

FEB 22 1999

Ms. Luz Chan  
Drexel Chemical Company  
P.O. Box 13327  
Memphis, TN 38113-0327

Dear Ms. Chan:

Subject: Delete Alfalfa (grown for forage), Artichokes, Barley,  
Oats, Rye, Wheat, Peas (seed crop only), Safflower,  
Sugar Beets, and Sunflower  
Drexel Endosulfan 3EC  
EPA Registration Number 19713-399  
Your submission dated February 3, 1998

The amendment referred to above, submitted in connection with a registration under FIFRA sections 3(c)(7)(a), is acceptable provided that you:

1. Submit and/or cite all data or other material required for registration/reregistration of your product under FIFRA section 3(c)(5) or FIFRA section 4 when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling changes listed before you release the product for shipment bearing the amended labeling:
  - a) In the ingredients statement, add a hyphen between "3" and "oxide".
  - b) In the footnote under the ingredients statement, revise "xylene range aromatic solvents" to "xylene range aromatic solvent".
  - c) At the end of the Note to Physician add "This formula 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."

- d) Add the heading **Engineering Control Statement** above the text beginning "When handlers use closed systems..." through "...as specified in the WPS."
- e) In the Environmental Hazards text, after "...are important resources." add "Do not contaminate water by cleaning of equipment or disposal of equipment washwaters."
- f) Under the heading DIRECTIONS FOR USE, use a lower case "l" for "law".
- g) Revise the referral to the California supplemental directions to read "See California Supplemental Label (at the end of this label) for required procedure for reducing risk of contamination of aquatic ecosystems."
- h) For Apricots, Nectarines, and Peaches (21) (except CA) for control of Peachtree borers and Lesser peachtree borers add "or 2 2/3 to 3 1/3 quarts per acre" after "Use 1 quart per 100 gallons". In this same section, revise "West Coast" to read "Pacific Northwest".
- i) For Apricots, Nectarines, and Peaches (30) (except CA) for control of Aphids, etc. delete "West Coast: Do not use more than 4 quarts per acre" since this limitation is nationwide and already appears in the NOTE for this entry.
- j) For Apricots, Nectarines, and Peaches (30) (CA only) for control of Aphids, etc. delete "West Coast: Do not use more than 4 quarts per acre" since this limitation is nationwide and already appears in the NOTE for this entry.
- k) For Carrots (Except CA), revise "Make applications" to "Make application" since only one is permitted per year.
- l) For Carrots (CA only), revise "Make applications" to "Make application" since only one is permitted per year.
- m) For Celery (Except CA), revise "Make applications" to "Make application" since only one is permitted per year.
- n) For Celery (CA only), revise "Make applications" to "Make application" since only one is permitted per year.
- o) For Cherries (Except CA), replace the directions for control of Peachtree borers and Lesser peachtree borers with the following: "Use 1 quart per 100 gallons or 2 2/3 to 3 1/3 quarts; Pacific Northwest: Use 2/3 to 1 quart per 100 gallons. Best control is obtained with a single application

post-harvest during the first week of September. Spray all bark areas from ground level to lower scaffold limbs.

- p) For Cherry, Peach, Plum Nursery Stock Dip, add the following as the first sentence of the NOTE: "Full Personal Protective Equipment (PP) requirements for applicators also apply to this dipping operation.
- q) For Collards (Except CA), revise "Make applications" to "Make application" since only one is permitted per year.
- r) For Collards (CA only), revise "Make applications" to "Make application" since only one is permitted per year.
- s) For Grapes, in the NOTE revise "severe injury" to "severe plant injury".
- t) For Kale, revise "Make applications" to "Make application" since only one is permitted per year. Also, you might want to revise "more than 1 application" to "more than one application" for consistency with most of the label where a single application is recommended.
- u) For Mustard Greens (Except CA), revise "Make applications" to "Make application" since only one is permitted per year. Also, you might want to revise "more than 1 application" to "more than one application" for consistency with most of the label where a single application is recommended.
- v) For Mustard Greens (CA only), revise "Make applications" to "Make application" since only one is permitted per year. Also, you might want to revise "more than 1 application" to "more than one application" for consistency with most of the label where a single application is recommended.
- w) For Pears (Except CA), for control of Pear leaf blister mites revise "Apply as a post harvest" to read "Apply to trees as a post harvest".
- x) For Pears (Except CA), for control of Pear leaf blister mites revise "Apply as a post harvest" to read "Apply to trees as a post harvest".
- y) For Pears (CA only), for control of Pear leaf blister mites revise "Apply as a post harvest" to read "Apply to trees as a post harvest".
- z) For Pecans (Except CA) capitalize the "S" of "Spittlebugs" for consistency with the other pest names on this label.

- aa) For Plums, replace the current separate directions for Peachtree borer and Lesser Peachtree borer with the following consolidated directions:

Peachtree borers, Lesser peachtree borers: Use 1 quart per 100 gallons or 2 2/3 to 3 1/3 quarts; Pacific Northwest: Use 2/3 to 1 quart per 100 gallons. Best control is obtained with a single application post-harvest during the first week of September. Spray all bark areas from ground level to lower scaffold limbs.

- bb) For Spinach (Except CA), revise "Make applications" to "Make application" since only one is permitted per year. Also, you might want to revise "more than 1 application" to "more than one application" for consistency with most of the label where a single application is recommended.
- cc) For Spinach (CA only), revise "Make applications" to "Make application" since only one is permitted per year. Also, you might want to revise "more than 1 application" to "more than one application" for consistency with most of the label where a single application is recommended.
- dd) For Strawberries (Northwest Use Only), add the following as the first sentence of the NOTE: "Full Personal Protective Equipment (PP) requirements for applicators also apply to this dipping operation.
- ee) For Tomatoes (Field and Greenhouse) (Except CA) add "Make applications when insects appear or feeding is noticed for each of the pest group entries except the stand alone directions for Whiteflies. For that use, replace the current directions with the following: "Use 2/3 quart per 100 gallons of water. Use 100 to 200 gallons of spray per acre. Make applications when insects appear or feeding is noticed. Higher spray volumes may be necessary for thorough coverage when high Whitefly populations exist."
- ff) For Tomatoes (Field and Greenhouse) (CA only) add "Make applications when insects appear or feeding is noticed for each of the pest group entries except the stand alone directions for Whiteflies. For that use, replace the current directions with the following: "Use 2/3 quart per 100 gallons of water. Use 100 to 200 gallons of spray per acre. Make applications when insects appear or feeding is noticed. Higher spray volumes may be necessary for thorough coverage when high Whitefly populations exist."

gg) For Walnuts, replace "Use 2 to 3 1/3 quarts per acre" with "Use 2 to 2 2/3 quarts per acre. Apply in a minimum of 100 gallons of water per acre."

hh) For Dogwood, Lilac (Except CA), do not break the number "1 1/3" at the end of a line; please relocate "(1 1/3" down to the next line.

