000 sq. ft. to obtain good coverage.
	Cutworm	1.2 to 2.4 oz. (3¼ to 6½ lbs. per acre)		
	Chinch Bugs	1.2 to 2.4 oz. (3½ to 6½ 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 1,000 sq. ft. Use 1 to 15 gals, water per 1,000 sq. ft. to obtain good coverage.
	Fleas	1.2 to 2.4 oz.	Apply as needed for knockdown (7 to 10 days) only of exisiting adult populations.	
	Sod Webworm (Crambus spp.)	½ to 1 sz. (1½ to 2¾ ibs. per scre)	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 I week intervals.	
	Leafhopper	1 oz (2% ibs. per acre)	As the leafhoppers begin to appear. A repeat application at I week intervals may be necessary.	
	Mole Crickets (Except CA)	1.0 to 1.9 oz. (2.66-5.2 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	Apply the specified amount of ORT NEME 75.3 Soluble Powder par 1,000 ag. R. Use 1 to 15 gals. water per 1,000 ag. ft. to obtain good coverage. Apply during lets aftermen or early evening hours and efter an
		14 1414 10 1	infestations, use the higher decage rate.	irrigation. De not irrigets ofter application.
	(Settendar)	1/3 az. (11/3 lbs. per sere)	Apply when insects or their damage first appears. Repeat se nonessant Applica.	Apply the specified amount of OFF MEINE 75 S Seleck 9 Povidor. Use 4 gale, of water per LINE se. R. in intrins and a oversee. Do not

STORAGE AND DISPOSAL

PROHIBITIONS

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

STURMAGE
Keep pesticide in original containor.
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 foodsuffs.
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 900-457-2022.
PESTICIDE DISPOSAL.

Waster resulting from the use of this product may be disposed of on site or at an approved waste disposel facility. CONTAINER DISPOSAL

LUTE LAWREST UTBT-USANL.
Completely empty carrister into application equipment. Do not reuse container. Dispose of empty carrister in a saintary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

IMPORTANT INFORMATION. READ SEFORE USING PRODUCT.

LIMITED WARRANTY: I. Valent U.S.A. Corporation warrants that this product conforms to the chemical description on the label and is reasonably fit for use under everage conditions when used strictly in accordance with the directions on the labeling. Valent does not make not authorizes any agent or representative to make, any offer warranty 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 Valent's control prevent it from eliminate 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 offer 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 Valent under 1 above) resulting from handling, storage, and use of the product. and use of the product.

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

LORSBAND—Reg. TM of Dow Chemical Company for chlorpyrifos insecticide.

PYDRIND—Reg. TM of E.I. du Pont de Nemours & Co., Inc. for fenvalerate insecticide.

ORTHENED—Reg. TM of Chevron Chemical Company for acephate insecticide.

ACCEPTED

OCT 24 1991

Under the Federal Insecticide, Funcicide, and Rodenticide Act. em emended, for the perticide registered under 19639-2.

EPA Reg. No. 59639-2.

particles during application. Most hild is most likely to encur when application is made late in the evenings during periods of peak activity.	
Eggs: When spray particles come in direct contact with eggs, het/hing lenve may be controlled as they consume and emerge from their age casing.	
Pink Beliworm — Apply when insects appear and repeat at a 5 to 7 day spray interval.	

COTTON TANK MIXES

Crops	Insects	Amount ORTHENE 75 S + LORSBAND 4E Par Acre	Further Use Instructions	Days to Harvest
Cetton (CA,AZ)	Armyworms Bollworm Calbage Looper Cotton Achiet Cutton Achiet Cutton Final Flashopper Flashopper Plant Bugs (Lygus, Min dx) Lud Marsh Gaterpillar Thinps Tebacco Budworm Wistelly	1/3 to 1-1/3 lbs. 1 to 2 pts.	Do not feed gin trash or treated forage to investock. Do not allow investock to graze on treated areas.	21

Crops	10 ,1%	ORTHENE 75 S + PYDRIMO 2.4 EC Per Acre	Farther Use Insymptions	Days to Harvest
Cotton (Except CA, AZ)	Tobac:: Budwon:	2/3 lb. 2-2/3 fl. oz.	Begin applications when eggs or insects appear and apply as needed to main and apply as needed to main and control. Apply in 3 to 5 gals, or water with aenal equipment or in 10 to 25 gals, of water with ground equipment. Do not feed gin 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	21

