

239-2427

4-11-1979

1/4



ORTHO

ORTHENE[®] Tree & Ornamental Spray

(INSECTICIDE)

Active Ingredient	By Wt.
*Acephate (O, S-Dimethyl acetylphosphoramidothioate).....	75%
Inert Ingredients	25%
*U.S. Pat. No. 3,716,600	

CAUTION: KEEP OUT OF REACH OF CHILDREN.
See back panel for additional cautions.

NET WEIGHT 1 POUND

ACCEPTED
APR 11 1979
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under 239-2427

2/4

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



READ THE LABEL

CAUTION: Harmful if swallowed. May be irritating to the eyes. Do not breathe spray mist. Avoid eye or skin contact with spray mist. In case of eye or skin contact, flush with plenty of clear water. If eye irritation persists, see a physician.

Note to Physicians: Emergency Information - call (415) 233-3737. ORTHENE 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. Do not contaminate food or foodstuffs. 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.

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

DIRECTIONS

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

Dissolve in water and apply for control of insect pests on TREES AND SHRUBS, OUTDOOR FLORAL CROPS, and GREEN HOUSE FLORAL AND FOLIAGE PLANT CROPS. See pamphlet for specific directions on pests, host plants, rates, timing and precautions.

Do not apply to edible crops.

Also for use in accordance with the recommendations and instructions issued by the United States Department of Agriculture for quarantine programs and to be used only by or under the direction of federal/state personnel for quarantine treatments.

STORAGE AND DISPOSAL

PROHIBITIONS

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

STORAGE

Keep pesticide in original container.
Do not put concentrate or dilute into food or drink containers.
Do not store or transport near feed or food.
Store in cool, dry place.
Protect from excessive heat.

PESTICIDE DISPOSAL

Pesticide, spray mixture or rinsate that cannot be used, or chemically reprocessed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies.

CONTAINER DISPOSAL

Dispose of in an incinerator or landfill approved for pesticide containers, or bury in a safe place.

GENERAL

Consult Federal, State or Local Disposal Authorities for approved alternative procedures such as limited open burning.

CONDITIONS OF SALE: 1. Chevron Chemical Company (Chevron) warrants that this material conforms to the chemical description on the label and is reasonably fit for use as directed hereon. Chevron neither makes, nor authorizes any agent or representative to make, any other warranty of FITNESS or of MERCHANTABILITY, guarantee or representation, express or implied, concerning this material. 2. Critical and unforeseeable factors beyond Chevron's control prevent it from eliminating all risks in connection with the use of chemicals. Such risks include, but are not limited to, damage to plants and crops to which the material is applied, lack of complete control, and damage caused by drift to other plants or crops. Such risks occur even though the product is reasonably fit for the uses stated hereon and even though label directions are followed. Buyer and user acknowledge and assume all risks and liability (except those assumed by Chevron under 1 above) resulting from handling, storage, and use of this material.

Chevron Chemical Company

Ortho Division/San Francisco CA 94119 Richmond CA 94804
Product 5291 Made in U.S.A.
Form 8912-H
EPA Reg. No. 239-2427 EPA Est. 239-CA-1

3/4



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Chevron Chemical Company

Ortho Division/San Francisco CA 94119
 Richmond CA 94804
 Product 5291 Made in U.S.A.
 Form 9579-A
 EPA Reg. No. 239-2427 EPA Est. 239-CA-1

