

34704-516

3/7/2003

1/8



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

MAR - 7 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), Almonds, Artichokes, Filberts, Macadamia Nuts, Safflower, Sugar Beets, and Sunflower]

Thiosulfan 3 EC
EPA Registration Number 34704-516
Your submission of January 5, 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.". You should then delete "RECOMMENDED FOR AGRICULTURAL USE which appears beneath the ingredients statement.
- b. The Hazards to Humans and Domestic Animals should be revised to match that appearing on your companion product Thiodan 3EC, EPA Reg. No 374704-21 (as revised by the Agency's February 27, 2003 letter). Thus, it would read:

Fatal (poisonous) if swallowed, inhaled, or absorbed through skin. Corrosive. Causes irreversible eye damage. Do not get in eyes, on skin, or on clothing. 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.

- c. Update the Statement of Practical Treatment to the First Aid format detailed in PR Notice 2001-1.

- d. 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.

- e. Please refer to PR Notice 98-9 for updated pesticide respirator recommendation text to appear in the PPE listing for applicators and other handlers.
- f. In the ENVIRONMENTAL HAZARDS, add as the third sentence "Do not apply when weather conditions favor drift from treated areas."
- g. After the ENVIRONMENTAL HAZARDS section add a new section as follows:

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

- h. As the second sentence under the heading DIRECTIONS FOR USE, add "Not for 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."
- i. Since this label does not contain specific directions for use on each crop in keeping with California regulations and since the label does not contain any California Supplemental label ("Procedures for reducing risks of contamination of aquatic ecosystems" also required for registration/use in that state) or references thereto, the label should state "This product is not intended or registered for use in California." as the third sentence under the heading DIRECTIONS FOR USE.
- j. Directly under the heading DIRECTIONS FOR DILUTION add "Do not use in undiluted form." It would be better if you used the text appearing under the heading APPLICATION DIRECTIONS (as revised by the Agency's February 27, 21003 letter) that appear on your companion product Thiodan 3EC, EPA Reg. No., 34704-21. Note the minimum gallonage for concentrate application is 10 rather than 5 and for aerial application the minimum gallonage is 20 rather than 10. You may choose to change the heading to APPLICATION DIRECTIONS since more information will be given in the new section, including information on follow-up crops.

- k. Delete the unsupported crops Alfalfa (grown for forage), Artichokes, Macadamia Nuts, Safflower, Sugar Beets, and Sunflower. Delete Almonds since the endosulfan manufacturers/data producers have not developed acceptable label directions/rates/limitations for use on this crop. Also delete Filberts, since the endosulfan manufacturers/data producers have decided to register only wettable powder endosulfan formulation for this crop.
- l. 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 and Pumpkins, the PHI should be 2 days rather than 1 day. For Peas (succulent) a 5 day PHI should be specified.
- m. 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 each 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 sample label that was included with the Agency's February 27, 2003 letter for your companion product Thiodan 3EC, EPA Reg. No. 34704-21, for assistance in adding 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. Also, do not add crop directions that the sample label indicates as "California only" (see "i", above).
- n. For Apples the maximum application should be 3 1/3 quarts per acre rather than 4 to 5 1/3. Also, add an overall limitation to 3 applications per year. Add this after the limitation to 2 applications during the fruiting period.
- o. For Barley, Oats, Rye, Wheat add an overall limitation to 2 applications per year.
- p. Revise the heading for the crop Beans to read "Beans, succulent and dry (except Lima)". Also revise the limitation to read "per year" rather than "per season".
- q. For Blueberries, add a limitation of 2 applications per year.
- r. For Broccoli, etc. add an overall limitation of 4 applications per year.
- s. For Carrots, revise the overall limitation to 1 application per year.
- t. For Celery, revise the overall limitation to 1 application per year.
- u. For Cherries, revise the limitation to 2 applications per year, rather than "after shuck split".
- v. For Citrus, revise the crop heading to "Citrus (Non-bearing Trees and Nursery Stock)" and add a limitation to 2 applications per year.

