



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Mr. Scott Baker
Platte Chemical Company
P.O. Box 667
Greeley, CO 80632-0667

FEB 27 2003

Dear Mr. Baker:

Subject: Amendment - Update to match use patterns and limitations appearing on source material label [delete Leatherleaf Fern, Succulent Ornamentals (greenhouse and out-of-doors), Alfalfa (grown for forage), Sugar Beets, and Sunflower]

Thiodan 3 EC

EPA Registration Number 34704-21

Your submissions of December 12, 2002 and February 27, 2003

The amendment referred to above, submitted in connection with registration under FIFRA section 3(c)(7)(a), is acceptable and a stamped copy is enclosed for your records.

When preparing the finished label, please incorporate the following revisions:

- a. On the front panel, under the product name add "For Agricultural or Commercial Use Only" and directly under this add "Not for use or storage in or around residential sites - see DIRECTIONS FOR USE / APPLICATION DIRECTIONS for prohibited areas."
- b. In the ingredients statement, revise ACTIVE INGREDIENTS to ACTIVE INGREDIENT since there is only one.
- c. The Hazards to Humans and Domestic Animals text is incomplete. After "Fatal (poisonous) if swallowed, inhaled, or absorbed through skin." add "Corrosive. Causes irreversible eye damage." Replace "Avoid contact with skin eyes, or clothing." with "Do not get in eyes, on skin, or on clothing." Replace "Do not breathe vapor." with "Do not breathe vapor or spray mist. Do not contaminate food or feed. Keep out of reach of domestic animals. Food utensils such as measuring cups must not be used for food purposes after use in measuring pesticides."
- d. Update the Statement of Practical Treatment to the First Aid format detailed in PR Notice 2001-1. In the If Swallowed advice, be sure to add "or convulsing" after unconscious" in the last sentence of that section

- e. Revise the Note to Physician to read as follows:

NOTE TO PHYSICIAN

Endosulfan is a central nervous system stimulant absorbable by mouth, inhalation, or through contact with skin. It may cause convulsions. There is no specific antidote. Diazepam I.V. is the drug of choice. Barbituric acid derivatives such as Phenobarbital may be used additionally. A neuromuscular blocking agent may be used if convulsions persist. This type of drug may be used only if complete control of respiration can be maintained. Epinephrine derivatives are absolutely contraindicated. This product contains petroleum hydrocarbons (xylene range aromatic solvent). Care should be taken to prevent aspiration because of the possibility of chemical pneumonia or pulmonary edema due to the organic solvent in the formulation.

- f. Please refer to PR Notice 98-9 for updated pesticide respirator recommendation text to appear in the PPE listing for applicators and other handlers.
- g. Assuming that the referral "See supplemental label for directions for use in California." refers just to the "Procedures for reducing risks of contamination of aquatic ecosystems" (you did not submit the supplemental label), then this product would not be adequately labeled for use in California since that State has separate requirements related to crops, pests which can be claimed, application rates, number of applications permitted, and PHIs. If you refer to one of your competitor's labels that bears California labeling, it would show that they either elected to register a separate California label or else chose a combination label format that lists each crop twice, the first bearing directions and limitation for all states except California and the second bearing directions and limitation for use only in California. Either delete the reference to use in California and the supplemental label and add "Not for use in California", or if sale in California is intended then retain the referral which should be revised to read "This product may be use in California by following the specific crop directions indicated for use in that State plus the SUPPLEMENTAL LABEL found at the end of this label.", add the supplemental label to the back of the label, and expand the directions to include both "except CA" and "CA only directions" for each crop.
- h. Directly under the heading APPLICATION DIRECTIONS, add "Not of use or storage in or around residential sites, including, homes, non-agricultural outbuildings, non-commercial greenhouses, recreational vehicles, preschools, day care centers, and not for application to humans and pets.". Then, before the current text add "Do not use in undiluted form.". The recommendation for ground application in a minimum of 10 gallons of water per acre should add "on vegetable or row crops (unless otherwise noted)". For aerial application, the recommendation should be changed from "a minimum of 1 gallon of finished spray per acre on deciduous trees and vines" to "a minimum of 1 gallon of finished spray per acre on vegetable and field crops (unless otherwise noted) and a minimum of 20 gallons of finished spray per acre on fruit and nut trees and on vines".
- i. Delete the unsupported crops Alfalfa (grown for forage), Sugar Beets, and Sunflower.