COTTON SEED HOPPER BOX TREATMENT (EXCEPT AZ. CA AND THE BLACK LANCS OF TEXAS)

Crop	insects	Amount (IRTHENE 75 S Soluble Powder Per Acre	Farther Use Instructions
Cotton	Thrips Cotton Aphids Black (Greasy) Cutworm	3 to 4 oz.	Apply 3 to 4 oz ORTHENE 75 S Soluble Powder per soz si in the planter look as a sirry powder. Even convertage is required for acceptable insect control. To obtain even coverage, the planter look 2 full of seed, and the proper amount of III-RENE TS Soluble Powder and mix thore, they writh a stock Add the remainder of the size is die plan er box and the additional required amount of ORTHENE 75 Soluble Powder followed by thorough mixing, for smpots with III-RENE TS Soluble Powder in a sunable container this pour treated seed into planter box. Luss of ORTHENE 75 Soluble Powder will occur fair planters are used. Plants grown from improperty covered seed will not exhibit insect control. Do not use treated seed for food or feed purposes or process for U.

COTTON IN-FURROW APPLICATION

Cree	lasects	Amount ORTHENE 75 S Per Acre	Further Use	Instructions
Cotton	Aphids Thrips		Refer to the ORTHENI chart before making is ORTHENE 75 S CO I.BS. A.I. TO OZ. FOR 0.5 O.6 O.7 O.8 O.9 O.8 O.9 O.8 O.9 O.8 O.9 O.8 O.9	F75 S conversion product application NVERSION CHART MULATED PRODUCT 10.7 12.8 14.9 17.0 19.2 21.3 Itive ORTHENE 75 S in per scre as an in-fur- sends of Texas use only NENE 75 S rate (21.3 Iti per acre.) ORTHENE the fungicides that are disease control for in-furrow applicating the firmed spray in the row to wave in mithe seed furrow yo not provide a spray nearment parky deposition, and should be a in that employ metal or very of agricy solution.
<u> </u>			spray solution into th	

		3	De not apply after first head begins to turn to creds which germinate from mid-September through November in desert areas of AZ and CA. Do not feed trimmings to investock or allow animals to graze on treated areas.	winter cri in Aryoni California
Peppers (non- bell type)	Aphids	2/3 lb	For use in Midwestern, Eastern States and Puerto Rico only.	7
			Apply in water at 40 to 150 gais spray per acre with ground equipment.	
			Repeat at 7 to 10 day intervals as necessary	
			Do not exceed 7 applications per season	
Sweet	Grasshoppers	1/3 to 2/3 lb.	Apply in water at a minimum of	7
peppers (Bell type)	Cabbage looper Green peach aphid	2/3 to 1-1/3 lbs	3 gals, spray per acre by air or 25 to 150 gals, spray per acre by ground	
	Tobacco hormworm		Apply when eggs or insects	İ
	European corn borer	1 to 1-1/3 lbs.	appear. Repeat as necessary until insects have been reduced below economic numbers.	

PACTURE, RANGELAND, WASTELAND

Creps	Insects	Amount ORTHENE 75 S Per Acre	Further Use Sestructions	Days Harv
Pasture, Pangeland, Westeland	Grasshoppers Mormon Crickets Black Grass Bugs	1/8 to 1/6 lb (0.094 to 0.125 lb. active ingredient)	Apply in water at a minimum of 1/2 gal, spray per acre by air or 1/2 to 20 gals, spray per acre by uround. Use the higher rate in thicker vegetation or on larger insects. An approved cirif retardant additive may be added to aid in controlling drift and reducing evaporation of aerial sprays. Do not make more than one application per season. Do not apply when factating dairy cattle are present. Do not pasture or feed treated hay to lactating dairy cattle within 21 days after application. Remove meet 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.	21 for ha
	ir ported Fire Ants	Mound Frestment—Dry Stethed: Eventy distribute 1 to 2 teaspoons over the mound: Breach Stethed: Mix 1 o2 in 5 gais, of water. Apply 1 gal. of mix to each mound area by sprinking the mound until it is wet and treat a four (4) foot dismeter circle around the mound.	For best results apply the material in the early murning 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. Treat maximum of 13 mounds per acre. Do not treat mound more than once per season. Do not apply when factating dairy cattle are present. Do not pasture or feed hay to factating dairy cattle are present. Do not pasture or feed hay to factating dairy cattle within 21 days after application. Remove meat 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.	21