3. Submit three (3) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

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

Sincerely,

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

Marked copy

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# Endosulfan 3EC

Insecticide

For Agricultural or Commercial Use Only

**ACTIVE INGREDIENT:**

Endosulfan\* (Hexachlorohexahydromethano-2,4,3-benzodioxathiepin-3 oxide) ..... 34.0%

**OTHER INGREDIENTS:\*\*** ..... 66.0%

**TOTAL:** ..... 100.0%

\*This product contains 3 pounds of endosulfan per gallon.

\*\*Contains xylene range aromatic solvents.

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**  **PELIGRO**  
**POISON**  **VENENO**

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.)

**See First Aid Below**  
**SHAKE WELL BEFORE USING**

EPA Reg. No. 19713-399

EPA Est. No. 19713-GA-1

Net Contents: \_\_\_\_\_

**FIRST AID**

**IF SWALLOWED:** Call a physician or Poison Control Center immediately. If possible, vomiting should be induced under medical supervision. Drink one or two glasses of water and induce vomiting by giving one (1) ounce of syrup of ipecac, if available, or by touching the back of the throat with finger. 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:** Remove contaminated clothing and wash skin with soap and water. Get medical attention.

**IF IN EYES:** Flush eyes with plenty of water. Call a physician immediately.

**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.

For Medical Emergencies call Poison Control Center or nearest Hospital. For 24-hour Non-Medical Emergency Assistance call CHEMTREC AT (800) 424-9300.

ACCEPTED  
with COMMENTS  
by EPA Letter dated

FEB 22 1999

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended by the Federal Insecticide, Fungicide, and Rodenticide Act

19713-399

**PRECAUTIONARY STATEMENTS**

**Hazards to Humans and Domestic Animals**

**DANGER:** Fatal if swallowed. Corrosive. Causes irreversible eye damage. Do not get in eyes, on skin or on clothing. May be fatal if absorbed through skin. Do not breathe vapor or spray mist. Do not contaminate food or feed. Keep out of reach of domestic animals. Food utensils such as teaspoons or measuring cups must not be used for food purposes after use in measuring pesticides.

**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: Coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, such as Barrier Laminate or Viton  $\geq$  14 mils., chemical-resistant footwear plus socks, protective eyewear, chemical-resistant headgear for overhead exposure, 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). Add a chemical-resistant apron when cleaning equipment, mixing or loading.

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. When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the 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:** 1) Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. 2) Remove clothing immediately if pesticide gets inside. 3) 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 directly to water, to areas where surface water is present, or to riparian 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. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where fish, shrimp, crab and 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 this label. 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.

Manufactured By:

**Drexel Chemical Company**

P.O. BOX 13327, MEMPHIS, TN 38113-0327



• 386P-1297  
ENDOSULFAN 3EC Page 1 of 6

ENGINEERING  
CTL STA 1

WASH-XXXXX

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**PHYSICAL OR CHEMICAL HAZARDS**

Do not use, pour, spill 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, 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.

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for entry into 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 Laminates or Viton  $\geq$  14 mil., protective eyewear, chemical-resistant footwear plus socks and chemical-resistant headgear for overhead exposure.

See California Supplemental Label for required procedures for reducing risk of contamination of aquatic ecosystems.

**CHIEMIGATION STATEMENT**

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

**GENERAL INSTRUCTIONS**

Not for use or storage in or around the home. Do not use in undiluted form. Apply the listed amount per acre when insects first appear and repeat as required, unless otherwise noted, to maintain effective control. Use in sufficient water for thorough coverage of listed crops, unless otherwise noted. Coverage of upper and lower leaf surfaces is essential for good control. For ground application, apply recommended amount of pesticide in a minimum of 10 gallons water per acre on vegetable or row crops, unless otherwise noted. 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 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. Where more than 2 quarts of this material are recommended, mix with sufficient water to provide a minimum of finished spray equal to twice the amount of ENDOSULFAN 3 EC insecticide used.

Do not plant root crops other than carrots, potatoes, sweet potatoes, and sugar beets as follow-up crops. Observe days interval between last application and harvest indicated by number in ( ) following the crop.

Observe State and Regional Restrictions and Limitations if indicated in the crop headings. (CA only) Indicates instructions specific to California. (Except CA) Indicates uses for all states excluding California. No state restrictions indicates that the use is valid in California and all other states.

**CUCUMBER (grown for storage) (21):** *mosaic virus*: Use 2/3 quart per acre. Apply one week after eggs begin to hatch or when first signs of disease of fruit are produced in the crown of the plant which is usually about the time the plants is 4 to 6 inches tall. Apply in a minimum of 10 gallons of water per acre by ground or 2 gallons of water per acre by air. NOTE: Do not graze or cut forage within 21 days of treatment. Do not apply more than once per cutting. Do not make more than 3 applications per year. Do not exceed a maximum of 0.75 pounds active ingredient (i.e., 1 quart per acre per year).

**APPLES (21) (Except CA):** *Aphids (including Apple aphids, Rosy apple aphids, Woolly apple aphids), Apple rust mites, Green fruitworms, Tarnished plant bugs, Tortiform leafminers, White apple leafhoppers (first generation):* Use 2/3 quart per 100 gallons or a maximum of 3 1/3 quarts per acre. Applications made at pink and/or petal fall provide best control of Tarnished plant bugs and Green fruitworms. For best control of first generation White apple leafhoppers, apply when nymphs first appear on leaves. If necessary, prior to petal fall, use 1 quart per 100 gallons to control Apple aphids and Rosy apple aphids. For control of Tortiform leafminers make first application as soon as moth flights begin. A second application should be made 10 days later. NOTE: Do not feed pomace from treated apples to livestock. Do not feed cull fruits to animals or allow livestock to graze in treated orchards. For all uses, do not make more than 2 applications during the fruiting period. Do not make more than 3 applications per year. Do not exceed a maximum of 3.0 pounds active ingredient (i.e., 4 quarts) per acre per year.