- j. A number of crops do not have the correct current Pre-Harvest Intervals. For Cucumbers, Melons, and Summer and Winter Squash the PHIs should be 2 days rather than 0 days. For Potatoes, Sweet Corn, and Sweet Potatoes the PHIs should be 1 day rather than 0 days. For Tomatoes, the PHI should be 2 days rather than 1 day.
- k. Current Endosulfan end-use products include specified limits as to the amount of active ingredient (and of actual product) permitted on a given crop per year for all uses. These limitations, together with overall notes, such as livestock feeding prohibitions or the number of permitted applications, should appear at the end of a given crop's directions and should be set apart either as bulleted items or if you choose running text format they should be preceded by "For All Uses:". Please refer to the enclosed sample label for assistance in add these limitations for crops already approved for your product. Please do not add crops which may appear on the sample label but which are not currently approved for your product.
- l. For Barley, Oats, Rye, Wheat revise the pest entry from Army Cutworm to Armyworms, Cutworms. Change the feeding limitation to read "to livestock" rather than "to dairy animals or animals being finished for slaughter". Also, add an overall limitation to 2 applications per year.
- m. For Broccoli, etc. add an overall limitation of 4 applications per year.
- n. For Carrots, revise the overall limitation to 1 application per year.
- o. For Celery (7 day PHI) revise the overall limitation to 2 applications per year. For Celery (4 day PHI) revise the overall limitation to 1 application per year.
- p. For Cucumbers, etc. specify a limit of 6 applications per year (Note- use in California will be limited to 3 per year).
- q. For Eggplants, specify a limit of 2 applications per year (Note- use in California will be limited to 1 per year).
- r. For Peas, revise the crop entry to read "Peas (succulent, excludes seed crop)". Change the limitation to read "per year" rather than "during the fruiting period".
- s. For Peppers, add a limit of 2 applications per year.
- t. For Potatoes, add a limit of 6 applications per year.
- u. For Spinach, add "per year" to the limitation.
- v. For Strawberries, add a limit of 3 applications per year.
- w. For Sweet Corn, change the spray interval to 5 days and add a limit of 5 applications per year.

- x. For Sweet Potatoes, add a limit of 3 applications per year.
- y. For Tobacco, add a limit of 6 applications per year.
- z. For Tomatoes, add a limit of 6 applications per year.
- aa. For Apples, add a limit of 2 applications during the fruiting period and 3 applications per year (Note - use in California will be limited to 2 applications per year). Also, please note the maximum allowed rate of application is 3 1/3 qts. per acre.
- bb. For Cherry, revise the limitation to read "per year" rather than "after shuck split".
- cc. For Peaches, Apricots, and Nectarines, revise the limitation to read "per year" rather than "during the fruiting period".
- dd. For Cherry, Peach, and Plum Nursery Stock Dip, replace "Wear rubber gloves when dipping." with "**Full personal protective equipment (PPE) requirements for applicators also apply to this dipping operation.**".
- ee. For Grapes, add a limit of 3 applications per year.
- ff. For Pears, what is meant by the entry "The rate for a foliar treatment on stink bug control is 30 days"? This is especially confusing given the next sentence "Do Not apply more than once per season.". Clarify or revise the directions for this crop per the enclosed sample label. Add an overall limitation of 2 applications per year (the separate use-dependent limitations will not appear). Be sure to add the note about aerial application.
- gg. For Pecans, add a limit of 2 applications per year.
- hh. Separate the directions for use on ornamentals from the food crops and add the heading "Ornamental Trees and Shrubs (Commercially grown outdoors in nurseries only)".

Please submit 5 copies of labeling bearing the above revisions as soon as it becomes available. Thank you for your prompt cooperation in this regard.

Sincerely,

Dana R Pelitt

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George T. LaRocca
Product Manager 13
Insecticide Branch
Registration Division (7505C)

THIODAN® 3 EC

ACCEPTED
WITH COMMENTS
EPA Letter Dated
FEB 27 2003
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.
34704-21

ACTIVE INGREDIENTS:

Endosulfan (Hexachlorocyclohexa-hydromethano
2,4,3-benzodioxathiapin-3-oxide) 33.3%

INERT INGREDIENTS: 66.7%

TOTAL 100.0%

CONTAINS 3 POUNDS ENDOSULFAN PER GALLON

*This product contains xylene range aromatics.