- w. For Collards, revise the limitation to read “per year” rather than “per season”.
- x. For Corn (Sweet), change the spray interval to 5 days, revise the limitation to read 3 applications per year, and revise the PHI to 1 day.
- y. For Cotton, replace “Rates up to 2 pints do not apply after 25% of bolls are open, and rates over 2 to 4 pints do not apply after bolls are open.” with just “Do not apply after bolls open.”.
- z. For Cucumbers, etc. add a limit of 6 applications per year and change from “No time limitation” to a 2-day PHI.
- aa. For Eggplants, add a limitation of 2 applications per year.
- bb. For Grapes, add a limitation of 3 applications per year.
- cc. For Kale, revise the limitation to read 1 application per year.
- dd. For Lettuce, revise the limitation to read “per year” rather than “per season”.
- ee. For Mustard Greens, revise the limitation to read “per year” rather than “per season”.
- ff. For Peaches, Nectarines, and Apricots, revise the limitation to read “2 applications per year” rather than “twice during the fruiting season”.
- gg. For Pears, replace “Do not apply within 7 days of harvest and apply no more than twice during the fruiting season, or do not apply within 21 days of harvest and no more than 5 times during the fruiting season.” with just “Do not apply within 7 days of harvest and do not make more than 2 applications per year.”. Be sure to add the Note about aerial application that appears on the sample label you received earlier.
- hh. For Peas, revise the crop entry to read “Peas (succulent)(except seed crop)”. Change the limitation to read “per year” rather than “during the fruiting season”, and add a 5 day PHI.
- ii. For Peas (Southern Field), revise the crop entry to Peas (Southern Field)(succulent type, including Black-Eyed Peas, Crowder Peas, and Southern Peas).
- jj. For Pecans, the rate should read 1 quart per 100 gallon, with a maximum 4 quart per acre per year. Also, add a limitation of 2 applications per year.
- kk. For Peppers, add a limitation of 2 applications per year.
- ll. For Pineapple, revise the limitation from “4 times per season” to “2 times per year”.
- mm. For Plums and Prunes, add a limitation of 2 applications per year.

- nn. For Potatoes, add a limitation of 6 applications per year and replace "No time limitation." with a 1-day PHI.
- oo. For Pumpkins, add a limitation of 6 application per year, and replace "Do not apply within one day of harvest." with a 2-day PHI.
- pp. For Spinach, revise the limitation to read "per year" rather than "per season".
- qq. For Strawberries, expand the rate on Cyclamen Mites to read "2 2/3 quarts per acre in 400 gallons of water". Also, add an overall limitation of 3 applications per year.
- rr. For Sweet Potatoes, replace "repeat as necessary" with a limitation of 3 applications per year. Also, add a 1-day PHI for this crop.
- ss. For Tobacco, add a limitation of 6 applications per year.
- tt. For Tomatoes, add a limitation of 6 applications per year and revise to a 2-day PHI.
- uu. For Walnuts, add a limitation of 2 applications per year.
- vv. Since the prohibition against use in domestic and other location will be added (see item "h", above) you may choose to delete "NOT FOR USE OR STORAGE IN OR AROUND THE HOME" from the end of the label.

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

ACCEPTED
with COMMENTS
by EPA Label Panel
MAR - 7 2003

Under the Federal Insecticide, Fungicide, and Herbicide Act, this pesticide is registered for use as follows:

34704-516



THIOSULFAN 3EC

ACTIVE INGREDIENT:	BY WT.
*Endosulfan (hexachlorocyclohexane-1,2,4,5,6,6-hexakis(2,4,6-trichlorophenyl) ether-3-oxide)	34.0%
INERT INGREDIENTS:	66.0%
TOTAL	100.0%

* Contains 3 pounds Endosulfan per gallon.
Contains Xylene Range Aromatic Solvent.

RECOMMENDED FOR AGRICULTURAL USE

KEEP OUT OF REACH OF CHILDREN

DANGER POISON

PELIGRO

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

EPA REG. NO. 34704-516 EPA EST. NO. 279-CA-1
NET CONTENTS 2 1/2 GALS. (9.46 L)
See Below For Additional Precautionary Statements.
4418 EXPWPS01Y98

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER

Fatal if swallowed. Causes eye damage. May be fatal if inhaled or absorbed through skin. Avoid contact with skin, eyes or clothing. Do not breathe spray mist or vapors.

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED—Call a physician or Poison Control Center immediately. Vomiting should be induced only under the direct supervision of a physician because of the risk of aspiration pneumonia. Do not induce vomiting or give anything by mouth to a person who is unconscious or convulsing.

IF INHALED—Remove victim to fresh air. Apply artificial respiration if indicated. Get medical attention.

IF ON SKIN—Wash affected areas with soap and water. Get medical attention.

IF IN EYES—Flush with plenty of water. Call a physician immediately.