**APPLES (30) (CA only):** *Aphids (including Apple aphids, Rosy apple aphids, Woolly apple aphids), Apple rust mites, White apple leafhoppers (first generation):* Use 2/3 quart per 100 gallons or a maximum of 3 1/3 quarts per acre. For best control of first generation White apple leafhopper, apply when nymphs first appear on leaves. If necessary, prior to petal fall, use 1 quart per 100 gallons to control Apple aphids and Rosy apple aphids. NOTE: Do not feed pomace from treated apples to livestock. Do not feed cull fruits to animals or allow livestock to graze in treated orchards. For all uses, do not make more than 2 applications per year. Do not exceed a maximum of 3.0 pounds active ingredient (i.e., 4 quarts) per acre per year.

**APRICOTS (21), NECTARINES (21), PEACHES (21) (Except CA):** *Peachtree borers, Lesser peachtree borers:* Use 1 quart per 100 gallons; West Coast: Use 2/3 to 1 quart per 100 gallons; Southeastern States: Use 2 to 3 1/3 quarts per 100 gallons. Best control is obtained with a single application post-harvest during the first week of September. Spray all bark areas from ground level to lower scaffold limbs. NOTE: Do not feed cull fruits to animals or allow livestock to graze in treated orchards. For all uses, do not make more than 2 applications per year. Do not exceed a maximum of 3.0 pounds active ingredient (i.e., 4 quarts) per acre per year.

**APRICOTS (30), NECTARINES (30), PEACHES (30) (Except CA):** *Aphids (including Black cherry aphids, Black peach aphids, Green peach aphids, Rusty plum aphids), Catering insects (Stink bug type), Green fruitworms, Peach silver mites, Peach twig borers:* Use 2/3 quart per 100 gallons or a maximum of 3 1/3 quarts per acre; West Coast: Do not use more than 4 quarts per acre. Make applications when insects appear or feeding is noticed. NOTE: Do not feed cull fruits to animals nor allow livestock to graze in treated orchards. For all uses, do not make more than 2 applications per year. Do not exceed a maximum of 3.0 pounds active ingredient (i.e., 4 quarts) per acre per year.

**APRICOTS (30), NECTARINES (30), PEACHES (30) (CA only):** *Aphids (including Black cherry aphids, Black peach aphids, Green peach aphids, Rusty plum aphids), Catering insects (Stink bug type), Peach silver mites, Peach twig borers:* Use 2/3 quart per 100 gallons or a maximum of 3 1/3 quarts per acre; West Coast: Do not use more than 4 quarts per acre. Make applications when insects appear or feeding is noticed. NOTE: Do not feed cull fruits to animals nor allow livestock to graze in treated orchards. For all uses, do not make more than 2 applications per year. Do not exceed a maximum of 3.0 pounds active ingredient (i.e., 4 quarts) per acre per year.

**ARTICHOKES (7):** *Aphids (including Artichoke aphid, Green peach aphid):* Use 1 to 1 1/3 quarts per acre. *Artichoke Plum Moth, Minutiles:* Use 1 1/3 quarts per acre. Make applications when insects appear or feeding is noticed. Apply in a minimum of 20 gallons of water per acre by ground and in a minimum of 10 gallons of water per acre by air. NOTE: For all uses, do not make more than 2 applications per year. Do not exceed a maximum of 2.0 pounds active ingredient (i.e., 2 2/3 quarts) per acre per year.

**BARLEY, OATS, RYE, WHEAT (Except CA):** *Army cutworms:* Use 2/3 quart per acre. For aerial application apply in 2 gallons of diesel fuel oil per acre. *Cereal root beetles (R, IN, M and OH only):* Use 1/3 to 2/3 quart per acre. Apply when small larvae are readily found in the field. For aerial application, use a minimum of 1 to 2 gallons of water per acre. *Aphids:* Use 2/3 to 1 quart per acre. Make application when insects appear or feeding is noticed. NOTE: Do not spray after heads begin to form. Do not feed treated forage to livestock. For all uses, do not make more than 2 applications per year. Do not exceed a maximum of 1.0 pound active ingredient (i.e., 1 1/3 quarts) per acre per year.

**BARLEY, OATS, RYE, WHEAT (CA Only):** *Army cutworms:* Use 2/3 quart per acre. *Aphids:* Use 2/3 to 1 quart per acre. Make application when insects appear or feeding is noticed. NOTE: Do not apply after heads begin to form. Do not feed treated forage to livestock. For all uses, do not make more than 2 applications per year. Do not exceed a maximum of 1.0 pound active ingredient (i.e., 1 1/3 quarts) per acre per year.

**BEANS, Succulent and Dry (Except LIMA BEANS) (3) SOUTHERN FIELD PEAS (Succulent type, including BLACK-EYED PEAS, CROWDER PEAS AND SOUTHERN PEAS) (3) (Except CA):** *Black bean aphids, Bean leaf skeletonizers, Cowpea curculionids, Cucumber beetles, Flea beetles, Green stink bugs, Leafhoppers, Mexican bean beetles:* Use 2/3 to 1 1/3 quarts per acre. *Aphids, Armyworms, Western bean cutworms, Whiteflies:* Use 1 1/3 quarts per acre. Make applications when insects appear or feeding is noticed. For control of Cowpea curculionids, make 3 applications at 5 day intervals starting when the pods are 1/2 inch long. NOTE: Do not feed treated threshings or allow livestock to graze in treated fields. Do not use on lima beans that are to be removed from the field for processing. For all uses, do not make more than 3 applications per year. Do not exceed a maximum of 3.0 pounds active ingredient (i.e., 4 quarts) per acre per year.

