# gowan Endosulfar $3 \in C$ 

## Insecticide

For Agriculiural or Commercial Use Only.

EPA Reg. No. 10163-110<br>EPA Est.

Active Ingredients: By Wt.<br>Endosulfan: (Hexachlorohexahydromethano-<br>2,4,3-benzodioxathiepin 3-oxide)<br>34.0\%<br>Inert Ingredients:* ..........................................66.0\%<br>100.0\%<br>-"Contains Xylene Range Aromatic Solvents. Contains 3 pounds of endosultan per gallon.

## KEEP OUT OF REACH OF CHILDREN象 DANGER-POISON

## PELIGRO

See Other Panels for Additional Precautionary Information.
PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

## STATEMENT OF PRACTICAL TREATMENT

If swallowed: Call a physician or Poison Control Center immediately. If possible, vomiting should be ind sced under medical supervision. Drink one or two giasses of water and i.rduce vomiting by giving one (1) ounce of syrup of ipecac, it available, in by fouching the back of the throat with a finger. Do not induce vomitirg of give anything by mouth to a person who is unconscious of convul sing.
If Inhaled: Remove victim tc :resh air. Apply artificial respiration if indicated.
If on skln: Remove contaminated clothing and wash skin with soap and water.
If in eyes: Flush eyes with plenty of water. Call a physician immediately.
Note to Physicians: 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. Bartituric 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 it complete control of respiration can be maintained. Epinephrine derivatives are absolutely contraingicated.

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For Emergency Assistance Call (800)424-9300.

# BEST AVALILBELE COFT Gowan 

P.O. Box 5569

Yuma, AZ 8.53ffrs.569

Under the Federal ineectiolde. Fungteide, and Rodontctide Act as ameaded, tor the perticide. regletered undex
EPR Ber. No. $70163-11 R$

## PRECAUTIONARY STATEMENTS Hazards to Humans (\& Domestic Animals)

## Danger

Fatal il swallowed. May be latal if inhaled or absorbed through the skin. Do not breathe vapors or spray mist. Causes eye damage. Oo not get in eyes, on skin. or on clothing. Applicators must wear a long sleeve shirt. trousers. unlined waterproof gloves made of natural rubber or neoprene. full foot covering (such as shoes or boots). head covering (such as a hat). and a pesticide mask or respirator jointly approved by the Mire Satety and Health Administration (MSHA) and the National Institute for Occupational Safety and Health (NIOSH) under the provisions of 30 CFA Part 11 for protection against endosulfan. Mixers and/or loaders must wear a chemical resistant apron and goggles or lace shield in addition to all of the protective equipment specified for applicators. Do not apply or allow $t 0$ drift to areas occupied by unprotected humans or beneficial animats Wash thoroughly with soap and water atter handing and before smoking or eating. Remove contaminated clothing and wash with soap and hot water belore reuse.

## 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 intertidal areas below the mean high water mark. Due to the risk of runoff and drift do not apply within a distance of 300 teet of lakes, ponds, sireams, and estuaries. Shrimp and crab may be killed at application rates recommended on this label. Do not apply where lish, 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.

## Physical/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 inc=nsistent with its labeling.
Do not apply this product through any type of irrigation system.
Do not apply this product in such a manner as to directly or ithrough drift expose workers or other persons. The area being treated must be vacated by unprotected persons.
Do not enter treated areas without protective clothing for 24 hours.
Protective clothing means, at least. a hat or other suitable head covering. a long sleeved shirt and long legged trousers or a coverall type garment (ail of closely woven fabric covering tte body, including the ams and legs), shoes and socks.
Eecause certain states may require more restrictive reentry intervals tor various crops treated with this product, such as the 48 hour reentry interval established by California, consult your State Department of Agnculture for further information.
Written or oral warnings must be given to werfurs who are expected to be in a treated area or in an atgz absut to be treatdd with this product. Inform workers of areas or lielys that inay not be entered withoul specific protective clothing. period of l-me lielt must be vacated and appropriate actions to take in case of accidental exposure. An example of such information is given under written wamings. When oral wamings are given, warnings shall be given in, a la. ıuage customarily understood by workers. Oral warnings must be given it the'e is renson to believe that written warnings cannot be u.ce. slood by norkers. Written warnings must include the following informarior:

## DANGER

Area treated with endosulfan on (insert date), ( P not enter writhout appropriate protective clotring lor 24 hours (insert State Depariment of Agricuiture's reentry interval, il mgre restactive).
In case of accidental exposure to pesticide éspray, wash the skin thoroughly with soap and wate: Remove contaminated clc:hing and wash belore reuse. II in eyes, thush with plenty of we:er. If inhaled. $g 0$ to an area where the pesticide has not been afshied. Gel medical attention il needed.

## STORAGE AND DISPOSAL

## Pestlcide Storage

Do not store in or around the home.
Do not store below $20^{\circ} \mathrm{F}$. ( $-7^{\circ} \mathrm{C}$ ).
Do not use or store near heat, open llame or hot surlaces.
Keep out of reach ol children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tighty. Do not put concentrate or dilute material into tood or drink containers. Do not contaminate other pesticides, fertilizers, water, food, or leed by storage or disposal.
in case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Contine spills.

To confine spill: Il liquid, dike surrounding area or absorb with sand, cat litter or commercial clay. If dry material, cover to prevent dispersal. Place damaged pack Jge 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 mearest EPA Regional Office for guidance.

## ,ntalner Disposal

Iriple 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.

See s-petemental lahal froe divections sum use
in Calito.nirk

## 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 insecis 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 uinimum of 10 gallons of water per acre on vegetable or row crops. O ve 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 aircrath. 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 $\mathbf{2 0}$ 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 sufticient water to orovide a minimum of finished spray equal to twice the amount
used.
Do not plant foot 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.

Alfalfa (Grown for Forage) (21)

| insects Controlled | Rate of Application | Method of Application |
| :---: | :---: | :---: |
| Meadow Spittebug | 2/3 pint per acre | Apply one weak atter eggs begin to hatch or when first small masses of froth are produced in the crowns of the plant which is usually, about the time the alfalfa is 4 to 6 inches tall. Apply in a minimum of 10 gallons of water per acre by ground or 2 galions of water per acre by air. |

## Do not graze or cul forage within 21 days of treatment.

Do not apply more than once per cutting
Oo not make more than 3 applications per year.
Do not exceed a maximum of 0.75 lb . active ingredient (i.e., 1 quart) per acre per year.

## BEST AVAILABLE COFT

Apples (21)

| insects Controlled | Rate of Application | Method of Application |
| :---: | :---: | :---: |
| Aphids (including Apple Aphid, Rosy Apple Aphid. Woolly Apple Aphid) <br> Apple Rust Mite <br> Green Fruitworm <br> Tarnished Plant Bug Tentiform Leafminers White Apple Leathopper (first generation) | ²\% quart per 100 gallons or a maximum of 31/3 quarts per acre | Applications made at pink and/ or petal fall provide best control of Tarnished Plant Bug and Green Fruitworm. For best control of first generation White Apple Leafhopper. apply when nymphs first appear on leaves. If necessary, prior to petal fall. use 1 quatt per 100 gations to control Apple Aphids and Rosy Apple Aphids. For control of Tentiform Leafminers, make first application as soon as moth flight begins. A second application should be made 10 days later. |

Do not feed pornace from treateci apples to livestock.
Do not leed cull Iruits to animals or atlow livestock to graze in treated orchards.
Do not make more than 2 applications during the fruiting period.
Do not make mo:e than 3 applications per year.
Do not exceed a maximum of 3.0 tbs. active ingredient (i.e., 4 quarts) per acre per year.

Apricots (21), Nectarines (21), Peaches (21)

| Insects Controlled | Rate of Application | Method of Application |
| :---: | :---: | :---: |
| Peachtree Borer Lesser Peachtree Borer | 1 quart per 100 gallons: West Coast-2\% to 1 quan per 100 gallons: Southeastern States-2 to 31/3 quarts per 100 gals. | 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 scattold limbs. |

Do not feed cull fruits to animals or allow livestock to graze in treated orchards.
Do not make more than 2 applications per year
Do not exceed a maximum of 3.0 lbs. active ingredient (i.e., 4 qu arts) per acre per year.

