



**RESTRICTED USE PESTICIDE  
DUE TO TOXICITY TO FISH AND  
AQUATIC ORGANISMS.**

For retail sale to and use by Certified Applicators, or persons under their direct supervision, and only for those uses covered by the Certified Applicator's certification.

# T a m e<sup>®</sup>

2 . 4 E C S P R A Y  
INSECTICIDE - MITICIDE



**For Commercial Nonfood Use On  
Indoor and Outdoor Ornamental  
and Nursery Plantings**

Active Ingredient	By Wt.
*Fenpropathrin.....	30.9%
Other Ingredients.....	69.1%
Total.....	100.0%

\*alpha-Cyano-3-phenoxybenzyl  
2,2,3,3-tetramethylcyclopropanecarboxylate

Contains 2.4 pounds ai per gallon

Contains Petroleum Distillates

EPA Reg. No. 59639-77

EPA Est. 39578-TX-01

## KEEP OUT OF REACH OF CHILDREN WARNING – AVISO

SEE BELOW FOR ADDITIONAL  
PRECAUTIONARY STATEMENTS.

**Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)**

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS & DOMESTIC ANIMALS WARNING

May be fatal if swallowed. Causes substantial but temporary eye injury. Do not get in eyes, on skin, or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Harmful if inhaled. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash clothing before reuse.

#### FIRST AID

**If swallowed:** Immediately call a poison control center or doctor.

Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

#### HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact **800-892-0099** for emergency medical treatment information.

#### NOTE TO PHYSICIAN

Possible mucosal damage may contraindicate the use of gastric lavage. This product may pose an aspiration pneumonia hazard. Treatment is supportive and symptomatic. Diazepam has been recommended to reduce the CNS effects of fenpropathrin.

### PERSONAL PROTECTIVE EQUIPMENT (PPE):

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

**Applicators and other handlers must wear:** long-sleeved shirt and long pants, chemical-resistant gloves, such as Barrier Laminate or Viton ≥ 14 mils, shoes plus socks and protective eyewear.

**Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.** Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

### USER SAFETY RECOMMENDATIONS

Users should:

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

### ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish and aquatic organisms and is toxic to wildlife. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water when cleaning equipment or when disposing of equipment washwaters.

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.

### PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

### 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 LABEL PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.**

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### AGRICULTURAL USE REQUIREMENTS

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

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

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, chemical-resistant gloves, such as Barrier Laminate or Viton  $\geq$  14 mils, shoes plus socks, and protective eyewear.

### CALIFORNIA SPECIFIC REQUIREMENTS FOR GREENHOUSE HARVESTERS AND OTHER PERSONNEL WORKING WITH TREATED ORNAMENTALS

Harvesters and other personnel performing tasks with foliage contact in treated areas within fourteen (14) days of application must wear a long-sleeved shirt, long pants, and shoes plus socks.

Following treatment of ornamentals in greenhouses with the recommended rates of Tame® 2.4 EC Spray, harvesters must wear gloves for seven (7) days following application.

### ADDITIONAL RESTRICTIONS FOR USE IN NEW YORK

Do not apply this product within 100 feet of any freshwater lake, pond, river, stream or wetland in the state of New York. Do not apply this product within 100 feet of a coastal marsh or any water that drains into a coastal marsh in the state of New York.

### DISCLAIMER, RISKS OF USING THIS PRODUCT, LIMITED WARRANTY AND LIMITATION OF LIABILITY

**IMPORTANT: Read the entire Label including this Disclaimer, Risks of Using this Product, Limited Warranty, and Limitation of Liability before using this product. If the terms are not acceptable THEN DO NOT USE THE PRODUCT; rather, return the unopened product within 15 days of purchase for a refund of the purchase price.**

### RISKS OF USING THIS PRODUCT

The Buyer and User (referred to collectively herein as "Buyer") of this product should be aware that there are inherent unintended risks associated with the use of this product which are impossible to eliminate. These risks include, but are not limited to, injury to plants and crops to which this product is applied, lack of control of the target pests or weeds, resistance of the target pest or weeds to this product, injury caused by drift, and injury to rotational crops caused by carryover in the soil. Such risks of crop injury, non-performance, resistance or other unintended consequences are

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unavoidable and may result because of such factors as weather, soil conditions, disease, moisture conditions, irrigation practices, condition of the crop at the time of application, presence of other materials either applied in the tank mix with this product or prior to application of this product, cultural practices or the manner of use or application, (or a combination of such factors) all of which are factors beyond the control of Valent. The Buyer should be aware that these inherent unintended risks may reduce the harvested yield of the crop in all or a portion of the treated acreage, or otherwise affect the crop such that additional care, treatment and expense are required to take the crop to harvest. If the Buyer chooses not to accept these risks, THEN THIS PRODUCT SHOULD NOT BE APPLIED. By applying this product Buyer acknowledges and accepts these inherent unintended risks AND AGREES THAT ALL SUCH RISKS ASSOCIATED WITH THE APPLICATION AND USE ARE ASSUMED BY THE BUYER.