**KEEP OUT OF REACH OF CHILDREN
DANGER POISON
PELIGRO**



United no contenido en etiquetas, busque a alguien para que se le explique a
usted en detalle. (If you do not understand this label, find someone to explain it
to you in detail.)

See below for additional precautionary statements

NOT FOR USE OR STORAGE IN OR AROUND THE HOME

EPA REG. NO. 34704-21

EPA EST. NO. 279-CA-1

NET CONTENTS 2 GALS. (7.56 L)

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Thiodan® is a Registered T.M. of Hoechst AG

EXP05Y85

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER

Fatal (poisonous) if swallowed, inhaled, or absorbed through skin. Avoid contact with skin, eyes or clothing. Do not breathe vapor.

STATEMENT OF PRACTICAL TREATMENT

If swallowed, Call a physician or Poison Control Center immediately. DO NOT INDUCE vomiting unless other treatment is not available. Vomiting may cause aspiration pneumonia. If it is necessary to induce vomiting give victim one or two glasses of water and insert finger in back of throat. Do not induce vomiting or give anything by mouth to an unconscious person.

Inhaled, Remove victim to fresh air. If victim is not breathing, give artificial respiration. Get medical attention.

If on skin, Wash affected areas with soap and water.

If in eyes, Flush with plenty of water. Call a physician immediately.

NOTE TO PHYSICIAN: Contains a light hydrocarbon solvent which presents aspiration hazard. Gastric lavage may be indicated if solvent was taken internally. This product contains endosulfan which is a central nervous system stimulant and may cause convulsions. There is no specific antidote. Barbituric acid derivatives may be used in treatment. Treat symptomatically.

Personal Protective Equipment:

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

Applicators and other handlers must wear: coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, such as barrier laminate or viton, chemical-resistant footwear plus socks, protective eyewear, chemical-resistant headgear for overhead exposure, chemical-resistant apron when cleaning equipment, mixing, or loading, and a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

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 and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering controls statements: When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets with requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

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 toxic to fish, birds, and other wildlife. Birds feeding on treated areas may be killed. Do not apply when weather conditions favor drift from treated areas. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where fish, shrimp, crab, or other aquatic life are important resources. This product must not be used in areas where impact on threatened endangered species is likely. Contact your State Fish and Game Agency before applying this product. Apply this product only as specified on the label. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Due to the risk of runoff and drift, do not apply within a distance of 300 feet of lakes, ponds, streams and estuaries. Do not apply to any area not specified on the label. Do not contaminate water by cleaning of equipment or disposal of wastes.

This pesticide is toxic to bees exposed to direct application. Applications should be timed to coincide with periods of minimum bee activity, usually between late evening and early morning.

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.

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 restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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 over long-sleeved shirt and long pants, chemical-resistant gloves, such as barrier laminate or viton, chemical-resistant footwear plus socks, protective eyewear and chemical-resistant headgear for overhead exposure.

or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container. Do not store under conditions which might adversely affect the container or its ability to function properly.

STORAGE: Do not store below temperature of 20°F. Store in safe manner. Store in original container only. Keep container tightly closed when not in use. Reduce stacking height where local conditions can affect package strength. Personnel should use clothing and equipment listed under "Personal Protective Equipment" when handling open containers.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. 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: Metal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Plastic: Triple rinse (or equivalent). Then offer for recycling

See supplemental label for directions for use in California

APPLICATION DIRECTIONS

Apply the listed amount per acre when insects first appear and repeat as required to maintain effective control. For ground application use a minimum of 10 gallons of water per acre insuring thorough coverage of the plants. Consult Extension service recommendations for concentrate spraying with this formulation. Observe use limitations. If insect control is required beyond the following use patterns, supplement the control program with other suitable pesticides. When applying this material by aircraft, mix the recommended amount with sufficient water to provide a minimum of 1 gallon finished spray per acre on deciduous trees and vines. Where more than 2 qts. of this material is recommended, mix with sufficient water to provide a minimum of finished spray equal to twice the amount of THIODAN 3 EC used. Do not plant root crops other than carrots, potatoes, sweet potatoes and sugar beets as follow-up crops. The number of days between last application and harvest is indicated by the number in () following the crop.

CHEMIGATION:

Refer to supplemental labeling entitled "APPLICATION THROUGH IRRIGATION SYSTEMS—CHEMIGATION" for use directions for chemigation. Do not apply this product through any irrigation systems unless the supplemental labeling on chemigation is followed.