**BEANS, Succulent and Dry (Except LIMA BEANS) (3) SOUTHERN FIELD PEAS (Succulent type, including BLACK-EYED PEAS, CROWDER PEAS AND SOUTHERN PEAS) (3) (CA only):** *Black bean aphids, Bean leaf skeletonizers, Cucumber beetles, Flea beetles, Green stink bugs, Leafhoppers, Mexican bean beetles:* Use 2/3 to 1 1/3 quarts per acre. *Aphids, Western bean cutworms, Whiteflies:* Use 1 1/3 quarts per acre. Make applications when insects appear or feeding is noticed. NOTE: Do not feed treated threshings or allow livestock to graze in treated fields. Do not use on lima beans that are to be removed from the field for processing. For all uses, do not make more than 3 applications per year. Do not exceed a maximum of 3.0 pounds active ingredient (i.e., 4 quarts) per acre per year.

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PACIFIC  
NORTHWEST

imum of 3.0 pounds active ingredient (i.e., 4 quarts) per acre per year.

**BLUEBERRIES** (Except CA): Blueberry bud mites: Use 2 quarts per 300 gallons. Apply immediately after harvest and repeat 6 to 8 weeks later. NOTE: Do not apply after buds are well formed. Do not make more than 2 applications per year. Do not exceed a maximum of 3.0 pounds active ingredient (i.e., 4 quarts) per acre per year.

**BROCCOLI (7), BRUSSELS SPROUTS (14), CABBAGE (7), CAULIFLOWER (14)** (Except CA): Cabbage aphids, Cabbage loopers, Cross-striped cabbageworms, Diamondback moth larvae, Flea beetles, Harlequin bugs, Imported cabbageworms, Leafhoppers, Stink bugs: Use 1 to 1 1/3 quarts per acre. Armyworms, Cutworms, Whiteflies: Use 1 1/3 quarts per acre. Make applications when insects appear or feeding is noticed. NOTE: For all uses, do not make more than 4 applications per year. Do not exceed a maximum of 3.0 pounds active ingredient (i.e., 4 quarts) per acre per year.

**BROCCOLI (7), BRUSSELS SPROUT (14), CABBAGE (7), CAULIFLOWER (14)** (CA only): Cabbage aphids, Cabbage loopers, Cross-striped cabbageworms, Diamondback moth larvae, Flea beetles, Harlequin bugs, Imported Cabbageworms, Stink bugs: Use 1 to 1 1/3 quarts per acre. Armyworms, Cutworms, Whiteflies: Use 1 1/3 quarts per acre. Make applications when insects appear or feeding is noticed. NOTE: For all uses, do not make more than 2 applications per year. Do not exceed a maximum of 2.0 pounds active ingredient (i.e., 2 2/3 quarts) per acre per year.

**CARROTS (7)** (Except CA): Green peach aphids, Leafhoppers: Use 2/3 to 1 1/3 quarts per acre. Armyworms, Flea beetles, Whiteflies: Use 1 1/3 quarts per acre. Make applications when insects appear or feeding is noticed. NOTE: Do not use tops for food or feed. For all uses, do not make more than one application per year. Do not exceed a maximum of 1.0 pound active ingredient (i.e., 1 1/3 quarts) per acre per year.

**CARROTS (7)** (CA only): Green peach aphids: Use 2/3 to 1 1/3 quarts per acre. Flea beetles, Whiteflies: Use 1 1/3 quarts per acre. Make applications when insects appear or feeding is noticed. NOTE: Do not use tops for food or feed. For all uses, do not make more than one application per year. Do not exceed a maximum of 1.0 pound active ingredient (i.e., 1 1/3 quarts) per acre per year.

**CELERY (4)** (Except CA): Green peach aphids, Cabbage loopers, Leafhoppers: Use 2/3 to 1 1/3 quarts per acre. Armyworms, Flea beetles, Whiteflies: Use 1 1/3 quarts per acre. Make applications when insects appear or feeding is noticed. NOTE: For all uses, do not make more than one application per year. Do not exceed a maximum of 1.0 pound active ingredient (i.e., 1 1/3 quarts) per acre per year.

**CELERY (4)** (CA only): Green peach aphids, Cabbage loopers: Use 2/3 to 1 1/3 quarts per acre. Flea beetles, Whiteflies: Use 1 1/3 quarts per acre. Make applications when insects appear or feeding is noticed. NOTE: For all uses, do not make more than one application per year. Do not exceed a maximum of 1.0 pound active ingredient (i.e., 1 1/3 quarts) per acre per year.

**CELERY (7)**: Green peach aphids: Use 2/3 quart per acre. Make applications when insects appear or feeding is noticed. NOTE: Do not make more than 2 applications per year. Do not exceed a maximum of 1.0 pound active ingredient (i.e., 1 1/3 quarts) per acre per year.

**CHERRIES (21)** (Except CA): Peachtree borers, Lesser peachtree borers: Use 1 quart per 100 gallons West Coast; Use 2/3 to 1 quart per 100 gallons. Thoroughly wet all bark from ground to scaffold limb. Black cherry aphids, Green fruitworms, Plum rust (nursery) mites: Use 2/3 quart per 100 gallons or 2 2/3 to 3 1/3 quarts per acre. Make applications when insects appear or feeding is noticed. Pacific Northwest Only: Eyespotted bud moth, Fruitree leafrollers: Use 2/3 quart per 100 gallons or 2 2/3 to 3 1/3 quarts per acre. For Bud moth control apply at "popcorn" stage. For Leafroller control, apply during pre-pink stage of growth. MI Only: Minidole moths: Use 1 1/3 quarts per 100 gallons. Apply in the delayed dormant period. NOTE: Do not feed cull fruits to animals or allow livestock to graze in treated orchards. For all uses, do not make more than 2 applications per year. Do not exceed a maximum of 3.0 pounds active ingredient (i.e., 4 quarts) per acre per year.

**CHERRIES (21)** (CA only): Black cherry aphids, Plum rust (nursery) mites: Use 2/3 quart per 100 gallons or 2 2/3 to 3 1/3 quarts per acre. Make applications when insects appear or feeding is noticed. Pacific Northwest Only: Eyespotted bud moth, Fruitree leafrollers: Use 2/3 quart per 100 gallons or 2 2/3 to 3 1/3 quarts per acre. For Bud moth control apply at "popcorn" stage. For Leafroller control, apply during pre-pink stage of growth. NOTE: Do not feed cull fruits to animals or allow livestock to graze in treated orchards. Do not exceed a maximum of 3.0 pounds active ingredient (i.e., 4 quarts) per acre per year.