NOTE TO PHYSICIAN: Thiosulfan 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 by injection 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. Solvent presents aspiration hazard. Gastric lavage is indicated if material was taken internally.

Personal Protective Equipment

Some materials that are often resistant to this product are listed below. If you wear work clothes, follow the instructions for category III on the EPA Chemical Protective Equipment Selection Chart.

Applicators and other handlers must wear coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, such as nitrile, neoprene, or butyl rubber gloves, and a chemical-resistant headgear, such as a hard hat or hood, and either an approved respirator or other approved respiratory protection approved for pesticides (MSHA/NIOSH approval number on label). (C, D, E).

Discard clothing and other absorbent materials that have been treated or heavily contaminated with this product's concentrate. Do not reuse them.

For use and product use instructions for fumigating and maintaining traps, see the label on the container. For information on the Environmental Protection Agency and other agencies, see the label on the container. Engineering controls statements: When handlers use closed systems, enclosed equipment, and other devices which prevent the release of vapors, mists, or dusts, the following information is provided for the user's reference. This information may be required or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, using tobacco, or using the toilet.
- Remove clothing immediately if plastic pellets inside. Wash them only and put them away.
- Remove PPE immediately after use and wash this product. Wash the outside of gloves before reuse. Wash as usual. Wash face, eyes, and clothing before eating.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds, and other wildlife. Birds feeding on treated areas may be killed. Do not apply directly to water, for example, surface water or ponds, or to water bodies, below the mean high water mark. Due to the risk of contamination, do not apply within 500 feet of lakes, ponds, streams and estuaries. 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 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.

DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or by drift. Only protected areas may be treated if a drift mitigation strategy has been approved by the local agricultural agency responsible for pesticide registration.

Some of the states may require the applicator to register or to obtain a permit to use this product. In some states, there are additional restrictions on the use of this product. These restrictions are listed on the label. Consult your State Department of Agriculture for further information.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with the labeling and with the Worker Protection Standard, 16 CFR part 155. The Manufacturer's label requirements for the product of which this concentrate forms a part must be followed, and none may be waived or altered. If certain requirements for this product are not listed on the label, they are waived. The instructions and exceptions pertaining to the statements on this label apply between protective equipment (PPE) and re-entry intervals. 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 a surface that has been treated, such as plants, soil, or water, is coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, such as nitrile, neoprene, or butyl rubber gloves, resistant footwear plus socks, and protective eyewear or chemical-resistant headgear for overhead exposure.

6/8

THIOSULFAN 3EC

EPA REG. NO. 34704-516

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

STORAGE: Store in a cool, well-ventilated area.

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 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 or local authorities. Plastic: Triple rinse (or equivalent). Then offer for recycling 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.

DIRECTIONS FOR DILUTION

DILUTE APPLICATION: *Ground Application:* Apply specified rate in 20 to 60 gallons of water per acre. *Orchard Application:* Apply specified rate in 100 to 600 gallons of water per acre.

CONCENTRATE APPLICATION: *Ground Application:* Apply specified rate in not less than 5 gallons of water per acre. *Orchard Application:* Apply specified rate in 20 to 100 gallons of water per acre. Special concentrate equipment is necessary for these uses.

AIR APPLICATION: Apply specified rate in 5 to 20 gallons of water per acre. Orchard rates should not be applied in less than 10 gallons of water per acre.

Do not apply this product through any type of irrigation system.

~~**Alliums:** (Grown for Forage) Meadow Spittlebug. Apply 2 1/2 pint per acre. Apply 1 week after eggs begin to hatch or when first small masses of web are produced in crevices of plants. Do not apply more than 1 application per cutting. Do not graze or cut forage within 21 days of treatment.~~

Almonds: Peach Twig Borer. Apply 2 to 3 1/4 quarts per acre. Do not make more than one application per season. For Peach Twig Borer control, apply at pink bud or petal fall and again in May using 400 to 500 gallons of spray mix per acre. Do not graze livestock on orchard crops or grasses in the treated areas.

Apples: Aphids (Apple, Rosy Apple, Woolly Apple). Apply 2 1/2 to 3 1/2 quarts per acre. Apple Rust Mite. Apply 4 to 5 1/2 quarts per acre. Do not apply within 30 days of harvest. Do not apply more than twice during fruiting period. Do not feed pomace from treated apples to livestock. Do not feed cull fruits to animals nor allow livestock to graze treated orchards.