Apricots (30), Nectarines (30), Peaches (30)

| Insects Controlled | Rate of Application | Method of Application |
| :---: | :---: | :---: |
| Aphids (including Black Cherry Aphid, Black Peach Aphid, Green Peach Aphid, Rusty Plum Aphid) <br> Catfacing insects (Stink Bug type) <br> Green Fruitworm <br> Peach Silver Mite <br> Peach Twig Borer | 2\% quart per 100 yalions or a maximim of - 3 quarts per acre; West Coast-_0 not use more than 4 quarts per acre | Make applications when insects appear or feeding is noticed. |

Do not feed cull fruits to animals nor alloy livestock to graze in treated orchards.
Do not make more than 2 applicationis per yéar.
Do not exceed a maximum of 3.0 ths . dutive ingredient (i.e., 4 quans) per acre per year.

Artichokes (7)

| insects Controlled | Rate of <br> Applicaticni | Methnd of Aoplication |
| :---: | :---: | :---: |
| Aphids (including Artichoke Aphid, Green Peach Aphid) | 1 to $1 \frac{1}{3}$ quarts per acre | Make applicatiuns when insects appear or feedirg is noticed. Apply in atminimum ol |
| Artichoke Piume Moth Whitefly | 1'/3quarts per acre | 20 gallons of vate: per acee by ground and in a minimum ol 10 gallons of water per acre by air. |

Do not make more than 2 applications per year.
Do not exceed a maximum of 2.0 los. active ingrecient (i.e., $2^{2}$ s quarts) per acre per year.

| $\begin{aligned} & \text { Insects } \\ & \text { Controlled } \end{aligned}$ | Rate of Applicalio | Suethod of Apphication |
| :---: | :---: | :---: |
| Aim, Cuiworm | $\because$ quatt pes acre | For arrial application. apply in i2 y allons of diesel fuel oul per :acre |
| Certal Leal Beclle <br> illinois, Indiana. <br> Michigan and Ohio only) | $\begin{aligned} & \because \text { to } \because 3 \\ & \text { quarl per } \\ & \text { acre } \end{aligned}$ | Apply when small larvae are readily found in the field. For aenal application, use a minimum of 1 io 2 gallons of water per acre |
| , tphids | 3101 quart per acre | Make applicalions when insects appear or leeding is noliced |

Do not apply alter heads begin to form
Do not leed teated torage to livestock
Do not make more than 2 applications per year.
Oo not exceed a maximum ol 1.0 ib . aciive ingredient (i.e., 1 '/s quarts) per acre per year

Beans, Succulent and Dry (except Lima Beans) (3) and Southern Field Peas (Succulent type, including Black-eyed Peas, Crowder Peas and Soulhern Peas) (3)

| insects Conitrolled | Rate of Application | Method of Application |
| :---: | :---: | :---: |
| Black Bean Aphud Bean Leat Skeleton:zer Cowpea Cur julio jucumber Beetles <br> Flea Beetles <br> Green Stink Bug <br> Leathoppers <br> Mexican Bean 3eetle | $2 / 3$ to $1 \%$ quarts per acre | Make applications when insects appear or teeding is noticed. For control of Cowpea Curculio. make 3 applications at 5 -day intervals starting when the pods are $1 / 2$ inch long |
| Aphids <br> Armyworms <br> Western Bean Cutworm <br> Whitefly | i $1 / 3$ quarts per acre |  |

Do not leed treated threshings or allow livestock to graze in treated fields.
Do not use un Lima Beans that are to be remeved from the field for processing
Do not make more than 3 applications per year.
Oo not exceed a maximum of 3.0 lbs . active ingredient (i.e., 4 quarts) per acre per year

## Blueberries

| Insects Controlled | Rate of Application | Method of Application |
| :---: | :---: | :---: |
| Slueberry Bua Mite | 2 quarts per 300 gallons | Apply immediately atter harvest and repeat 6 to 8 weeks later. |