**CHERRY, PEACH, PLUM** (Nursery Stock Dip): Peachtree borers: Use 2 2/3 quarts per 40 gallons. Mix thoroughly, immerse trees so that the roots and crowns are covered well above the grafting bud scar. NOTE: Plant immediately or dry before returning stock to storage.

**CITRUS** (Non-bearing Trees and Nursery Stock): Citrus aphids: Use 2/3 quart per 100 gallons or a maximum of 3 1/3 quarts per acre. Make applications when insects appear or feeding is noticed. NOTE: Do not apply to bearing trees or trees that will bear fruit within twelve months. Do not make more than 2 applications per year. Do not exceed a maximum of 3.0 pounds active ingredient (i.e., 4 quarts) per acre per year.

**COLLARDS (21)** (Except CA): Aphids, Cabbage loopers, Diamondback moth larvae, Fall armyworms, Flea beetles, Harlequin bugs, Imported cabbageworms, Leafhoppers: Use 1 to 1 1/3 quarts per acre. Whiteflies: Use 1 1/3 quarts per acre. Make applications when insects appear or feeding is

noticed. NOTE: For all uses, do not make more than one application per year. Do not exceed a maximum of 1.0 pound active ingredient (i.e., 1 1/3 quarts) per acre per year.

**COLLARDS (21)** (CA only): Aphids, Cabbage loopers, Diamondback moth larvae, Flea beetles, Harlequin bugs, Imported cabbageworms, Whiteflies: Use 1 quart per acre. Make applications when insects appear or feeding is noticed. NOTE: For all uses, do not make more than one application per year. Do not exceed a maximum of 0.75 pound active ingredient (i.e., 1 quart) per acre per year.

**COTTON** (Except CA) Aphids: Use 1/2 to 1 quart per acre. Boll weevils: Use 2/3 to 2 quarts per acre. Bollworms, Cabbage loopers, Cotton leafperforators, Cotton leafworms, Fleahoppers, Lygus bugs, Stink bugs, Tobacco budworms: Use 1 1/3 to 2 quarts per acre. Trips: Use 2 quarts per acre. Make applications when insects appear or feeding is noticed. For control of aphids, thorough coverage is important. NOTE: Applications may be made using ground or aerial application equipment. The higher rate should be used under heavy pest pressure. Do not apply after bolls open. Do not graze meat or dairy animals in treated fields. For all uses, do not exceed a maximum of 3.0 pounds active ingredient (i.e., 4 quarts) per acre per year.

**COTTON** (CA only) Aphids: Use 1/2 to 1 quart per acre. Boll Weevil: Use 2/3 to 2 quarts per acre. Bollworms, Cabbage loopers, Cotton leafperforators, Fleahoppers, Lygus bugs, Stink bugs: Use 1 1/3 to 2 quarts per acre. Trips: Use 2 quarts per acre. Whitefly: Use 1 1/3 quarts per acre. Make applications when insects appear or feeding is noticed. For control of aphids, thorough coverage is important. NOTE: Applications may be made using ground or aerial application equipment. The higher rate should be used under heavy pest pressure. Do not apply after bolls open. Do not graze meat or dairy animals in treated fields. For all uses, do not exceed a maximum of 3.0 pounds active ingredient (i.e., 4 quarts) per acre per year.

**CUCUMBERS (2), MELONS (2), PUMPKINS (2), SUMMER AND WINTER SQUASH (2)** (Except CA) Aphids, Cucumber beetles, Melonworms, Pickleworms, Rindworms, (on watermelons), Squash beetles, Squash bugs, Squash vine borers, Striped flea beetles: Use 2/3 to 1 1/3 quarts per acre. Cabbage loopers, Omnivorous leafrollers, Whiteflies: Use 1 1/3 quarts per acre. Make applications when insects appear or feeding is noticed. For Squash vine borer control, apply weekly to flower buds, stems and vines beginning when moths first appear. NOTE: For all uses, do not make more than 6 applications per year. Do not exceed a maximum of 3.0 pounds active ingredient (i.e., 4 quarts) per acre per year.

**CUCUMBERS (2), MELONS (2), PUMPKINS (2), SUMMER AND WINTER SQUASH (2)** (CA only) Aphids, Cucumber beetles, Melonworms, Pickleworms, Rindworms, (on watermelons), Squash beetles, Squash bugs, Squash vine borers, Striped flea beetles: Use 2/3 to 1 1/3 quarts per acre. Cabbage loopers, Omnivorous leafrollers, Whiteflies: Use 1 1/3 quarts per acre. Make applications when insects appear or feeding is noticed. For Squash vine borer control, apply weekly to flower buds, stems, and vines beginning when moth first appear. NOTE: For all uses, do not make more than 3 applications per year. Do not exceed a maximum of 3.0 pounds active ingredient (i.e., 4 quarts) per acre per year.

**EGGPLANT (1)** (Except CA) Blister beetles, Colorado potato beetles, Flea beetles, Green peach aphids, Green stink bugs: Use 2/3 to 1 1/3 quarts per acre. Whiteflies: Use 1 1/3 quarts per acre. Make applications when insects appear or feeding is noticed. NOTE: For all uses, do not make more than 2 applications per year. Do not exceed a maximum of 1.0 pound active ingredient (i.e., 1 1/3 quarts) per acre per year.

**EGGPLANT (1)** (CA only) Blister beetles, Colorado potato beetles, Flea beetles, Green peach aphids, Green stink bugs: Use 2/3 to 1 1/3 pints per acre. Whiteflies: Use 1 1/3 pints per acre. Make applications when insects appear or feeding is noticed. NOTE: For all uses, do not make more than 2 applications per year. Do not exceed a maximum of 0.5 pound active ingredient (i.e., 1 1/3 pints) per acre per year.