Artichokes: Artichoke Aphid, Green Peach Aphid. Apply 1 to 1 1/2 quarts per acre. Artichoke Plume Moth. Apply 1 1/2 quarts per acre. Do not apply within 7 days of harvest.

Barley, Oats, Rye, Wheat: Armyworm, Cutworms. Apply 1 1/2 pints per acre. Do not apply after heads begin to form. Do not feed treated forage to livestock.

Beans: Black Bean Aphid, Bean Leaf Skeletonizer, Cucumber Beetle, Green Stink Bug, Mexican Bean Beetle. Apply 1 1/2 to 2 1/2 pints per acre. Western Bean Cutworm. Apply 2 1/2 pints per acre. Do not apply more than 3 times per season. Do not apply within 3 days of harvest. Do not feed treated threshings to livestock or allow livestock to graze in treated fields. Do not use on lima beans that are to be removed from the field for processing.

Bleberries: Blueberry Bud Mite. Apply 4 pints per acre, applying 300 gallons of spray mix per acre. Apply immediately after harvest and repeat 6 to 8 weeks later. Do not apply after buds are well formed.

Broccoli, Brussels Sprouts, Cabbage, Cauliflower: Cabbage Aphid, Cabbage Looper, Cross-Striped Cabbageworm, Diamond-Back Moth Larvae, Flea Beetle, Harlequin Bug, Imported Cabbageworm, Stink Bugs. Apply 2 to 2 1/2 pints per acre. Armyworm, Cutworm. Apply 2 1/2 pints per acre. Do not apply within 14 days of harvest on brussels sprouts, cauliflower and 7 days of harvest on broccoli and cabbage.

Carrots: Green Peach Aphid. Apply 1 1/2 to 2 1/2 pints per acre. Do not apply more than 2 times per season. Do not apply within 7 days of harvest. Do not use tops for food or feed.

Celery: Green Peach Aphid, Cabbage Looper. Apply 1 1/2 to 2 1/2 pints per acre. Do not apply more than 3 times per season. Do not apply within 4 days of harvest.

Cherries: Black Cherry Aphid, Plum Rust Mite. Apply 2 1/2 to 3 1/2 quarts per acre. Do not apply more than twice after shuck split. Eye-Spotted Bud Moth, Fruit Tree Leafroller (Pacific Northwest only). Apply 1 1/2 pints per acre. For Bud Moth, make application during popcorn stage of growth. For Leafroller, make application during pre-pink stage. Do not apply within 21 days of harvest. Do not feed cull fruits to animals nor allow livestock to graze treated orchards.

Citrus: Citrus Aphid. Apply 3 to 6 1/2 pints per acre. Do not apply to

bearing trees or to trees that will bear fruit within 12 months. Collards: Cabbage Looper, Diamond-Back Moth Larvae, Harlequin Bug, Imported Cabbageworm. Apply 2 pints per acre, making one application per season.

Corn (Sweet): Corn Leaf Aphid: Apply 1 1/2 quarts per acre. Corn Earworm. Apply 4 pints per acre at 2 to 3 day intervals beginning when silks first appear and continue until they become dry. For fresh vegetable use only. Do not apply to sweet corn to be processed. Do not make more than 5 applications. Do not feed forage or ensilage to livestock or allow livestock to graze in treated fields. May be applied up to day of harvest.

Cotton: Bollworm, Cabbage Looper, Lygus Bug, Cotton Stink Bug. Apply 1 1/2 quarts per acre. Thrips. Apply 2 quarts per acre. Cotton Leaf Perforator, Boll Weevil. Apply 1 1/2 to 4 pints per acre. Rates up to 2 pints do not apply after 25% of bolls are open, and rates over 2 to 4 pints, do not apply after bolls are open. Do not graze meat or dairy animals in treated fields.

Cucumbers, Melons, Summer & Winter Squash: Aphids, Cucumber Beetle, Striped Flea Beetle, Melonworm, Pickleworm, Rindworm (on watermelon), Squash Beetle, Squash Bug, Squash Vine Borer. Apply 1 1/2 to 2 1/2 pints per acre. For Vine Borer, apply weekly to flower buds, stems and vines beginning when moths first appear. Cabbage Looper, Omnivorous Leafroller. Apply 2 1/2 pints per acre. No time limitation. Eggplants: Blister Beetle, Colorado Potato Beetle, Flea Beetle, Green Peach Aphid, Green Stink Bug, White Fly. Apply 1 1/2 pints per acre. Do not apply within 1 day of harvest. Do not exceed 0.5 lbs. active ingredient Endosulfan per acre.