10 not apply atter buds are well formed.
Oo not make more than 2 appications per year.
Do not exceed a maximum of 3.0 lbs . active ingredient (i.e., 4 quarts) per acre per year

Broccoli (7), Brussel Sprouts (14), Cabbage (7). Cauliflower (14)

| Insects Controlled | Rate of Application | Method of Application |
| :---: | :---: | :---: |
| Caboage Aphid Cabbage Looper Cross-striped Cabbage . worm <br> Dıamondback Moth larvae <br> Fiea Beelles <br> Harlequin Bug <br> imported Caboageworm <br> Leathoppers <br> Stink Bugs | 1 to $1 \frac{1}{3}$ quarts per acre | Make applications when insects appear or feeding is noticed. |
| Armyworms Cutworms Whitelly | $11 / 3$ quarts per acre |  |
| Do not make more than 4 applications per year. <br> Do not exceed a maximum of 3.0 lbs . active ingredient (i.e. 4 quarts) per acre per year |  |  |

StJ AVRLIADLE GIP:

| Carrols (7) |  |  |  |
| :---: | :---: | :---: | :---: |
| irretect. Controlled | Fi.si: ! AApplicat cr: |  | Aptrcanol Appiczation |
| Green Peach Aphod Leathoppers | 's. 0 :', quants per acre | 19.7: trisec: nol:c. $\div$ | hpplcatons wit. appitat or lecedirg $י$ |
| Armyworms Flea Beetles V:'miefly | 1 'is quants per acre |  |  |

Do nol use tops for tood or teed
Do not make more than one application per year
Do not exceed a maximum of 10 lb active ingredient (ie., 1 's quans) per acre per year

Celery (4)

| Insects Controlled | Rate of Application | Meinod of Applicalion |
| :---: | :---: | :---: |
| Green Peach Aphid Cabbage Looper Leafhoppers | $2 / 3$ 10 1 's quants per acre | Make applications when insec!s appear or feeding is noticed. |
| Armyworms Flea Beettes Whitetly | $\begin{aligned} & 1 \% \text { quaris } \\ & \text { per acre } \end{aligned}$ |  |

Do not make more than one application per year.
Do not exceed a maximum of 10 to active ingredient (ie., 1 's quans) per acre per year.

## Celery (7)

| Insects <br> Controlled | Rate of <br> Application | Method ot <br> Application |
| :--- | :--- | :--- |
| Green Peach Aphid | $2 / 3$ quart <br> per acre | Make applications when <br> insecis appear or feeding is <br> noticed. |

Oo not make more than 2 applications per year
Oo not exceed a maximum of 1.0 ib active ingredient (ie e, $1 \%$ quars) per acre per year.

Cherries (21)

| Peachtree Borer Lesser Peachtree Borer | $\|$1 quart per <br> 100 gal- <br> lons: West <br> Coast. $2 / 3$ <br> 101 quart <br> per 100 <br> gallons | Thoroughly wet all bark trom ground to scattold limbs |
| :---: | :---: | :---: |
| Black Cherry Aphid Green Fruitworm Plum Rust (Nursery) Mite | $1^{2}$, clianper 100gallons or$2 \%$ 10 $3^{\prime} \cdot 3$quars peracre | Make applications when insects appear or leedirig is noticed |
| Pacific Northwest only Eyespotted Bud Moth Fruittree Leatroller |  | For Sud Moth control, apply a! "popcorn" stage for Leatroller control. apply during prepink stage of growth. |
| Michigan only: Mineola Moth | 1'is quarts per 100 gallons | Apply in the delayed dormant period. |

Oo not feed cull fruts to animals or allow livestock to graze in treated orchards.
Do not make more than 2 applications per year
Do not exceed a maximim of 3.0 ibs . active ingredient (ie. 4 quars) per acre jer year.
Cherry, Peach, Plum Nursery Stock Dip

| Insects Controlled | $\|$Aate of <br> Application <br> and | $\begin{gathered} \text { Method of } \\ \text { Appicsition } \end{gathered}$ |
| :---: | :---: | :---: |
| Peacntree Borer | $2^{2}$ is qual is : per, 40 galions. | Mix thoroughly. immerse trees so that the roots and crowns are covered well above the gralting bud scar. |