SPECIALTY USES

t/ops	Insects	Amount ORTHENE 75 8 Per Acre	Further Use Instructions			
Non-Crop Areas (field borders, fencerows, roadhides, ditchisants and borrow pits)	Grasshoppers	1/5 lb. (.25 lb. active ingredient)	For early 10 mid-season application grasshopers in held borders, fencinadade, dichbanks, and porrow i Apply in 1 to 5 gals, of water by air in 10 to 20 gals, of water with 5 did equipment. Use the higher volumes spraying heavier foliage 00 not greated eggetation cut from trested an			

		1 4	
Creps	lasects	ORTHÉRE 75 \$	Forther Use Instructions
Non-Crop Areas	imported Fire Ants	Meand Treatment— Dry Method: Eventy distribute 1 to 2 teaspoons ov r the mound Dresch Method: Mix 1 oz m 5 gels od water Apply 1 gel of mix to each mound area by sprinking the mound until it is wet and treat a four (4) foot demeter circle around.	For best results apply the material in the early morning or late afternoon when the ants are most active. Applications made under prolonged hat and div conditions may be ineffective due to the location of the ants deep within the nest. Grass in treated area may be injured. Do not trext mound more then once par season.

Plants	Insects	Optive sel 75 to For 180 Gold.	Time of Application	Recommended Applicat
Container Grown Nersery Stock (Arbor- vitse Assiss	Bleck Vine Weevil Strawberry Root Weavil	1 ib (16 oz)	Application should be made by mid- September for green- house stock and by mid-Detaber for out- door stock. Consult your local county	Apply the specified amount of ORTHENE 75 3 Soluble Power 189 gots of solutions so as to thoroughly drench the root s.

	Grasshoppers		appears. Repeat as necessary. Applica- tion is not to be re- peated at more than I week intervals.	USE 4 gats, of weter per Lutar sq. 11. to obtain good coverage. Do not mow turigress for at least 24 hours after application.
Plents	Insects	DATMENE 75 \$	Time of Application	Recommended Application
Turigrass	Imported Fire Ants	Mesend Treatment Dry Method: Eventy distribute 1 to 2 tea- spoons over the mound. Dreach Method: Mix 1 oz. in 5 gals. of water. Apply 1 gal. of mix to each mound aree by sprinkling the mound until it is wet and treat a four (4) foot diameter circle a round the mound.	For best results apply the material in the sarly morning or late afternoon when the ants are most active. Applications made under prolonged hot and dry conditions may be wriffective due to the location of the ants deep within the nest.	Apply the specified amount of ORT NEME 75 S Soluble Powder as directed. Grass in treated areas may be injured. Do not treat mound more than once per season.
Plants	Insects	Amount ORTHENE 75 S Por 1,000 Sq. Ft.	Time of Application	Recommended Application
Dichondra	Cutworm Flee Beetle Southern Armyworm Yellow Striped Armyworm	1.0 to 1.9 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 1000 sq. ft. Use a minimum of 15 gals. of water per 1,000 sq. ft. to obtain good coverage.

OUTDOOR WASP AND REMARKED CORAY

UUTDOON WASP ARD PERIMETER SPRAT				
Lecation	Insects	Amount ONTHENE 75 \$ Per Gallen	Time of Application	Recommended Application
Outdoor Wasp and perimeter area.	Wasps	1.6 az. (0.10 lbs.)	Treat early or lete in the day, as wasps are generally less active during these times.	Apply specified amount of ORTHENE 75 Soluble Powder per each gallon of water used. Apply as a spot treatment to the nest, nest entrance, and surrounding areas where the weaps alight.
	Cockroaches Ants Pillbugs Earwigs (Permeter Treatment)	16 oz. (0.10 lbs.)	As the insects appear.	Apply specified amount of ORTHENE 75 Soluble Powder 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 entirance. Also apply as a residual spray or with a paint brush to surfaces of buildings, window frames, shutters, entryways, screens, eaves, patios, garages, carports, around garbage areas and other areas where these pests congregats.