Valent shall not be responsible for losses or damages (including, but not limited to, loss of yield, increased expenses of farming the crop or such incidental, consequential or special damages that may be claimed) resulting from use of this product in any manner not set forth on the label. Buyer assumes all risks associated with the use of this product in any manner or under conditions not specifically directed or approved on the label.

#### **LIMITED WARRANTY**

Valent warrants only that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the label, under average use conditions, when used strictly in accordance with the label and subject to the **Risks of Using This Product as described above. EXCEPT AS SET FORTH ABOVE, VALENT MAKES NO OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED.** No agent or representative of Valent or Seller is authorized to make or create any other express or implied warranty.

#### **LIMITATION OF LIABILITY**

**In no event shall Valent or Seller be liable for any incidental, consequential, indirect or special damages resulting from the use or handling of this product. The limitation includes, but is not limited to, loss of yield on all or any portion of the treated acreage, increased care, treatment or other expenses required to take the crop to harvest, increased finance charges or altered finance ratings, emotional or mental distress and/or exemplary damages. THE EXCLUSIVE REMEDY OF THE BUYER, AND THE EXCLUSIVE MAXIMUM LIABILITY OF VALENT OR SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT,**

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**STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE RETURN OF THE PURCHASE PRICE OF THIS PRODUCT OR, AT THE ELECTION OF VALENT OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

#### **PROMPT NOTICE OF CLAIM**

Valent must be provided notice as soon as Buyer has reason to believe it may have a claim, but in no event later than twenty-one days from date of planting, or twenty-one days from the date of application, whichever is latter, so that an immediate inspection of the affected property and growing crops can be made.

If Buyer does not notify Valent of any claims, in such period, it shall be barred from obtaining any remedy.

#### **NO AMENDMENTS**

Valent and Seller offer this product, and Buyer accepts it, subject to the foregoing **Disclaimer, Risks of Using This Product, Limited Warranty and Limitation of Liability**, which may not be modified by any oral or written agreement.

#### **TANK MIXES**

**NOTICE: Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor.**

Read and follow the entire label of each product to be used in the tank mix with this product.

#### **DIRECTIONS**

**Do not apply this product using aircraft or through any type of irrigation system. Not for use in or around residential areas.**

This product is for commercial, nonfood use only. *Tame* 2.4 EC Spray is intended for the control of the indicated insects and mites on indoor ornamental plantings in greenhouses, lath and shade houses, interiorscapes, and other ornamental plants, and on outdoor ornamental and nursery plantings in commercial nurseries and other landscaped areas.

#### **Application Instructions**

Apply specified dosage in sufficient water for complete coverage. Spray all foliage including underside of leaves. Repeat as needed to maintain control, but no more often than every seven (7) days. Under severe pest pressure, use the higher recommended rates and/or shorter spray intervals. Do not use less than a seven-day retreatment interval. *Tame* 2.4 EC Spray may be tank mixed and/or alternated with many commonly used insecticides, miticides and fungicides. See recommendations for rotating sprays for Sweetpotato/Silverleaf Whitefly control. Certain strains of whiteflies may be more susceptible to a *Tame* 2.4 EC Spray plus Orthene® tank mix.

## Resistance Management

For use in resistance management programs and to aid in preventing resistance, insecticides from other classes of chemistry such as organophosphorus esters, N-methyl-carbamates, or insect growth regulators should be included with or alternated with a *Tame 2.4 EC Spray* program. *Tame 2.4 EC Spray* is a pyrethroid, and other pyrethroid products are **not** considered alternate chemistry. Consult your state or area agricultural extension service for local resistance management strategies and advice on alternate insecticides.

**Note: Since ornamental varieties are numerous, constantly changing, and may react differently to *Tame 2.4 EC Spray*, test the product on a small scale before making large-scale applications.** High gallonage applications to certain chrysanthemum varieties may result in crop injury. Do not apply to chrysanthemums and roses with open flowers. Application of the *Tame 2.4 EC Spray* plus Orthene tank mix on poinsettias after bract formation may result in phytotoxicity on certain varieties.