CROP	PEST	DOSEAGE	REMARKS
Alfalfa, grown for forage (21)	Meadow Spittlebug	¾ qt/acre	Apply 1 week after eggs begin to hatch or when first small masses of froth are produced in the plant which is usually about the time of the alfalfa is 4 to 6 inches tall. Apply in at least 10 gals. of water per acre by ground applicator or in at least 2 gals. of water per acre by airplane. Do not spray more than once per cutting. Do not graze or cut forage within 21 days of treatment.
Barley, Oats, Rye, Wheat	Army Cutworm	¾ qt/acre	Do not apply after heads begin to form. Do not feed treated forage to dairy animals or animals being finished for slaughter. For airplane application apply in 2 gals. diesel fuel oil per acre.
Beans (3) succulent and dry (except Lima Beans)	Black Bean Aphid, Bean Leaf Skeletonizer, Cucumber Beetles, Green Stink Bug, Mexican Bean Beetle	¾ to 1 ½ qts	Do not exceed 3 applications per season. Do not feed threehings or allow livestock to graze in treated fields.
Broccoli (7), Cabbage (7), Brussels Sprouts (14), Cauliflower (14)	Cabbage Aphid, Cabbage Looper, Cross-striped Cabbage-worm, Diamondback Moth Larvae, Flea Beetle, Harlequin Bug, Imported Cabbage worm, Stink Bug, Armyworms, Cutworms	1 to 1 ½ qt.	
Carrots (7)	Green Peach Aphid	¾ - 1 ½ qts.	Do not exceed 2 applications. Do not use tops for food or feed.
Celery (7)	Green Peach Aphid	¾ qt.	No limit on the number of applications per season.
Celery (4)	Green Peach Aphid, Cabbage Looper	¾ - 1 ½ qt.	Do not exceed 3 applications.
Cucumbers (8), Melons (8), Summer & Winter Squash (8)	Aphid, Cucumber Beetles, Striped Flea Beetle, Melonworm, Pickleworm, Rindworm (on watermelon), Squash Beetle, Squash Bug, and Squash Vine Borer	¾ - 1 ½ qts.	For vine borer control, apply weekly to flower buds, stems and vines beginning when moths first appear. Rindworm is apparently a combination of feeding damage by cabbage loopers and certain other lepidopterous larvae.
Eggplants (1)	Bitter Beetle, Colorado Potato Beetle, Flea Beetle, Green Peach Aphid, Green Stink Bug, Whitefly	¾ qt.	Do not exceed 0.5 pounds active ingredient per acre.
Lettuce (14)	Cabbage Looper, Green Peach Aphid, Diamondback Moth Larvae, Imported Cabbageworm	1 - 1 ½ qts.	Do not exceed 3 applications after thinning head lettuce and remove outside leaves at harvest. Do not exceed 2 applications per season on leaf lettuce. Do not feed crop refuse to livestock.
Peas, succulent (8)	Pea Aphid, Pea Weevil	¾ - 1 ½ qts./acre	Do not exceed 2 applications during the fruiting period. Use only on peas to be harvested by combine. Do not feed treated vines to livestock or allow to graze in treated fields.
Peppers (4)*	Green Peach Aphid, Flea Beetles, Hornworms, Pepper Maggot	¾ - 1 ½ qts.	*1 day if maximum of ¾ qt/acre is applied.
Potatoes (8)	Aphids, Armyworms, Colorado Potato Beetle, Green Stink Bug, Leaf-footed Bug, Plant Bugs, Potato Flea Beetles, Potato Leafhopper, Potato Tuberworm, Whitefly	¾ - 1 ½ qts./acre	
	European Corn Borer, Potato Psyllid, False Chinch Bug	1 - 1 ½ qts./acre	
	Three-lined Potato Beetle	1 ½ qts./acre	
Spinach (21)	Crown Mite, Green Peach Aphid	1 qt.	Do not exceed one application