OUTDOOR FLORAL CROPS AND GROUND COVERS

		UU I LUUR PLURAL	CROPS AND GROUND C	UVERS
Plants	lasects	Amount ORTHENE 75 S Per 100 Gals.	Time of Application	'secommended Application
Darsies Dahlias Easter Lify Gladioli Gypsophila Pachy- sandra Peomy Roses Sedum Statice Straw- flower Yarraw Zinnia	Aphids Thrips Lygus	2/3 lb. (10.5 oz.)	As insects begin to appear. Repeat applications may be necessary.	Apply the specified amount of ORTHENE 75 in 100 gals: water with a hydrautic 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 Beatle	1-1/3 lbs. (21.3 oz.)	As the Japanese Beetles begin to appear Repeat applications at 2 week intervals may be necessary.	

GREENHOUSE FLORAL AND FOLIAGE PLANT CROPS

Plants	insects	Amount ORTHENE 75 S Por 100 Gals.	Time of Application	Recommended Application
Roses	Leafrollers	75 to 1 lb (10 5 to 16 oz)	As leafrollers 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.
Fokage Plants	Aphids	1/3 lb. (5 3 oz)	As aphids begin to appear.	Apply the specified amount of ORTHENE 75 S Soluble Powder in
Orchids Anthuriums Cacti Poinsettia	Mealybugs Thrips Whiteflies	43 lb. (10 5 oz.)	As the insects begin to appear. A repeat application, at a 2 week interval, may be necessary for control of mealybugs and whiteflies.	100 gais water with a hydraulic sprayer as a full coverage spray. The addition of a wateng agent may be required on difficult to wet foliage. Caution: Phytotoxicity has occured on the following foliage
	Scales (Crawlers)	44 ib (10 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.	plants: Bletchum gibbum. Cissus antarctica. Ficus triangularis. Fittonis verschaffeth, Maranta isuconeura kerchoveena. Pachysticchip lutea. Piectranthus australis, Polypodium aureus, Polypitichum, Pieris ansiormis, Tolmies menureus Before treating large plentengs apray only a few planta and placers a weeks for verietal physioloxicity. Application of DRTHENE 75.5 Selbale Powder on Poincettes after bract formation miley result in physioloxicity on certain verietals.
	Sweet Potato Whitehes (except CA and NV)	1/10 (5.3 oz.) glus TAME 2.4 EC Spray 19/1 ff. oz.	Apply when insects first appear. It a population is well established make one	For sensor potate whitefly central, agely the specified amounts of ORTHERE 79 & Scholer Painder this TAME 2.4 EC Soray as a rank

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the remainder of the seed to the planter box and the additional required emount of ORTHENE 75 Soluble Powder followed by thorough mixing. For improved mixing, oremix seed with DRTHENE 75 Soluble Powder in a suitable container, then pour treated seed into planter box Loss of ORTHENE 75 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 oil.

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COTTON IN FURROW APPLICATION

COTTON IN-FURROW APPLICATION			
insects	Amount DATHENE 75 S Per Acre	Further Use Instructions	
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	į
		LBS AT TO QZ FORMULATED PRODUCT	
	1	05 102	ı
	1		
İ	1	0.8 17.0	1
		0 9 19.2	1
		10 21.3	
		3 to 5 gals, of water per acre as an in-tur-	
		the 1.0 lb. active ORTHENE 75 S rate (21.3 oz. formulated product per acre.) ORTHENI	E
		tion 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 be avoided to the seed furrow should be tubing securely fastened to the furrow opener an should be checked frequently to insure that the tubing is properly positioned to deposit	dit
	Aphids		Aphids Thrips Description Aphids Thrips Description Aphids Thrips Description ORTHENE 75 S Conversion chart before making product application ORTHENE 75 S CONVERSION CHART LBS. Al. TO QZ FORMULATED PRODUCT Description