Wear rubber gloves during the dippirc operaticn. .
Plant immedia:ely or dry before returning stock to itorage

Citrus (Non-Bearing Trees and Nursery Stock)

| Rate of <br> Controlled | Rethod of <br> Application |  |
| :--- | :--- | :--- |
| Cilfus Aphid | Application |  |

Do not apply to bearing trees or trees that will bear frutt within tweive months
Do not make more than 2 applications per year.
Do not exceed a maxımum of 3.0 lbs . active ingredient (i.e., 4 quarts) per acre per year
Collards (21)

| Insects Controlied | Rate of Applicatıon | Method of Application |
| :---: | :---: | :---: |
| Aphids <br> Cabbage Loopet <br> Oramondback Moth larvae <br> Fall Armyworm <br> Flea Beetles <br> Harlequin Bug <br> Importec Cabbageworm <br> Leathoppers | $1101 \frac{1}{3}$ quarts per acre | Make applications when insects appear or teeding is noticed. |
| Whitriv | $11 / 3$ quarts per acre |  |

Oo not make more than one application per year
Do not exceed a maximum of 1.0 lb . active ingredient (i e., 1 's quarts) per acre per year.

Cciton

| Insects Controlted | Rate of Application | Method of Application |
| :---: | :---: | :---: |
| Aphids | $1 / 2$ to 1 quart per acre | Make applications when insects appear or feeding is noticed. For control of aphids. thorough coverage is important. |
| Boll Weevil | ² 3 to 2 quants per acre |  |
| Boliworm <br> Cabbage Looper <br> Cotton Leafperforator <br> Cotton Leafworm <br> Fleahoppers <br> Lygus Bugs <br> Stink Bugs <br> Tobacco Budworm | $1 / 5102$ quarts per acre |  |
| Thrir | 2 quarts per acre |  |

Applications may be made using ground or aerial application equipment. The higher rate should be used under heavy pest pressure.
Do not apply after boils open.
Do not graze dairy or meat animals in treated fields.
Do not exceed a maximum of 3.0 tbs . active ingredient (i.e., 4 quarts) per acre per year.
Cucumbers (2), Mcions (2), Pumpkins (2), Summer and Winter Squash (2)

| Insects Controlled | Aate of Application | Method of Applicatıon |
| :---: | :---: | :---: |
| Aphids <br> Cucumber Beetles <br> Melonworm <br> Prckleworm <br> Rindworm (on watermetons) <br> Squash Beetle <br> Squash Bug <br> Squash Vine Borer <br> Sinped Flea Beetle | ² $力$ to $1^{11 / 2}$ quatts per acre | Make applications when insects appear or feeding is noticed. For Squash Vine Borer controf, apply weekly to flower buds. stems, and vines beginning when moths first appear. |
| Cabbage Looper Omniverous Leatroller Whisefly | $11 / 3$ quarts per acre |  |
| Do not make more than 6 apoications per year. Do not exceed a maximum ol 30 lbs . active ingredient (i.e., 4 quarts) per acre per year. |  |  |


| EnsecisControlled |  | Al-:hod of Application |
| :---: | :---: | :---: |
|  | Palte of Application |  |
| Blister Beetle Colorado Potato Beetle Fiea Beetles Green Peach Aphtd Green Stink Bug | $\therefore 101: 1$ quarts per acre | Maxe appications when insects appear or teedirg is noticed |
| Whitelly | 1 1/3 quarts per acre |  |
| Do not make more than Do not exceed a maxim per acre per year | pplications ot 1.0 lb a | year. <br> ive ingredient (i.e.. 1 ¹/3 Guarts) |

Grapes (7)

| Insects Controlled | Rate of Application | Method of Apolicalion |
| :---: | :---: | :---: |
| Grape cealhopper Grape Phylloxera (leal form) <br> Rose Chater | 2/3 quan per 100 gallons or $1 / 3$ to 2 quarts per acre | Make applications when insects appear or teeding is not:ced. |
| Oo not use on Concord variety as severe injury is likely to occur Ground application is prelerred. <br> Do not make more than 3 applications per year. <br> Oo not exceed a maximum of 3.0 ibs . active ingredient i.te., 4 quarts) per acre per year. |  |  |

Kale (21)

| Insects <br> Controiled | Rate of <br> Application | Method of <br> Apphcation |
| :--- | :--- | :--- |
| Cabbage Flea Beetle <br> Harlequin Bug <br> Imported Cabbageworm | 1 quart per <br> acre | Make appiications when <br> insects appear or teeding is <br> noliced |

Do not mane more than application per year
Do not exceed a maximum of 0.75 lb . active ingredient (i.e., 1 quart) per acre per year.