Filberts: Filbert Aphids, Filbert Leafroller. Apply 4 to 5 pints per acre. Do not graze livestock on orchard crops or grasses in the treated areas. No time limitation.

Grapes: Grape Leafhoppers, Rose Chafer. Apply 2 1/2 to 4 pints per acre. Do not apply to Concord grapes. Do not apply within 7 days of harvest.

Kale: Cabbage Flea Beetles, Harlequin Bug, Imported Cabbageworm. Apply 2 pints per acre. One application per season. Do not apply within 21 days of harvest.

Lettuce: Cabbage Looper, Diamond-Back Moth Larvae, Green Peach Aphid, Imported Cabbageworm. Apply 2 to 2 1/2 pints per acre. On Head Lettuce, do not apply more than 3 times after thinning, and do not apply within 14 days of harvest. Remove outside leaves at harvest. Do not feed crop waste to livestock. On Leaf Lettuce, do not make more than 2 applications per season or within 14 days of harvest.

Macadamia Nuts: Southern Green Stink Bugs. Apply 5 to 20 pints per acre. Do not graze livestock on orchard crops or grasses in the treated areas.

Mustard Greens: Aphids, Cabbage Looper, Imported Cabbageworm. Apply 2 pints per acre. Apply one application per season. Do not apply within 21 days of harvest.

Peaches, Nectarines, Apricots: Aphids (Black Cherry, Black Peach, Green Peach, Rusty Plum), Cal Facing Insects, Peach Twig Borer, Peach Silver Mite. Apply 2 1/2 to 3 1/2 quarts per acre. Lesser Peach Twig Borer. Apply 2 1/2 to 3 1/2 quarts per acre thoroughly wetting trunk and main limbs. Do not apply within 30 days of harvest. Do not apply more than twice during fruiting season. Do not feed cull fruits to animals nor allow livestock to graze treated orchards.

Pears: Conspicuous Stink Bug. Ground Treatment—Apply 1 1/2 to 2 1/2 quarts per acre to orchard floor and ground around trees. Do not make orchard floor treatment after petal fall. Do not feed cull fruits to animals nor allow livestock to graze treated orchards. Foliar Treatment—Apply 1 1/2 to 2 1/2 quarts per acre. Pear Rust Mite. Apply 2 1/2 to 3 1/2 quarts per acre. Pear Leaf Blister Mite. Apply 1 1/2 to 3 1/2 quarts as a post-harvest or dormant treatment. Pear Psylla. Apply 3 1/2 quarts per acre. Apply when adults are first observed or nymphs are small and repeat to maintain control. Do not apply within 7 days of harvest and apply no more than twice during fruiting season, or do not apply within 21 days of harvest and more than 5 times during fruiting season. Do not feed cull fruits to animals nor allow livestock to graze treated orchards.

Peas (Succulent): Pea Aphid, Pea Weevil. Apply 1 1/2 to 2 1/2 pints per acre. Do not apply more than twice during the fruiting period. Use only on peas to be harvested by a combine. Do not feed treated vines to livestock or allow to graze in treated fields.

Peas (Southern Field): Cowpea Curculio. Apply 1 1/2 to 2 1/2 pints per acre. Make 3 applications at 5 day intervals beginning when the first pods are 1/2 inch long. Do not apply within 3 days of harvest. Do not feed treated threshings to livestock or allow to graze in treated fields.

Peonies: Black Pecan Aphid. Apply 3 to 10 quarts per acre. Do not apply after shucks split. Do not graze livestock on orchard crops or grasses in the treated area.

Peppers: Flea Beetles, Green Peach Aphid, Hornworms, Pepper Maggots. Apply 1 1/2 to 2 1/2 pints per acre. Do not apply within 1 day of harvest at the 1 1/2 pint rate. Rates over 1 1/2 pints to 2 1/2 pints, do not apply within 4 days of harvest.

Pineapple: Pineapple Fruit Mite. Apply 2 1/2 quarts per acre. For fresh market use only. Do not apply more than 4 times per season. Make applications at 7 to 10 day intervals (if necessary) particularly during the 40 day bloom period. Do not apply within 7 days of harvest. Do not feed treated forage or pineapple by-products to livestock.