**GRAPES (7)** <sup>Plant</sup> Grape leafhoppers, Grape phylloxera (leaf form), Rose chafers: Use 2/3 quart per 100 gallons or 1 1/3 to 2 quarts per acre. Make applications when insects appear or feeding is noticed. NOTE: Do not use on Concord varieties as severe injury is likely occur. Ground application is preferred. Do not make more than 3 applications per year. Do not exceed a maximum of 3.0 pounds active ingredient (i.e., 4 quarts) per acre per year.

**KALE (21)** Cabbage flea beetles, Harlequin bugs, Imported cabbageworms: Use 1 quart per acre. Make applications when insects appear or feeding is noticed. NOTE: Do not make more than 1 application per year. Do not exceed a maximum of 0.75 pound active ingredient (i.e., 1 quart) per acre per year.

**LETTUCE (14)** (Except CA) Cabbage loopers, Diamondback moth larvae, Green peach aphids, Imported cabbageworms, Leafhoppers: Use 1 to 1 1/3 quarts per acre. Armyworms, Whiteflies: Use 1 1/3 quarts per acre. Make applications when insects appear or feeding is noticed. NOTE: On Head lettuce: For all uses, do not exceed 3 applications after thinning. Remove wrapper leaves at harvest. On Leaf Lettuce: For all uses, do not make more than 2 applications per



year. Do not feed crop refuse to livestock. Do not exceed a maximum of 3.0 pounds active ingredient (i.e., 4 quarts) per acre per year.

**LETTUCE (14) (CA only)**

Cabbage looper, Diamondback moth larvae, Green peach aphids, Imported cabbageworms: Use 1 to 1 1/3 quarts per acre. Whiteflies: Use 1 1/3 quarts per acre. Make applications when insects appear or feeding is noticed. NOTE: On Head Lettuce: For all uses, do not exceed 3 applications after thinning. Remove wrapper leaves at harvest. On Leaf Lettuce: For all uses, do not make more than 2 applications per year. Do not feed crop refuse to livestock. Do not exceed a maximum of 3.0 pounds active ingredient (i.e., 4 quarts) per acre per year.

**MUSTARD GREENS (21) (Except CA)**

Aphids, cabbage looper, Diamondback moth larvae, Fall armyworms, Flea beetles, Harlequin bugs, Imported cabbageworms, Leafhoppers: Use 1 to 1 1/3 quarts per acre. Whiteflies: Use 1 1/3 quarts per acre. Make applications when insects appear or feeding is noticed. NOTE: For all uses, do not make more than 1 application per year. Do not exceed a maximum of 1.0 pound active ingredient (i.e., 1 1/3 quart) per acre per year.

**MUSTARD GREENS (21) (CA only)**

Aphids, Cabbage looper, Diamondback moth larvae, Flea beetles, Harlequin bugs, Imported cabbageworms, Whiteflies: Use 1 quart per acre. Make applications when insects appear or feeding is noticed. NOTE: For all uses, do not make more than 1 application per year. Do not exceed a maximum of 0.75 pound active ingredient (i.e., 1 quart) per acre per year.

**PEARS (7) (Except CA)**

Green fruitworms, Tarnished plantbugs: Use 2/3 quart per 100 gallons or 2 2/3 to 3 1/3 quarts per acre. Make applications at white bud or petal fall when insects appear or feeding is noticed. Pear Psyllas: Use 3 1/3 quarts per acre. Apply in a minimum of 10 gallons of water for aerial application or in 300 gallons of water for dilute application. Apply when adults are first observed or nymphs are small and repeat to maintain control. Pear rust mites, Conspicuous stink bugs (foliar treatment): Use 2/3 quart per 100 gallons or 2 2/3 to 3 1/3 quarts per acre. Make applications when insects appear or feeding is noticed. Stink bugs must be wet by spray to obtain control. Conspicuous stink bugs (soil treatment): Use 2/3 quart per 100 gallons; 200 to 400 gallons per acre. Apply to orchard floor and around trees prior to bloom. Pear leaf blister mites: Use 1/3 to 2/3 quart per 100 gallons. Apply as a post harvest or dormant treatment. NOTE: Do not feed cull fruits to animals or allow livestock to graze in treated orchards. For all uses, do not make more than 2 applications per year. Do not exceed a maximum of 3.0 pounds active ingredient (i.e., 4 quarts) per acre per year. Aerial application may not result in satisfactory control and should only be employed if impossible to apply by ground.

**PEARS (7) (CA only)**

Pear Psyllas: Use 3 1/3 quarts per acre. Apply in a minimum of 10 gallons of water for aerial application or in 300 gallons of water for dilute application. Apply when adults are first observed or nymphs are small and repeat to maintain control. Pear rust mites, Conspicuous stink bugs (foliar treatment): Use 2/3 quart per 100 gallons or 2/3 to 3 1/3 quarts per acre. Make applications when insects appear or feeding is noticed. Stink bugs must be wet by spray to obtain control. Conspicuous stink bugs (soil treatment): Use 2/3 quart per 100 gallons; 200 to 400 gallons per acre. Apply to orchard floor and around trees prior to bloom. Pear leaf blister mites: Use 1/3 to 2/3 quart per 100 gallons. Apply as a post harvest or dormant treatment. NOTE: Do not feed cull fruits to animals or allow livestock to graze in treated orchards. For all uses, do not make more than 2 applications per year. Do not exceed a maximum of 3.0 pounds active ingredient (i.e., 4 quarts) per acre per year. Aerial application may not result in satisfactory control and should only be employed if impossible to apply by ground.