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Strawberries (4)	Cyclamen Mite	$\frac{1}{2}$ qt./acre in 100 gals. of water; 400 gals. water/acre	Do not apply at intervals of less than 35 days when fruit is present.
	Meadow Spittlebug, Strawberry Aphid, Tarnished Plant Bug	$1\frac{1}{2}$ qt./acre in 200 gals. of water	Do not apply at intervals of less than 15 days or more than twice during any 35 day period when fruit is present.
Sugar Beets (30)	Green Peach Aphid	$\frac{1}{2}$ to $1\frac{1}{2}$ qt.	Do not feed treated tops to livestock.
	Meadow Spittlebug	$\frac{1}{2}$ qt.	
	Sugar Beet Webworm	1 to $1\frac{1}{2}$ qt.	
Sunflower (9)	Sunflower Moth	$1\frac{1}{2}$ qt./acre	Do not exceed 3 applications. Make first application at onset of bloom and make two more applications at 4 to 7 day intervals. Do not feed treated forage to livestock.
Sweet Corn, fresh vegetable use only (9)	Corn Leaf Aphid	$1\frac{1}{2}$ qt.	Apply at 2 to 3 day intervals beginning when silks first appear and continuing until they begin to dry. Do not exceed 5 applications. Do not apply to sweet corn to be processed. Do not feed treated forage or ensilage to livestock or allow to graze in treated fields.
	Corn Earworm	2 qt.	
Sweet Potatoes (9)	Sweet Potato Flea Beetle	$\frac{1}{2}$ qt./acre	Begin applications shortly after transplanting or as soon as flea beetles appear.
	Banded Cucumber Beetle Larvae (also in control of, and for use in South Central States only)	$1\frac{1}{2}$ to $2\frac{1}{2}$ qt./acre broadcast or $\frac{1}{2}$ to $1\frac{1}{2}$ qt./acre in a 18" band over the row (48" spacing)	Work into the soil to a depth of approximately 3 inches making a single treatment just prior to plant set. Do not feed treated potatoes to livestock.
Tobacco (8)	Flea Beetle, Hornworm, Budworm, Green Peach Aphid, Cabbage Looper	FIELD: $\frac{1}{2}$ to $1\frac{1}{2}$ qt. SEED BED: Mix $\frac{1}{2}$ qt./100 gals. of water and apply @ gals. spray/100 sq. yards	
	Green June Bug Larvae	Use $\frac{1}{2}$ qt./100 gals. of water and drench plant bed with 1 gal. spray/sq. yd.	
	Stink Bug	Use field application of $1\frac{1}{2}$ to 2 qt./100 gals.	
Tomatoes (Field & Greenhouse) (1)	Blister Beetle, Colorado Potato Beetle, Flea Beetle, Green Peach Aphid	$\frac{1}{2}$ qt.	
	Hornworms	$\frac{1}{2}$ to $1\frac{1}{2}$ qt.	
	Tomato Pinworm, Tomato Fruitworm, Yellow striped Armyworm	$1\frac{1}{2}$ qt.	
	Stink Bugs	1 to $1\frac{1}{2}$ qt.	
	Cabbage Looper	1 qt.	
	Whitefly	$\frac{1}{2}$ qt./100 gals. in 100 to 200 gals. of water.	
Apples (30)	Apple Aphid, Pear Apple Aphid	$\frac{1}{2}$ qt./100 gals. of water or $2\frac{1}{2}$ to $3\frac{1}{2}$ qt./acre	Do not feed pomace from treated apples to livestock. Do not exceed 2 applications during the fruiting period. Do not feed cull fruits to animals nor allow livestock to graze treated orchards.
	Apple Rust Mite	1 pt. to $\frac{1}{2}$ qt./100 gals. of water or 1 gal. to $5\frac{1}{2}$ qt./acre	
Cherry (21)	Plum Rust Mite	$\frac{1}{2}$ qt./100 gals. or $2\frac{1}{2}$ to $3\frac{1}{2}$ qt./acre	Do not exceed 2 applications after struck split. Do not feed cull fruits to animals nor allow livestock to graze treated orchards.
	Minerola Moth (Michigan only)	$1\frac{1}{2}$ qt./100 gals. applied in delayed dormant period	
Peaches (30), Apricots (30), Nectarines (30)	Black Cherry Aphid, Rusty Plum Aphid, Black Peach Aphid, Cat facing insects, Green Peach Aphid, Peach Twig Borer	$\frac{1}{2}$ qt./100 gals. or $2\frac{1}{2}$ to $3\frac{1}{2}$ qt. per acre	Do not exceed 2 applications during fruiting period. For Lesser Peach Tree Borer, thorough wetting of trunks and main branches is important. For later application, do not apply more than twice per season. Do not feed cull fruits to animals nor allow livestock to graze treated orchards.
	Lesser Peach Tree Borer	1 qt./100 gals.	
	Peach Tree Silver Mite	$\frac{1}{2}$ qt./100 gals. or $2\frac{1}{2}$ to $3\frac{1}{2}$ qt./acre	
Plums (7), Prunes (7)	Lesser Peach Tree Borer	1 qt./100 gals. or $2\frac{1}{2}$ to $3\frac{1}{2}$ qt./acre	Apply spray to thoroughly wet trunks and main branches. Do not feed cull fruits to animals nor allow livestock to graze treated orchards.
	Peach Tree Borer	1 qt./100 gals. or $2\frac{1}{2}$ to $3\frac{1}{2}$ qt./acre	Spray thoroughly to cover all bark areas from ground to scaffold limbs. Do not feed cull fruits to animals nor allow livestock to graze treated orchards.
Cherry, Peach Plum Nursery Stock Dip	Peach Tree Borer	$2\frac{1}{2}$ qt./40 gals. of water	Thoroughly mix. Immerse the bundles of trees so that the roots and crowns are covered well above the grafting bud scar. Plant immediately, or dry before returning to storage. Wear rubber gloves when dipping.
Grapes (7)	Grape Leafhopper	$\frac{1}{2}$ qt./100 gals. or $1\frac{1}{2}$ to 2 qt./acre	Do not apply to Concord variety as severe injury is likely to occur.
	Rose Chaler	$\frac{1}{2}$ qt./100 gals.	