FIELD CROPS

		PIELU C	nor 3	
Crops	Insects	Amount ORTHENE 75 S Per Acre	Further Use Instructions	Days to Harvest
Peppermint Spearmint	Alfalfa looper Curworms Aphids	Unibs	Apply in water at 5 to 10 gals spray per acre by air or 20 to 100 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% bs per acre per season.	14
Soybeans	Grasshoppers	, to ∛₃ lb	Apply in water at 2 to 10 gals	14
	Soybear looper Cabbage looper Green Cloverworm Velvetbean caterpilar Bean leaf beetle Mexican bean beetle	i a to 1 /a lbs .	spray per acre by air or 10 to 53 gats spray per acre by ground. Repeat as necessary to maintain control Do not graze or cut vines for hay or forage	
	Silver Spotted Shipper (except CA)	1:6		
	Stink bugs Armyworms Threecornered alfalfa hopper Corn Earworm	T to 1/a lbs		
Peanuts	Grasshoppers	- to ≪iib	Apply in water at 10 to 50 gals 1	14 foldigging)
	Thrips	∛o to 1 ib	spray per acre by ground or in 5 to 10 gals spray per acre by air	
	Corn earworm fail armyworm Leafhoppers Loopers Velvetbean caterpillar	1 to t⊬a bbs	Begin applications when insects first appear and repeat as needed to maintain control. Do not feed treated forage or hay to fivestock or allow animals to graze treated areas.	

l applications may cause slight tip or feed hay to lactating dairy cattle within 21 days after application. Remove meet animals from treated areas et least 1 day before sleughter if they were present at application or grazed treated areas within 21 days after application. around the mound.

SPECIALTY HSES

Crops	Insects	Amount ORTHENE 75 S Per Acre	Further Use Instructions
Non-Crop Areas (field borders, fencerows, roadsides, dichbanks and borrow pits)	Grasshoppers	⅓ lb. (25 lb. active ingredient)	For early to mid-season application to grasshoppers in field borders, fencerow roadsides, dichbanks, 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 whis spraying heavier foliage. Do not graze feed vegetation cut from treated areas.

_Creps	Insects	Amount ORTHENE 75 S Per Acre	Further Use Instructions
lon-Crop Areas	Imported Fire Ants	Mound Transment— Dry Method: Eventy distribute 1 to 2 teaspoons over the mound. Drench Hethod: Mix 1 oz. in 5 gals. of water. Apply 1 gal. of mix to each mound area by sprinking the mound until it is wet and treat a four 14) foot damater circle around the mound.	For best results apply the material in the early morning or late aftermon when the ents 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.

Plants	Insects	Amount ORTHENE 75 S Per 100 Gals.	Time of Application	Recommended Application
Container Grown Nursery Stock (Arbor- vitee Azelea Camelia Rhododen- dron Roses Viburnum Yew)	Black Vine Weevil Strawberry Root Weevil	1 łb. {16 oz.}	Application should be made by mid- September for green- house stock and by mid-October for out- door stock. Consult your local county extension agent for information on the identification and control of foot weevils on ornamentals.	Apply the specified amount of ORTHENE 75 S Soluble Powder (100 gals. of solution so as to thoroughly dranch the root syste
1000	Imported Fire Ants	1 fb. {16 oz.)	Apply as needed to control the pest.	

SMALL SPRAY EQUIPMENT

Propagation of ORTHENE Spray Mix using a 16 oz. Measuring Cup. Equivalent ORTHENE in 20 Gals. Water* Equivalent ORTHERE in 1 Gal. Water (tsp./Ga Label Recommendation ORTHENE in 100 Gals. Water 2-1 2 oz 5 az 7-1-2 oz 10 oz 1:3 lb 2:3 lb 116 1-1/3 lbs *Use in 16 oz measuring cup

