

Reg # 59639-26

PM-14

19910

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

30 AUG 1989

Chevron Chemical Company
c/o Valent U.S.A. Corporation
1333 North California Boulevard, Suite 600
Walnut Creek, CA 94596-0025

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Gentlemen:

Subject: Orthene 755 Soluble Powder

EPA Registration No. 239-2410

Your Label Amendment Submitted July 13, 1989

→ Transferred to 59639-26

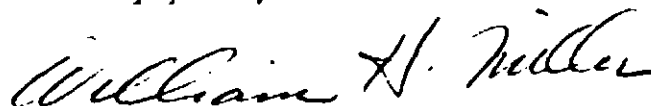
The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you submit five (5) copies of your final printed labeling incorporating the following correction before you release the product for shipment.

- On the labeling designated as "Copy C," correct the wording "Treat early late in the day . . ." to read "Treat early or late in the day"

If this condition is not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of this condition.

A stamped copy of the labeling is enclosed for your records.

Sincerely yours,



BEST AVAILABLE COPY

William H. Miller
Product Manager (16)
Insecticide-Rodenticide Branch
Registration Division (H7505C)

Enclosure

57734:I:Mautz:LM-13:KENCO:08/28/89:09/30/89:aw:VO:EK:aw

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

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(Residential & Commercial)

AGREEMENT
with COMMENTS
in EPA L...

AUG 30 1989

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

239-2418

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Transferred to
59639-26

ORTHENE 75 S Sol
Submitted: July
EPA Reg. No. 239

COPY B

Insects	Amount ORTHENE 75 S Soluble Powder Per 1,000 Sq. Ft.	Time of Application	Recommen Applica
Chinch bugs	1.2 to 2.4 oz (3-1/4 to 6-2/3 lbs per acre)	Apply as needed for adult population knockdown (10 to 14) days).	Apply to amount of 75 S Sol per 1,000 1 to 15 1,000 sq good cov
Fleas	1.2 to 2.4 oz	Apply as needed for knockdown (7 to 10 days) only of existing adult populations.	

COPY C

OUTDOOR WASP AND PERIMETER SPRAY

Location	Insects	Amount ORTHENE 75 S Soluble Powder Per Gallon	Time of Application	Recommended Application
Outdoor wasp and perimeter area.	Wasps	1.6 oz. (0.10 lbs.)	Treat early late in the day, as wasps are generally less active during these times.	Apply specified amount of ORTHENE 75 S Soluble Powder per each gallon of water used. Apply as a spot treatment to the nest, nest entrance, and surrounding areas where the wasps alight.
	Cock- roaches, Ants, Pillbugs, Earwigs, (Perimeter Treatment)	1.6 oz. (0.10 lbs.)	As the insects appear.	Apply specified amount of ORTHENE 75 S 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 entrance. Also apply as a residual spray or with a paint brush to surfaces of buildings, window frames, shutters, entry-ways, screens, eaves, patios, garages, carports, around garbage areas and other areas where these pests congregate.

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[illegible]

DIRECTIONS FOR USE
 It is a dangerous product. Use this product in a manner consistent with its intended use.
 READ ENTIRE LABEL USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS
 AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS

HEALTHY STATEMENT
Keep all unvaccinated persons out of operating areas or vicinity where there may be drift
Do not enter treated areas without protective clothing when larvae have drifted
Certain states may require more restrictive measures consult your State Department of Agriculture for further

Personnel in the community should be advised of procedures concerning any accidental exposure must be given to workers with

APPLICATIONS
Apply to Transducers only by approved irrigation systems. Do not apply by hand, sprayer or any other crop. In this case, use other type of irrigation system.

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COTTON TANK MIXES				
Crop	Insects	Amount CONTAINER FS 2 + LITERATURE OF PER ACRE	Further Mix Instructions	Days to Harvest
Cotton (CA AZ)	Alysiidiform Beltworm Colorado Leafy Cotton Aphid Cutworms Fireworms Grasshoppers Pink Bollworm Plant Bugs Lycids (Moths) Saw Worms Scorpion Thrips Tobacco Buckhorn Piercid	1/2 to 1 1/2 lbs 1 to 2 pts	Do not feed mix trash or heated waste to livestock. Do not allow mix to grow on planted area	21