Lettuce (14)

| Insects Controlled | Rate of Application | Method of |
| :---: | :---: | :---: |
| Cabbage Looper Dramonoback Moth lanae Green Peach Aphid imponted Cabbageworm Leathoppers | 1 10 1 $1 / s$ quarts per acre | Make applications when insects appear or feeding is noticed. |
| Armyworms Whitefly | $11 / 3$ quants per acre |  |
| On Head Lettuce: Do not make more than 3 applications atter thinning Remove wrapper leaves at harvest. <br> On Leaf Letluce: Do nct make more than 2 applications per year. <br> Do not feed crop refuse to livestock. <br> Do not exceed a maximum of 3.0 lbs . active ingredient (i e., 4 quars) per acre per year. |  |  |

Mustard Greens (21)

| insects Controlled | Fate of Application | Method of Application |
| :---: | :---: | :---: |
| Aphids <br> Cabbage Looper <br> Oramondback Moth larvae <br> Fall Armyworm <br> Fiea Beetles <br> Hartequin Bug <br> Imported CaLbageworm <br> Leathoppers | $\begin{aligned} & 1 \text { to } 11 / \overline{3} \\ & \text { quarts per } \\ & \text { acte } \end{aligned}$ | Make applications when insects appear or leeding is noticed. |
| Whitelly | 1 $1 / 3$ quarts per acre |  |
| Do not make more than one application per yopr. <br> Do not exceed a maxmum of 1.0 lb . active . g gre Jient ( e e $\mathrm{I}^{1} / 3$ quarts) per acroper year. |  |  |

Pears（7）

| Insects Controlled | Hate 0 ： Application | Method of Application |
| :---: | :---: | :---: |
| Green Fruinorn Tarnished Plant Bug | Bir quan oer 100 gallons or $22 / 31033$ quarts per acre | Make applications at white bud or petal falt when insects apcear or teeding is noliced |
| Pear Fsylla | 31／3 quarts per acre | Apply in a minimum of 10 gal ． ions of water for denal appis cation or in 300 gallons of water for dilute application． Apoly when adults are first obsenved or nymphs are sma！！ and repeat to maintain control． |
| Fear Rust Mite Consperse Slink Bug （toliar trealment） | 2／s quart per 100 gallons or $2 \%$ or $3 \%$ quarts per acre | Make applications when insects appear or teeding is noticed．Stink Bugs must be wet by spray to obtain controt． |
| Consperse Stink Bug （soil trearment） | 2／3 quart per 100 pallons： 200 to 400 gallons per acre | Apply to orchard tloor and around trees prior to bloom． |
| Pear Leal Buster Mite | $1 / 102 / 5$ quart per 1000 gallons | Apply as a post harvest or dor－ mant treatment． |

Do not feed cull truits to animais or allow livestock to graze in treated orcharos
Do not make more than 2 applications per year
Do not exceed a maximum of 3.0 lbs ．active ingredient（i．e．， 4 quars） per acre per year．
Note：Aerial application may not result in satislactory control and should only be employed if impossible to apply by ground．
Peas（Seed Crop Only）（1）

| insects Controlled | Rate of Apfication | Method of Application |
| :---: | :---: | :---: |
| Pea Aphid Pea Weevil | ```2% quarts per acre``` | Make applications when insects appear ir teeding is noticed |

Use only on pess to be harvested by comoine
Oo not teed treated vines or threshings to livesiock or allow ivestock to graze in trealed lields
Do not make more than 2 applications per year
Do not exceed a maximum of 1.5 lbs ．active ingredient（i．e．， 2 quarts） per acre per year．