TREES AND SHRUBS					
Plants	insects	Amount ORTHENE 75 S Per 190 Gals	Time of Application	Recommended Application	
Trees and Shrubs iexcept Flowering Crab- abple. see belowl	Aphids Bagworms Birch Leatminer Tent Caterpiliar* Lace Bugs Leatrollers	1/3 lb (5 3 oz .	As the insects begin to appear	Apply the specified amount of ORTHENE 75 S Soluble Powd 100 gals water with hydrau sprayer. The addition of the stacker improves control of Grand Arthurae. "Mist plower application. Ac	
	Douglas Fir Tussock Moth Larvae Gypsy Moth Larvae* Webworms	7 3 lb (10 5 oz)	As the issues begin to appear	rites to 1.13 lbs. pur. 01 rols. viater for Gypsy Moth control a 1.0 lb. per 100 gals, wuter for fe Caterpillar control. To not apply to nuclear a Ba	
	Scales (Crawlers)	2/3 lb (10 5 oz.)	As crawlers begin to appear Repeat applications, at a 2 week or more interval, may be necessary when a there is continuous crawler profilms a	of Gread, Cottonwood, Lon's Pc plan and Viburnum susper Nursery crops defore treating plantings, spray or y a plants and observe two weel phytotoxicity	
Trees and Shrubs	Ponderosa Pine Needle Miner	2 3 lb (10 5 oz)	Time of application is important Consult (*) your farm Advisor or County Extension Agent	Apply the specified amount of CREMENE 75 S Solubie i owder 100 gals, water with a hydraulic sprayer as a fill coverage spra	
	Grasshoppers	2/3 lb (10 5 oz)	As the grasshoppers begin to appear		

rauny- sandra Peony Roses Sedum Statice S.raw- flower Yarrow Zinnia				burn or marginal lear recross on some varieties. Test on a few plants to determine varietal susceptibility.
Roses Boston Ivy	Japanese Beetle	1-1/3 ibs. (21.3 ez.)	As the Japanese Beetles begin to appear. Repeat applications at 2 week intervals may be necessary.	

GREENHOUSE FLORAL AND FOLIAGE PLANT CROPS

Plants	Insects	Amount DRTHENE 75 S Por 100 Galo.	Time ul Application	Recommended Application
Roses	Leafrollers	34 to 1 lb. (10.5 to 18 oz.)	As leafrollers 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 Anthuriums Cach Poinsettia	Aphida	½ lb. (5.3 oz.)	As aphids begin to appear.	Apply the specified amount of ORTHENE 75 S Soluble Powder in
	Meslybugs Thrips Whiteflies	%16. (10.5 oz.)	As the insects begin to appear. A repeat application, at a 2 week interval, may be necessary for control of mealybugs and whiteflies.	fi00 gals, water with a hydraulic sprayer as a full coverage spray. The addition of a westing agent may be required on difficult to west foliage. Cauties: Phytoto: .city has occured on the following foliage
	Scales (Crawlers)	² 3 lb. (10 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.	plants: Bletchum gibbum, Cissus antarchea, Fricus triangularis. Fittonia verschaffethi Maranta leuconeura kerchoveana, Pachystachya lutae, Piectramthus australis. Polypodium aureus, Polystichum, Pteris ensiformis. Tolmies menziesii. Before treating large plantings spray only a few plants and observe 2 weeks for varietal phytotoxicity. Application of DRTHENE 75 S Solubla Powder on Poinsetties after bract formation may result in phytotoxicity on certain variebes.
	Sweet Potato Whitefiles (excapt CA and NY)	14-ib. (5.3 oz.) gius TAME 2.4 EC Spray (095 fl. oz. (0.2 ib. ai)	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 ft. oz./100 gals. See TAME label for instructions	For sweet potato whitefly control, apply the specified amounts of ORTHERE 75 S Soluble Powder plus TAME 2.4EC Spray as a tank mix at a volume necessary to obtain good coverage. Follow the TAME label for specific instructions on the alternason of TAME plus ORTHERE and TAME alone and the rotation instructions to avoid potential resistance.
Roses Carnations Chrysan- themums	Aphids Thrips	3/3 lb. (10 5 oz.)	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 ORTHENE 75.5 Soluble Powder in 100 gels. water with a hydraulic sprayer as a full coverage spray. Do not apply more often than once every 28 days to Carnations and Chrysenthemums.
				Caetien: Phytotoxicay has occured on the following Chrysanthemum varieties: Albatross, Bonnie Jean, Dixie, Garland, Gem. (coberg, Pride, Showoff, Statesman, Tally Ho, Westwerd Ho, and Wild Honey Before treating large Chrysanthemum plantings, spray only a few plants and observe two weeks for varietial 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 craps the coal rendered write 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.

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