### SPRAY DRIFT PRECAUTIONS FOR OUTDOOR USE

*Tame 2.4 EC Spray* is extremely toxic to fish and aquatic invertebrates. Observe the following precautions when spraying outdoors in the vicinity of aquatic habitats (such as, but not limited to lakes; reservoirs; rivers; permanent streams; marshes or natural ponds; estuaries; and commercial fish ponds).

- Buffer Zone for Ground Application: Do not apply within 25 feet of the aquatic habitats (such as, but not limited to lakes; reservoirs; rivers; permanent streams; marshes; natural ponds; estuaries; and commercial fish ponds). When treating tall trees (>15 feet) from the ground with high pressure sprays or during any application with air assisted equipment (mist blowers) do not apply within 150 feet of aquatic habitats.

### Wind Directions and Speed

- Make applications when the wind velocity (approximately 3 to 10 mph) and wind direction favors on-target deposition. Do not apply when wind velocity exceeds 15 mph.
- Wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application.
- For ground boom applications, apply using a nozzle height of no more than 4 feet above the ground or crop canopy.
- For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.
- Risk of exposure to sensitive aquatic habitats can be reduced by avoiding applications when the wind direction is towards the aquatic habitats.
- Low humidity and high temperatures increase the

likelihood of spray drift to sensitive areas. Avoid spraying during conditions of low humidity and/or high temperature.

### Droplet Size

- Use only medium or coarser spray nozzles according to ASAE (S572) definition for standard nozzles. In conditions of low humidity and high temperature, applicators should use a coarser droplet size. Formation of very small droplets may be minimized by appropriate nozzle selection and by avoiding excessive spray pressure.

### Temperature Inversion

- Do not make ground applications into temperature inversions. Inversions are characterized by stable air and increasing temperatures with height above ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.
- When applying indoors, be particularly careful not to allow drift to containers or ornamental ponds containing valuable fish or invertebrates.

### Vegetative Buffer Strip

- Construct and maintain a minimum 10 foot wide vegetative filter strip of grass or other permanent vegetation between the field edge and down gradient aquatic habitat (such as, but not limited to, lakes; reservoirs; rivers; permanent streams; marshes or natural ponds; estuaries; and commercial fish ponds).
- Only apply products containing *Tame 2.4 EC Spray* onto fields where a maintained vegetative buffer strip of at least 10 feet exists between the field and down gradient habitat.
- For guidance, refer to the following publication for information on constructing and maintaining effective buffers: *Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services.* USDA, NRCS. 2000. Fort Worth, Texas. 21 pp. <http://www.in.nrcs.usda.gov/technical/agronomy/newconbuf.pdf>.

### MIXING INSTRUCTIONS

*Tame 2.4 EC Spray* mixes readily with water. When tank mixing with Orthene Turf, Tree & Ornamental Spray, first mix the recommended amount of Orthene Turf, Tree & Ornamental Spray in the appropriate amount of water, then add the *Tame 2.4 EC Spray* last. Agitate well. All applicable directions, restrictions and precautions on the Orthene EPA registered label are to be followed.

Do not exceed 0.37 fl oz formulation per 1,000 sq ft per application (equivalent to 16 fl oz per acre application) in greenhouse, shade and lath house treatments.

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.

**ORNAMENTAL SHRUBS AND PLANTS**

CROP	PESTS	TAME 2.4 EC SPRAY APPLICATION RATE		SPECIAL INSTRUCTIONS
		FL OZ PER 100 GALS	FL OZ (LB AI) PER ACRE	
Shrubs and Plants	European Red Mite Greenhouse Whitefly Lacebugs Leafhoppers Spotted Tentiform Leafminer	5-1/3 to 10-2/3	5-1/3 to 10-2/3 (0.1 to 0.2)	May be tank mixed with Orthene Turf, Tree & Ornamental Spray 1/3 lb/100 gals for greenhouse, shade and lath house use or 2/3 lb of product per acre for outdoor use.
	Southern Red Mite (low to moderate mite pressure) Two-spotted Spider Mite	8 to 16	8 to 16 (0.15 to 0.3)	
	Beet Armyworm Black Vine Weevil Adults Japanese Beetle	10-2/3	10-2/3 (0.2)	
	Mealybugs (including immature stages of the Citrus Mealybug)	16	16 (0.3)	
	Aphids	10-2/3 <i>Tame</i> 2.4 EC Spray + 1/3 to 2/3 lb Orthene Turf, Tree & Ornamental Spray	10-2/3 (0.2) <i>Tame</i> 2.4 EC Spray + 2/3 lb Orthene Turf, Tree & Ornamental Spray	
	Sweetpotato/Silverleaf Whitefly Adults and Nymphs (includes all instars and transitional stages [pupae])	Apply <i>Tame</i> 2.4 EC Spray at 10-2/3 to 16 fl oz/100 gals plus Orthene Turf, Tree & Ornamental Spray at 1/3 lb/100 gals for greenhouse and shade and lath house use. For outdoor use apply 10-2/3 to 16 fl oz per acre (0.2 to 0.3 lb ai) of <i>Tame</i> 2.4 EC Spray plus Orthene Turf, Tree & Ornamental Spray 2/3 lb per acre. Apply when adults and/or nymphs first appear. If a population of Sweetpotato/Silverleaf Whitefly is well established, use the higher <i>Tame</i> 2.4 EC Spray rate in the tank mix followed by repeat applications of the tank mix no less than seven (7) days apart. Apply no more than three (3) successive applications before rotating to a non-pyrethroid/non-organophosphate insecticide to avoid the potential for resistance. If a tolerant strain of Sweetpotato Whitefly is present, treat with EPA labeled insecticides other than <i>Tame</i> 2.4 EC Spray plus Orthene.		