Crop	Inputs	Amount APPROXIMATE PLS + PRICES - 2.5 EC Per Acre	Further Use Requirements	Days to Harvest
Cotton H. sec. CA. A. 21	Subs. Co. B. 200000	21 m 2214 m	Begin sowing seeds in 10 days or 10 days after 10 days or 10 days after 10 days or 10 days after 10 days	
			App. 10 to 15 days or 10 days after 10 days or 10 days after 10 days or 10 days after 10 days	
			Do not apply more than 10 or 10 days after 10 days or 10 days after 10 days or 10 days after 10 days	
			All components (including, water- proof and paper) must be or 10 days after 10 days or 10 days after 10 days	

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Crops	Insects	Amount ORTHENE 75 S + PYRETH 2.4 EC Per Acre	Further Use Instructions	Days to Harvest
Cotton (except CA AZ)	Tabacco Budworm Cotton Bollworm Cotton Leafworm Cotton Nettle Cotton Rootworm Cotton Stalkworm Cotton Thrips Cotton Worm Cotton Yellows	2.5 lb 2.5 to 3.0 oz	Begin applications when eggs or insects appear and apply as needed to maintain control. Apply in 3 to 5 gals. of water with hand equipment or in 10 to 25 gals. of water with ground equipment. Do not feed grain to livestock or allow animals to graze treated areas. Do not apply more than two 121 lb. active ingredient of PYRETH 2.4 EC in a growing season. All applicable directions, restrictions and precautions on the EPA registered label are to be followed.	21

COTTON SEED WORMER OR TREATMENT (EXCEPT AL 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 (Green) 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 adequate insect control. To obtain even coverage, fill planter box with seed and 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, pre-mix seed with ORTHENE 75 S Soluble Powder in a suitable container than pour treated seed into planter box. Loss of ORTHENE 75 S Soluble Powder will occur if no planter box is used. Parts from unapproved treated seed may not be suitable for seed. Do not use treated seed for food or feed purposes or process for oil.

FIELD CROPS

Crops	Insects	Amount ORTHENE 75 S Per Acre	Further Use Instructions	Days to Harvest
Peppermint Spearmint	Altamora Culex Aphis	1 to 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 lb. per acre per season.	14
Soybeans	Grasshoppers Soybean Apterous Cabbage Looper Green Cottonworm Yellowish Caterpillar Bean Leaf Beetle Mexican Bean Beetle	1 to 1.5 lbs 1 to 1.5 lbs	Apply in water at 1 to 2 gals. spray per acre by air or 10 to 20 gals. spray per acre by ground. Repeat as necessary to maintain control. Do not graze or cut vines for hay or forage.	14
Shiraz except CA	Shiraz except CA	1 lb		
Some bugs Armyworms Threehorned Aphidid Caterpillars		1 to 1.5 lbs		
Peanuts	Grasshoppers Thrips Cottonworm Armyworm Caterpillars Beetles Caterpillars	1 to 1.5 lbs 1 to 1.5 lbs 1 to 1.5 lbs	Apply in water at 10 to 50 gals. spray per acre by ground or 10 to 20 gals. spray per acre by air. Begin applications when insects first appear and repeat as needed to maintain control. Do not feed treated forage to livestock.	14 to 21 days

FRUIT CROPS

Crops	Insects	Amount ORTHENE 75 S Per Acre	Further Use Instructions	Days to Harvest
Apples	Apple Apterous Caterpillars Caterpillars	1 lb	Apply in water at 10 to 20 gals. spray per acre by ground or 10 to 20 gals. spray per acre by air. Do not apply more than 1 lb. per acre per season. Do not apply from start of bloom until berries set.	14

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SPRINKLER IRRIGATION APPLICATION TO CHAMBERLAIN
This product may only be applied through sprinkler irrigation systems including center pivot, lateral move, and low side (lateral) systems. It is not to be applied through any other type of irrigation system.
If you have questions about chamberlain, you should contact State Extension Service specialists, equipment manufacturers or other experts.
Do not connect an irrigation system including chamberlain 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 chamberlain 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 with main shut-off valve and low pressure alarm (bells) located on the irrigation system to prevent water source contamination from backflow.
The pesticide chamberlain system must contain a functional, automatic backflow check valve to prevent the flow of fluid back toward the injection pump.
The pesticide chamberlain system must contain a functional, normally closed, pressure operated valve located on the right side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply line when the irrigation system is under automatic or manual operation.
The system must contain a functional interlocking system to automatically shut off the pesticide injection pump when the water supply main stops.
The irrigation line or water pump must include a functional pressure switch which will stop the water pump 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 to ensure accurate application of the pesticide and a check valve to prevent backflow of the pesticide into the water supply.
Do not apply when wind speed favors drift toward the area intended for treatment.
Before the application, apply a specified dosage for the entire length of the irrigation system or for a 20 to 30 minute period at the end of a regular irrigation set or at a 20 to 30 minute interval at a specified rate when not preceded with a regular irrigation. Allow time for all water to flush the pesticide through all nozzles before turning off irrigation system to ensure the lines are flushed and free of remaining pesticide. A dry side may be reached and the lines to mark the end of the application period. See NOTE.
Pump Plant Systems: Inject the specified dosage per acre continuously for one complete revolution of the system for every 100 ft.
NOTE: Chamberlain system must be maintained in the chamberlain ready state during the entire period of chamberlain application. Shut the product with a positive displacement pump and the pump and shut off a right angle turn to move chamberlain ready.
Applications of more than label recommended quantities of chamberlain may cause damage to the crop and the performance by reducing the efficiency of the water supply.