Pears (7)	Conspicuous Stink Bug	GROUND TREATMENT: Use 4/5 qt./100 gals. 200-400 gals./acre applied to orchard floor & ground around trees prior to bloom. FOLIAR TREATMENT: Use 4/5 qt./100 gals. or 2 1/2 to 3 1/2 qt./acre	Do not graze livestock in treated orchard. Stink Bugs must be wet to obtain control. The rate for a foliar treatment on stink bug control is 30 days. Do not apply more than once per season. Do not feed cull fruits to animals nor allow livestock to graze treated orchards.
	Pear Rust Mite	4/5 qt./100 gals.	Do not feed cull fruits to animals nor allow livestock to graze treated orchards.
	Pear Leaf Blister Mite	1/2 - 4/5 qt./100 gals. applied as a postharvest or dormant treatment.	Do not feed cull fruits to animals nor allow livestock to graze treated orchards.
	Pear Psylla	To control second generation pear psylla use 1 qt./100 gals. not to exceed 330 gals. of spray/acre	Apply when nymphs are small and repeat if necessary in 7 to 10 days. Do not exceed 2 applications during the fruiting period. Do not feed cull fruits to animals nor allow livestock to graze treated orchards.
Pistans	Black Pecan Aphid	1 qt./100 gals.	Do not apply after shuck split. Do not graze livestock on orchard crops or grasses in the treated areas.
Ornamentals (greenhouse & out of doors):	Aphids, Cyclamen Mite Whitefly, Rose Chalcid	4/5 qt./100 gals.	On chrysanthemums, best results will be obtained if applied before plants flower. Do not apply to "Bonneton Deluxe", "Fred Stearns", and "White Knight" chrysanthemums as injury may result. Do not use on birch trees.
Pines (Austrian, Jack Pine, Scotch, White) (Ornamentals only):	Zimmerman Pine Moth	1 qt./100 gals.	Apply in mid-April and again if necessary in late fall. Thoroughly wet bark and main stem, especially where branches join main stem.
Shade Trees (except Birch) Shrubs (Ornamentals only)	Aphids	4/5 qt./100 gals.	
Birch Elder: (Ornamentals only)	Birch Elder Bug	2 qt./100 gals. (2 Tbls./gal.)	Spray foliage and trunks when insects first appear. Repeat as required. In late summer or fall spray tree trunks, outside walls, fences and other places where bugs congregates.
Wood (Ornamentals only)	Dogwood Borer	4/5 to 1 1/2 qt./100 gals.	Apply in early June and repeat in 10 to 14 days. Drench all bark areas down to the ground level.
Lilac (Ornamentals only)	Lilac Borer		
Trees (Ornamentals only)	Teardrop Bud Mite	4/5 qt./100 gals.	Apply 3 to 5 applications beginning in mid-May. Thorough treatment of foliage, twigs and bark is essential.
	Black Vine Weevil	1 1/2 qt./100 gals.	Spray thoroughly and drench soil under plants. Apply when beetles first appear. Repeat in 14 days.

NOTICE

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