Pecans

| Insects Controlled | Rate of Application | Meitod of Appication |
| :---: | :---: | :---: |
| Black Pecan Aphid Pecan Nut Casebearer Spittlebug | $\begin{aligned} & 1 \text { quart per } \\ & \text { loo } \\ & \text { gallons } \end{aligned}$ | Make applications when insects appear or feeding is noticed．For Casebearer， apply when eggs of first gen－ eration appear on the tips of the young nuts．Another appli－ cation may be required after the second generation of eggs is deposited．For Spitllebug， apply when first leaves are half grown and repeat as required． |
| Pecan Leal Phylloxera | 2／3 to 1 quart per 100 gallons | Apply when nymphs appear and before they are enclosed in plant tissue．For high popu－ lations，use the higher rate． |

Do not apply atter shuck splt．
Oo not graze livestock on orchard crops or grasses in treated areas．
Do not make more than 2 applications per year．
Do not exceed a maxmum of 3.0 tes．active ingredient（i．e． 4 quarts） per acre per year．

Peppers（1）


Do not make more than 2 applications per rear
Do not exceed a maximum of 10 lb active ingredient（ie e． $1 / \mathrm{s}$ quarts） per acre per year

Peppers（4）

| Insects Controlled | Rate of Application | Me：hod of Application |
| :---: | :---: | :---: |
| Armyworms Flea Beetles Green Peach Aphid Hornworms Leathoppers Pepper Maggot | 2／3 10 1＇h quants per acre | Make applications when irisects appear or leeding is noliced |
| Whitefly | $11 / 3$ quarts per acre |  |

Do nol make more than 2 applications per year
Do not exceed a maximum cl 2.0 bs ．active ingredient（ie．， $2^{2} / 3$ quarts） per acre per year．
Pineapple（For Fresh Markel Only）（7）

| insects Controlled | Rate of Application | Method of Application |
| :---: | :---: | :---: |
| Pineapple Fruti Mite | $\begin{aligned} & 2102^{2 i} \\ & \text { quans per } \\ & \text { acre } \end{aligned}$ | Make applications when insec：s appear or teecing $1 s$ noticed．Appiy at intervals of 7 to 10 days．if necessary．par－ ficularly during the 40 day pernod of blooming |
| Do not leed forage or pineapple by－products to livestock． <br> Do not make more than 2 applications per year <br> Oo not exceed a maximum of 30 lbs ．active ingrecient（i．c．． 4 quarts） per acre per year． |  |  |

Plums（7），Prunes（7）

| Insects Controlled | Hate of Appication | Method of Application |
| :---: | :---: | :---: |
| Fruntree Leatroller （Pacific Northwes：Only） | 2\％quart per 100 gallons or $2^{2}$ ， $103^{\circ}$ ， quarts per acre | Apply during pre－pink stage of growtit when insects acpear or |
| Aphids fincluding tiop <br> Aphid．Leatcurl Plum <br> Aphid．Thistie Aphid） Plum Rust（Nursery）Mite |  | feecing is noticed |
|  |  | For control of aphods．apply when eggs natch curing pre－ bloom of petal fall Summer appications should de made belore leaves curl． |
| Feach Twig Borer | 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 Borer | 1 quart per 100 gal ． <br> lons or $2^{2 / 3}$ 103 ＇h quarts per acre | Apply spray to thoroughly wet the irunk and main branches． |
| Peachtree Borer | 1 cuart per tへす ge＇－ lifis or $2^{2}$ ， 10 3＇s qua．is＇plo acre Wert Coast－is 10リーゴで per 1 ul galars $6:$ $2 \%$ to $3 \%$ quarts per acre | Spray the gaf．ghty 10 cover all bark areas trom ground to scattoid limbs． |

Do not allov fivestock to graze on orchard crose of drasses in treated areas
Do not make more than 2 applications per year
Do not exceed a maximum ol 30 lbs ．active ingredient（t e． 4 quarts per acte per year．