~~PEAS (Seed Crop Only) (1) (Except CA): Pear aphids, Pear weevils: Use 2/3 to 1 1/3 quarts per acre. Make applications when insects appear or feeding is noticed. NOTE: Use only on peas to be harvested by combine. Do not feed treated vines or threshings to livestock or allow livestock to graze in treated fields. For all uses, do not make more than 2 applications per year. Do not exceed a maximum of 1.5 pounds active ingredient (i.e., 2 quarts) per acre per year.~~

~~PEAS (Seed Crop Only) (1) (CA only): Pear aphids, Pear weevils: Use 2/3 to 1 quart per acre. Make applications when insects appear or feeding is noticed. NOTE: Use only on peas to be harvested by combine. Do not feed treated vines or threshings to livestock or allow livestock to graze in treated fields. For all uses, do not make more than 2 applications per year. Do not exceed a maximum of 1.5 pounds active ingredient (i.e., 2 quarts) per acre per year.~~

**PECANS (Except CA)**

Black pecan aphids, Pecan nut casebearer, Spittlebugs: Use 1 quart per 100 gallons. Make applications when insects appear or feeding is noticed. For Casebearer, apply when eggs of first generation appear on the tips of the young nuts. Another application may be required after the second generation of eggs are deposited. For Spittlebugs, apply when first leaves are half grown and repeat as required. Pecan leaf phylloxera: Use 2/3 to 1 quart per 100 gallons. Apply when nymphs appear and before they are enclosed in plant tissue. For high populations, use the higher rate. NOTE: Do not apply after shuck split. Do not graze livestock on orchard crops or grasses in treated areas. For all uses, do not make more than 2 applications per year. Do not exceed a maximum of 3.0 pounds active ingredient (i.e., 4 quarts) per acre per year.

**PEPPERS (1)**

Flea beetles, Green peach aphids, Hornworms, Pepper maggots: Use 2/3 quart per acre. Make applications when insects appear or feeding is noticed. NOTE: For all uses, do not make more than 2 applications per year. Do not exceed a maximum of 1.0 pound active ingredient (i.e., 1 1/3 quarts) per acre per year.

**PEPPERS (4) (Except CA)**

Armyworms, Flea beetles, Green peach aphids, Hornworms, Leafhoppers, Pepper maggots: Use 2/3 to 1 1/3 quarts per acre. Whiteflies: Use 1 1/3 quarts per acre. Make applications when insects appear or feeding is noticed. NOTE: For all uses, do not make more than 2 applications per year. Do not exceed a maximum of 2.0 pounds active ingredient (i.e., 2 2/3 quarts) per acre per year.

**PEPPERS (4) (CA only)**

Flea beetles, Green peach aphids, Hornworms, Pepper maggots: Use 2/3 to 1 1/3 quarts per acre. Whiteflies: Use 1 1/3 quarts per acre. Make applications when insects appear or feeding is noticed. NOTE: For all uses, do not make more than 2 applications per year. Do not exceed a maximum of 2.0 pounds active ingredient (i.e., 2 2/3 quarts) per acre per year.

**PINEAPPLE (For Fresh Market Only) (7)**

Pineapple fruit mites: Use 2 to 2 2/3 quarts per acre. Make applications when insects appear or feeding is noticed. Apply at intervals of 7 to 10 days if necessary, particularly during the 40 day period of blooming. NOTE: Do not feed treated forage or pineapple by-products to livestock. Do not make more than 2 applications per year. Do not exceed a maximum of 3.0 pounds active ingredient (i.e., 4 quarts) per acre per year.

**PLUMS (7), PRUNES (7)**

Fruitree leafrollers (Pacific Northwest Only): Use 2/3 quart per 100 gallons or 2 2/3 to 3 1/3 quarts per acre. Apply during pre-pink stage growth when insects appear or feeding is noticed. Aphids (including Hop aphids, Leafcurl plum aphids, Thistle aphids), Plum rust (Nursery) Mites: Use 2/3 quart per 100 gallons or 2 2/3 to 3 1/3 quarts per acre. For control of aphids, apply when eggs hatch during pre-bloom or petal fall. Summer applications should be made before leaves curl. Peach twig borers: Use 2/3 quart per 100 gallons or 2 2/3 to 3 1/3 quarts per acre. Make applications when insects appear or feeding is noticed. Lesser peachtree borers: Use 1 quart per 100 gallons or 2 2/3 to 3 1/3 quarts per acre. Apply spray to thoroughly wet the trunk and main branches. Peachtree borers: Use 1 quart per 100 gallons or 2 2/3 to 3 1/3 quarts per acre; West Coast: Use 2/3 to 1 quart per 100 gallons or 2 2/3 to 3 1/3 quarts per acre. Spray thoroughly to cover all bark areas from ground to scaffold limbs. NOTE: Do not allow livestock to graze on orchard crops or grasses in treated areas. For all uses, do not make more than 2 applications per year. Do not exceed a maximum of 3.0 pounds active ingredient (i.e., 4 quarts) per acre per year.

**POTATOES (1)**

Aphid, Armyworms, Colorado potato beetles, Green stink bugs, Leafhopper bugs, Plant bugs, Potato flea beetles, Potato leafhoppers, Potato tuberworms, Threatened potato beetles: Use 2/3 to 1 1/3 quarts per acre. European corn borers, Potato psyllids: Use 1 to 1 1/3 quarts per acre. False chinch bugs, Whiteflies: Use 1 1/3 quarts per acre. Make applications when insects appear or feeding is noticed. NOTE: For all uses, do not make more than 6 applications per year. Do not exceed a maximum of 3.0 pounds active ingredient (i.e., 4 quarts) per acre per year.

~~SPINACH: Green peach aphids, Whiteflies: Use 1 1/3 quarts per acre. Make applications when insects appear or feeding is noticed. NOTE: Do not apply after flower heads open. For all uses, do not make more than 2 applications per year. Do not exceed a maximum of 2.0 pounds active ingredient (i.e., 2 2/3 quarts) per acre per year.~~

**SPINACH (21) (Except CA)**

Armyworms, Crown mites, Flea beetles, Green peach aphids, Leafhoppers: Use 1 to 1 1/3 quarts per acre. Whitefly: Use 1 1/3 quarts per acre. Make applications when insects appear or feeding is noticed. NOTE: For all uses, do not make more than 1 application per year. Do not exceed a maximum of 1.0 pound active ingredient (i.e., 1 1/3 quarts) per acre per year.

**SPINACH (21) (CA only)**

Crown mites, Flea beetles, Green peach aphids, Whiteflies: Use 1 quart per acre. Make applications when insects appear or feeding is noticed. NOTE: For all uses, do not make more than 1 application per year. Do not exceed a maximum of 0.75 pound active ingredient (i.e., 1 quart) per acre per year.