**ORTHENE TREE AND ORNAMENTAL SPRAY
TREES AND SHRUBS**

PLANTS	INSECTS	AMT. ORTHENE PER 100 GAL.	TIME OF APPLICATION	RECOMMENDED APPLICATION
Trees and Shrubs (except flowering crabapple, see below).	Aphids Bagworms Birch leafminer Tent caterpillar* Lace bugs Leafrollers	1/4 lb. (5.3 oz.)	As the insects begin to appear.	Apply the specified amount of ORTHENE in 100 gal. water with a hydraulic sprayer. The addition of a suitable sticker improves control of Gypsy moth larvae. *Mist blower application. Adjust rates to 1 1/2 lb. per 100 gal. water for Gypsy moth control and 1.0 lb. per 100 gal. water for Tent caterpillar control.
	Douglas fir tussock moth larvae Gypsy moth larvae* Webworms	3/4 lb. (10.5 oz.)	As the insects begin to appear.	Do not apply to Huckleberry, Balm of Gilead, Cottonwood, Lombardy Poplar and Viburnum suspensum.
	Scales (crawlers)	3/4 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.	Nursery crops. Before treating large plantings, spray only a few plants and observe two weeks for phytotoxicity.
Trees and Shrubs	California oakworm Cankerworms (Spring and Fall)	1/4 to 3/4 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 in 100 gal. 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 ORTHENE in 100 gal. water with a hydraulic sprayer as a full coverage spray.
Flowering crabapples	Aphids Tent caterpillars Leafrollers	1/4 lb. (5.3 oz.)	As the insects begin to appear.	Apply the specified amount of ORTHENE in 100 gal. water with a hydraulic sprayer. Do not apply more often than 3 times in a growing season at a 4-week interval. Caution: Phytotoxicity has occurred on the following crabapple varieties: Hopa, Ichonoski, Malusfloribunda, Pink Perfection, Red Wine and Snow Cloud.

OUTDOOR FLORAL CROPS

PLANTS	INSECTS	AMT. ORTHENE PER 100 GAL.	TIME OF APPLICATION	RECOMMENDED APPLICATION
Daisies Gladiolus Gypsophila Statice Yarrow Strawflower	Thrips	2/3 lb. (10.5 oz.)	As thrips begin to appear or at the tight flower bud stage. Repeat applications may be necessary.	Apply the specified amount of ORTHENE in 100 gal. water with a hydraulic sprayer as a full coverage spray.
Daisies Statice Yarrow	Lygus bugs	2/3 lb. (10.5 oz.)	As lygus bugs begin to appear. Repeat applications may be necessary.	
Roses	Aphids	2/3 lb. (10.5 oz.)	As aphids begin to appear.	

GREENHOUSE FLORAL AND FOLIAGE PLANT CROPS

PLANTS	INSECTS	AMT. ORTHENE	TIME OF APPLICATION	RECOMMENDED APPLICATION
Roses	Leafrollers	2/3 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 in 100 gal. water with a hydraulic sprayer as a full coverage spray.
Foliage Plants Orchids Anthuriums Cacti Poinsettia	Aphids	1/3 lb. (5.3 oz.)	As aphids begin to appear.	Apply the specified amount of ORTHENE in 100 gal. water with a hydraulic sprayer as a full coverage spray. The addition of a wetting agent may be required on difficult to wet foliage.
	Mealybugs Thrips Whiteflies	2/3 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.	Caution: Phytotoxicity has occurred on the following foliage plants: Bletchum gibbum, Cissus antarctica, Ficus triangularis, Fittonia verschaffeltii, Maranta leuconeura kerchoveana, Pachystachya lutea, Plectranthus australis, Polypodium aureus, Polystichum, Pteris ensiformis, Tolmiea menziesii. Before treating large plantings spray only a few plants and observe 2 weeks for varietal phytotoxicity.
	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.	
Roses Carnations Chrysanthemums	Aphids Thrips	2/3 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 in 100 gal. water with a hydraulic sprayer as a full coverage spray. Do not apply more often than once every 28 days to Carnations and Chrysanthemums. Caution: Phytotoxicity has occurred on the following Chrysanthemum varieties: Albatross, Bonnie Jean, Dixie, Garland, Gem, Iceberg, Pride, Showoff, Statesman, Tally ho, Westward ho, and Wild honey. Before treating large Chrysanthemum plantings, spray only a few plants and observe two weeks for varietal phytotoxicity.

Small (20 gal.) Spray Equipment. Preparation of ORTHENE Spray solution using an 8 oz. measuring cup.

Label Recommendation
ORTHENE in 100 gal. water
1/3 lb.
2/3 lb.
1.0 lb.

Equivalent ORTHENE
in 20 gal. water
2 1/2 oz*
5 oz*
7 oz*

*Use an 8 oz. measuring cup.