		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.	Treat maximum of 13 mounds per 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 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.
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Crops	Insects	Amount ORTHENE 75 S Per Acre	Further Use Instructions	Days to Harvest
Non-Crop Areas	Imported Fire Ants	1 lb 1 lb Dry Method: Evenly distribute 1 to 2 lbs per acre 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. Grass in treated area may be injured. Do not treat mound more than once per season.	

SPECIALTY USES

Crops	Insects	Amount ORTHENE 75 S Per Acre	Further Use Instructions
Non-Crop Areas (field borders, fence rows, roadsides, ditchbanks and borrow pits)	Grasshoppers	1 lb (1.25 lb active ingredient)	For early to mid-season application to grasshoppers in field borders, fence rows, 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.

Plants	Insects	Amount ORTHENE 75 S Per 100 Gals.	Time of Application	Recommended Application
Container Grown Nursery Stock (Arbor vitae, Azalea, Camelia, Rhododendron, Roses, Viburnum, Yew)	Black Vine Weevil, Strawberry Root Weevil	1 lb (16 oz.)	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 ORTHENE 75 S Soluble Powder per 100 gals. of solution so as to thoroughly drench the root system.

SMALL SPRAY EQUIPMENT

Preparation of ORTHENE Spray Mix using a 16 oz. Measuring Cup		
Label Recommendation ORTHENE in 100 Gals. Water	Equivalent ORTHENE in 20 Gals. Water*	Equivalent ORTHENE in 1 Gal. Water (trap Gal.)
1.3 lb	2.12 oz	1
2.3 lb	5 oz	2
1 lb	2.12 oz	3
1.3 lbs	10 oz	4

*Use in 16 oz. measuring cup

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7 Aug 10

TREES AND SHRUBS

Plant	Insects	Amount ORTHENE 75 S Per 100 Gals	Time of Application	Recommended Application
Deciduous Trees	Adults Crawling Caterpillars Bugs Scallop Shells	1.0 1.0 1.0 1.0	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 surfactant improves control of leafy stem insects.
Deciduous Shrubs	Adults Crawling Caterpillars Bugs Scallop Shells	1.0 1.0 1.0 1.0	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 surfactant improves control of leafy stem insects.
Conifers	Adults Crawling Caterpillars Bugs Scallop Shells	1.0 1.0 1.0 1.0	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 surfactant improves control of leafy stem insects.
Flowering Crabapples	Adults Crawling Caterpillars Bugs Scallop Shells	1.0 1.0 1.0 1.0	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 surfactant improves control of leafy stem insects.

**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 1,000 sq ft	Time of Application	Recommended Application
Turfgrass	Adults Crawling Caterpillars Bugs Scallop Shells	1.0 1.0 1.0 1.0	As the insects begin to appear	Apply the specified amount of ORTHENE 75 S Soluble Powder in 1,000 sq ft of water with a hydraulic sprayer. The addition of a suitable surfactant improves control of leafy stem insects.
Lawn	Adults Crawling Caterpillars Bugs Scallop Shells	1.0 1.0 1.0 1.0	As the insects begin to appear	Apply the specified amount of ORTHENE 75 S Soluble Powder in 1,000 sq ft of water with a hydraulic sprayer. The addition of a suitable surfactant improves control of leafy stem insects.
Recreational Turfgrass	Adults Crawling Caterpillars Bugs Scallop Shells	1.0 1.0 1.0 1.0	As the insects begin to appear	Apply the specified amount of ORTHENE 75 S Soluble Powder in 1,000 sq ft of water with a hydraulic sprayer. The addition of a suitable surfactant improves control of leafy stem insects.