**STRAWBERRIES (4)**

Meadow spittlebugs, Strawberry aphids, Tarnished plant bugs, Whiteflies: Use 1 1/3 quarts per acre. Make applications when insects appear or feeding is noticed. Do not reapply within 15 days or more than twice during a 35 day period when fruit is present. Cyclamen mites: Use 2 2/3 quarts per acre in 400 gallons. Make applications when insects appear or feeding is noticed. Thoroughly wet the foliage, stem and crown of the plant. For multiple applications, do not apply at intervals less than 35 days when fruit is present. NOTE: For all uses, do not make more than 3 applications per year. Do not exceed a maximum of 3.0 pounds active ingredient (i.e., 4 quarts) per acre per year.

**STRAWBERRIES (Northwest Use Only)**

Garden symphylans (aid in reducing damage): Use 1 1/3 quarts per 100 gallons. Mix thoroughly. Dip entire plant. When unmerging bundles of plants, make certain any trapped air is forced out to assure thorough wetting of entire plant. NOTE: Drain and allow plants to dry before setting them out in the field.

DPE



### STORAGE AND DISPOSAL

**PESTICIDE STORAGE:** Do not store in or around the home. Do not store below 30°F. (-7°C). Do not use or store near heat, open flame or hot surfaces. Keep out of reach of children and animals. Store in original containers only. Store in cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lid and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food or feed by storage and disposal. In case of spills, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. To confine spill: If liquid, dike surrounding area or absorb with sand, cat litter or commercial clay. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

**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:** 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. Do not cut or weld metal containers.

**Returnable/Refillable Sealed Containers:** Do not rinse container. Do not empty remaining formulated product. Do not break seals. Return intact to point of purchase.

#### CALIFORNIA SUPPLEMENTAL LABEL

Procedures for reducing risks of contamination of Aquatic ecosystems

#### FOR CROPS USES LISTED ON THE PRODUCT LABEL

**ENDOSULFAN JEC** may be a source of contamination in aquatic ecosystems as a result of run-off from agricultural land due to discharge of irrigation water or during periods of heavy rainfall. To minimize the chance of aquatic impact, the following conditions must be met to allow **ENDOSULFAN JEC** applications:

#### DIRECTIONS FOR USE IN CA (General)

**IN ADDITION TO SPECIFIC INSTRUCTIONS UNDER DIRECTIONS FOR USE ON THE PRINCIPAL LABELS, THE FOLLOWING CONDITIONS MUST ALSO BE FOLLOWED FOR USE IN CALIFORNIA:**

1. Do not apply this product to fields during irrigation or irrigate for 72 hours following an application.
2. Do not apply this product through any type of irrigation system.
3. Do not apply more than 1.5 pounds active ingredient per acre per application or more than 3.0 pounds active ingredient per acre per season. (Orchard crops and strawberries exempted on rate per acre per application restriction.)
4. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark.
5. Do not apply by ground or air within a distance of 300 feet to natural bodies of water including lakes, ponds, streams and estuaries.

#### FOR DRIFT CONTROL

1. All application equipment should be properly maintained and calibrated using appropriate carriers.
2. Do not make aerial or ground applications during temperature inversions.
3. Make aerial or ground applications when the wind velocity favors on-target product deposition (approximately 3 to 10 mph). Do not apply when wind velocity exceeds 10 mph. Do not discharge at a height of more than 10 feet above the crop or target.
4. For aerial application a positive shutoff system shall be in place to control flow of liquid to spray nozzles as follow: Each individual nozzle shall be equipped with a check valve and the flow controlled by a suckback device or a boom pressure release; or each nozzle shall be equipped with a positive action valve.

5. For aerial applications, the spray boom must be mounted on the aircraft so as to minimize GPR caused by wing tip or rotor vortices. The working boom length must not exceed 75% of wing span or rotor diameter.
6. Aircraft boom pressure shall not exceed 40 pounds per square inch.
7. Aircraft nozzles shall be equipped with orifices directed backward parallel to the horizontal axis of the aircraft in flight.
8. Aircraft nozzles shall not be equipped with any device or mechanism which would cause a chest, cone, fan or similar type dispersion of the discharged material except as otherwise provided.
9. Fixed wing aircraft and helicopters operating in excess of 60 mph shall be equipped with jet nozzles having an orifice not less than 1/16 inch in diameter (D-4 or larger).
10. Helicopters operating at 60 mph or less shall be equipped with nozzles having an orifice not less than 1/16 inch in diameter. A number 48 or equivalent whirlplate may be used.
11. For ground applications, equipment other than handguns shall be equipped with nozzles having an orifice not less than 1/16 inch in diameter or larger. Boom nozzles shall be operated at a boom pressure not to exceed 30 pound per square inch.

#### ACCEPTABLE SITES FOR ENDOSULFAN JEC APPLICATION

1. Fields, with no drains, having containment through berms (able to hold irrigation water and normal rainwater), levees and non-draining circulation systems.
2. Fields with drains, but drainage flows to sump, farm pond, evaporation pond, or recirculation system without drainage (uncontrollable overflow acceptable, e.g., 10 or 100 year flood). Only grower maintained recirculation systems without drainage are acceptable.
3. Fields with surface drains that naturally flow onto pastureland or fallow fields that have no chemical drainage and are at least 300 feet long.

#### UNACCEPTABLE SITES FOR ENDOSULFAN JEC APPLICATION

1. Fields draining directly into surface waters such as streams, rivers, lakes, ponds, marshes, bays, estuaries or the ocean.
2. Fields draining into surface drainage ditches or canals that flow directly into surface waters such as streams, rivers, lakes, ponds, marshes, bays, estuaries or the ocean.
3. Any and all fields with surface drainage patterns in the Moss Landing Drainage System having main arteries that drain into the Elkhorn Slough (Northern portion of Monterey County).
4. Any and all fields with drainage patterns in the San Diego Creek drainage system having main arteries that drain into Newport Bay

All applicable directions, restrictions and precautions on the EPA registered label are to be followed. This label must be in the possession of the user at the time of pesticide application.

#### WARRANTY—CONDITION OF SALE

**OUR RECOMMENDATIONS FOR USE** of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the Seller. Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith. In no case shall Drexel or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with directions given herewith. The foregoing is a condition of sale by Drexel Chemical Company and is acceptable as such by the Buyer.