**TREES**

<b>CROP</b>	<b>PESTS</b>	<b>TAME 2.4 EC SPRAY APPLICATION RATE</b>		<b>SPECIAL INSTRUCTIONS</b>
		<b>FL OZ PER 100 GALS</b>	<b>FL OZ (LB AI) PER ACRE</b>	
<b>TREES</b> Conifers Deciduous Non-deciduous Palms	European Red Mite San Jose Scale (crawlers) Spotted Tentiform Leafminer Thrips	5-1/3 to 10-2/3	5-1/3 to 10-2/3 (0.1 to 0.2)	May be tank mixed with Orthene Turf, Tree & Ornamental Spray 2/3 lb/100 gals or per acre.
	Apple Aphid Leafminer Woolly Apple Aphid	5-1/3 to 10-2/3 <i>Tame 2.4 EC Spray</i> + 1/3 lb to 2/3 lb Orthene Turf, Tree & Ornamental Spray	5-1/3 to 10-2/3 (0.1 to 0.2) <i>Tame 2.4 EC Spray</i> + 2/3 lb Orthene Turf, Tree & Ornamental Spray	Tank mix <i>Tame 2.4 EC Spray</i> 5-1/3 to 10-2/3 oz plus Orthene Turf, Tree & Ornamental Spray 1/3 lb/100 gals for greenhouse and shade and lath house use. Tank mix with 2/3 lb/acre Orthene for outdoor use.
	Southern Red Mite (low to moderate mite pressure) Two-spotted Spider Mite	8 to 16	8 to 16 (0.15 to 0.3)	May be tank mixed with Orthene Turf, Tree & Ornamental Spray 2/3 lb/100 gals or per acre.
Non-Bearing Nursery Fruit Trees	Citrus Thrips Codling Moth European Red Mite Leafrollers McDaniel Mite Orange Tortrix Pandemis Moth Tarnished Plant Bug	5-1/3	5-1/3 (0.1)	Apply beginning after petal fall or as needed. Do not apply within 6 months of fruit set that yields fruit which could be used for food or feed.
	Southern Red Mite (low to moderate mite pressure) Two-spotted Spider Mite	8 to 16	8 to 16 (0.15 to 0.3)	

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## STORAGE AND DISPOSAL

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Do not contaminate water, food or feed by storage or cleaning of equipment.

Open dumping is prohibited.

### PESTICIDE STORAGE

Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Not for use or storage in or around the home. Do not store next to feed or food, or transport in or on vehicles containing foodstuffs or feeds. Store in a cool, dry place. Protect from heat. For help with any spill, leak, fire or exposure involving this material, call day or night **800-892-0099**.

### PESTICIDE DISPOSAL

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

### CONTAINER DISPOSAL

Nonrefillable container. Do not reuse or refill the container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling, if available or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

*Tame* and *Products That Work, From People Who Care* are registered trademarks of Valent U.S.A. Corporation

Orthene is a registered trademark of OMS Investments, Inc.

Manufactured for  
**Valent U.S.A. Corporation**

P.O. Box 8025

Walnut Creek CA 94596-8025

Made in U.S.A.

Form 1214-H

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EPA Est. 39578-TX-01

Information contained in this booklet is accurate at the time of printing. Since product testing is a continuous process, please read and follow the directions on the product label for the most current directions and precautionary statements.

Always check with your state to verify state registration status or call 800-89-VALENT (898-2536).



For state registration and/or supplemental labels, please call or visit us online.

*Products That Work, From People Who Care*® | [www.valentpro.com](http://www.valentpro.com) | 800-89-VALENT (898-2536)

**Read and follow the label instructions before using.**

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