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			may be important throughout the growing season. For heavy infestations use the higher dosage rate.	Apply during late afternoon or early evening hours and after an irrigation. Do not irrigate after application.
	Ground (Schubertiana) grasshoppers	1.2 oz (1 1/3 qt per acre)	Apply when insects at first damage first appears. Repeat as necessary. Application is not to be repeated if more than 7 week intervals.	Apply the specified amount of DITHANE 75 S Soluble Powder. Use 4 quarts of water per 1000 sq ft to obtain good coverage. Do not move foliage for at least 24 hours after application.
Plants	Insects	Amount DITHANE 75 S	Time of Application	Recommended Application
Upland	Injurious Tree Aunts	Amount Specified -- Very limited. 1 quart of water per 100 sq ft to be applied over the injured area.	For best results apply the material in the early morning or late afternoon when the sun is not active.	Apply the specified amount of DITHANE 75 S Soluble Powder as directed.
		Brown Stink Bug	Application made under damaged fruit and dry conditions may be ineffective due to the retention of the pests deep within the nest.	Grass in wooded areas may be injured.
		Apply 1 qt in 5 quarts of water.		Do not treat more than once per season.
		Apply 1 gal of mix to each mature area by spraying the material until it is wet and treat a four (4) foot diameter circle around the mound.		
Plants	Insects	Amount DITHANE 75 S Per 1000 Sq Ft	Time of Application	Recommended Application
Gichondo	Common Fire Beetle Southern Armyworm White Striped Armyworm	10 to 18 or 12 7 1/2 to 5 1/2 qt per acre	As the insects appear. Repeat at 2 week intervals as necessary.	Apply the specified amount of DITHANE 75 S per 1000 sq ft. Use a minimum of 15 quarts of water per 1000 sq ft to obtain good coverage.

OUTSIDE FLORAL CROPS AND GROWING COVER

Vegetation Plowing, Grasses and Legumes Control			
Plants	Insects	Amount Orthene 75 S Per 100 Gal.	Time of Application
Danes Dahlias Easter Ivy Gladiol Gynephoria Pachy sandia Peony Roses Salsod Statice Stipa Flower Yarrow Zinnia	Aphids Thrips Fleets	2.7 lb (10.5 oz.)	As insects begin to appear. Repeat applications may be necessary
Roses Boston ivy	Japanese Beetle	1.3 lb (11.3 oz.)	As the Japanese Beetles begin to appear. Repeat applications at 2 week intervals may

GREENHOUSE FLORAL AND FOLIAGE PLANT CROPS

[illegible]

Do not apply under conditions involving possible shift to load storage or other situations that might be dangerous to the crane. Thermal transfer units for sale, use or consumption.

NOTE: This product is sold by weight and package is full when packed but due to fluffy nature of this material, it may expand in some cases.

STORAGE AND DISPOSAL

PROHIBITIONS

Do not contaminate water, food or feed by storage, disposal or cleaning of equipment.
Open drums are 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 store or transport near food or food
For more information, call 1-800-851-1111. For more information, call 1-800-851-1111. 200 3733

PESTICIDE DISPOSAL

Use and return of the product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL

Completely empty; cannot use application equipment. Do not reuse container. Dispose of empty container in a sanitary landfill or by incineration if it is allowed by State and local authorities by burning it turned over.

CONSEQUENCES OF SALE 1. Chevron Export and Chevron Import represents that this third-party contract is the chemical sale contract and is subject to the terms and conditions of the Chemical Export and Import Agreements. Any authorizations or approvals other than those made by any other authority of CHEMTRUST or ACHERMAN/ADRIATIC Corporation or representative are not binding concerning this contract.

2. Critical safety and health factors must be taken into consideration in controlling the use of chemicals in connection with the chemical sale. Chemicals must not be permitted to damage or pollute and crops and to affect the material's assigned use or to create control and damage caused by the use of other agents or crops. Such risks occur even though the product is reasonably fit for the uses labeled thereon and even though label directions are followed. Buyer and Seller agree to indemnify and hold harmless the other party from and against all claims, damages, losses, costs, expenses, and suits of this contract.

JOSEPHSON - Re: T&E of Ohio Chemical Company for Charge Ins. in section 4
VALICOTROL - Re: T&E of Ohio Chemical Co
POLYBINE - Re: T&E of E. I. du Pont de Nemours & Co. Inc. for 2,4,6-trinitrophenol