Plums, Prunes: Fruit Tree Leafroller (Prunes only—Pacific Northwest only). Apply 1 1/2 pints per acre during pre-pink stage of growth. Hop Aphid, Leaf Curl Plum Aphid, Peach Twig Borer, Plum Rust Mite, Thistle Aphid. Apply 2 1/2 to 3 1/2 quarts per acre. Lesser Peach Tree Borer. Apply 2 1/2 to 3 1/2 quarts per acre and thoroughly wet trunk and main branches. Do not apply within 7 days of harvest. Do not feed cull fruits to animals

7/8

8/8

THIOSULFAN 3EC

EPA REG. NO. 34704-516

nor allow livestock to graze treated orchards.

Potatoes: *Aphid, Armyworms, Colorado Potato Beetle, Green Stink Bug, Leaf Footed Plant Bug, Potato Flea Beetle, Potato Leafhopper, Potato Tuberworm, White Fly.* Apply 1 $\frac{1}{2}$ to 2 $\frac{1}{2}$ pints per acre. *European Corn Borer, Potato Psylla.* Apply 2 to 2 $\frac{1}{2}$ pints per acre. *Three-lined Potato Beetle.* Apply 1 $\frac{1}{2}$ pints per acre. No time limitation. Do not plant root crops other than carrots, potatoes, sweet potatoes or sugar beets as follow-up crops.

Pumpkins: *Aphids, Cucumber Beetles, Squash Vine Borer, Striped Flea Beetle.* Apply 1 $\frac{1}{2}$ to 2 $\frac{1}{2}$ pints per acre. For *Squash Vine Borer*, apply weekly to flower buds, stems and vines beginning when moths first appear. Do not apply within one day of harvest.

~~**Safflower:** *Green Peach Aphid.* Apply 2 $\frac{1}{2}$ pints per acre. Do not apply after flower heads open.~~

Spinach: *Crown Mite, Green Peach Aphid.* Apply 2 pints per acre. Do not apply within 21 days of harvest. Apply only once per season.

Strawberries: *Cyclamen Mite.* Apply 2 $\frac{1}{2}$ quarts per acre. Do not re-apply within 35 days when fruit is present. Do not apply within 4 days of harvest. *Meadow Spittlebug, Strawberry Aphid, Tarnished Plant Bug.* Apply 1 $\frac{1}{2}$ quarts per acre. Do not apply within 4 days of harvest. Do not re-apply within 15 days or more than twice within a 35 day period when fruit is present.

Sugar Beets: *Green Peach Aphid, Sugar Beet Webworm.* Apply 2 to 2 $\frac{1}{2}$ pints per acre. Do not apply within 30 days of harvest. Do not feed treated tops to livestock. Do not plant root crops other than carrots, potatoes as follow-up crops.

~~**Sunflower-Sunflower Mite:** Apply 2 $\frac{1}{2}$ pints per acre. Do not apply more than 2 times per season. Do not feed treated forage to livestock. Make first application at onset of bloom and make two more applications at 7-day intervals.~~

Sweet Potatoes: *Sweet Potato Flea Beetle.* Apply 1 $\frac{1}{2}$ pints per acre. Apply shortly after transplanting or as soon as Flea Beetles appear. Repeat as necessary.

Tobacco (Field): *Cabbage Looper, Green Peach Aphid, Tobacco Budworm, Tobacco Flea Beetle, Tobacco Hornworm.* Apply $\frac{1}{2}$ to 1 $\frac{1}{2}$ quarts per acre. Do not apply within 5 days of harvest.

Tomatoes (Field & Greenhouse): *Blister Beetles, Colorado Potato Beetle, Flea Beetle, Green Peach Aphid.* Apply 1 $\frac{1}{2}$ pints per acre. *Hornworm, White Fly.* Apply 1 $\frac{1}{2}$ to 2 $\frac{1}{2}$ pints per acre. *Tomato Russet Mite, Tomato Fruitworm, Yellow-Striped Armyworm.* Apply 2 $\frac{1}{2}$ pints per acre. *Stink Bugs.* Apply 2 to 2 $\frac{1}{2}$ pints per acre. *Cabbage Looper.* Apply 2 pints per acre. Do not apply within one day of harvest.

Walnuts: *Walnut Aphid.* Apply 4 to 6 pints per acre. Do not apply after husks split. Do not graze livestock on orchard crops or grasses in the treated areas.

NOT FOR USE OR STORAGE IN OR AROUND THE HOME.

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