## Safflower

| Insects Controlled | Rate of Application | Metmod of Application |
| :---: | :---: | :---: |
| Green Feach Aphid Whitelly | $1 \%$ quarts per acre | Make applications when insects appear or teeding is noticed. |
| 0 apply atter to Oo .ul make more th Do nol exceed a ma per acre per year. | as open. pircations p 20 lbs a | yeas ive irgrectent (1 e . $2^{2}$; quants) |

## Spinach (21)

| Insects Controlled | Rate of Applecation | Method of Application |
| :---: | :---: | :---: |
| Armywerms <br> Crown Mite <br> Flea Beelles <br> Green Peach Aphid <br> Leafhoppers | 1 to $1 \frac{1}{3}$ quarts per acre | Make applications when insects appear or teeding is noliced. |
| Whutelly | $11 / 3$ quants per acre |  |
| Do nol make more than one application per year. Do not exceed a maximum of 10 lb active ingredient (i.e. $1^{1 / 3}$ quants) Der acre per year |  |  |
| Strawb". ${ }^{-5(4)}$ |  |  |
| iecis <br> Co. trolied | Rate of Application | Method of -Application |
| M- iw Spittebug Si seriy Aphid Tarnished Plant Bug Whitefly | 11/3 quants pe- 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 truit is present. |
| Cyclamen Mite | 2², quants per acre in 400 gallons | Make applications when insects appear or feeding is noticed. Thoroughly wet the foliage. stem and crown of the olant. For multuple applications. do not apply at intervals less than 35 days when fruit is present. |

## Oo not make more than 3 applications per year.

Do not exceed a maximum of 3.0 lbs . active ingredient (i.e.. 4 quarts) per acre per year.

Strawberfies-iJorthwestlise Only

| misect: Controlled | Rate of Application | A.thod of Application |
| :---: | :---: | :---: |
| Garden Symptiylan (aids in reducing damage) | $11 / 3$ Guarts per 100 gallons | Mis , horoughly Dip entire plant When ammersing bundies of plants. make certa!n any trapped 3 us is torced out to assure thorough wetting of entire plant. |
| Wear rubber gloves during the dipping operation. Drain and allow plants to dry betore setting them out in the field. |  |  |

Sugar Beets (30)

| Insects Controlted | Rate of Application | Method of Application |
| :---: | :---: | :---: |
| Green Peach Aphid Meadow Spittlebug | $2 / 3$ to $1 / 3$ quarts per acte | Make application(s) when insects appear or leeding is noliced. Make one or wo applications per year as needed for control. |
| Sugar Beel Webworm | 1 to $1^{1} h$ quarts per acre |  |
| Whitefly | $11 / 3$ quarts per acre |  |

Do not feed treated tops to livestock.
Do not make more than 2 applications per year.
Do not exceed a maxımum ol 2.0 lbs active ingredient (i.e.. $2^{2} / 3$ quants) per acre per year.

Sunflowers(1)

| insects Controlled | Rate of Application | Method of Application |
| :---: | :---: | :---: |
| Suntlower Moth | $11 / 3$ quants per acte | Make applications when insects appear or teeding is noticed. Make the first applcation at the onset of bloom. Allow 7 days between repeat applications |

Do not feed treated forage to livestock.
Do not make more than 3 applications per year.
Do not exceed a maximum of 3.0 lbs. active ingredient (i.e., 4 quarts) per acre per year.

Sweet Corn (Fresh Vegetable Use Only) (1)

| insects Controlled | Pate of Application | Method of Application |
| :---: | :---: | :---: |
| Corn Leat Aphid Whitetly | 1's quans per acre. | Make applications when insects appear or teeding is noticed. |
| Corn Earworm | 2 quarts pe. acre | Apply when silks first appear and continue untulthey begin to dry. Allow 5 days between applications. |

Do not apply to Sweet Corn to be processed.
Do not feed treated forage or ensilage to livestock or allow livestock to graze in treated fields.
Do not make more than 3 applications per year
Do not exceed a maximum of 3.0 lbs . active ingredient (i.e.. 4 quarts) per acre per year.


Do not feed cull potatoes to livestock or allow livestock to graze in treated fields.
Do not make more than 3 applications per year.
Do not exceed a maximum of 3.0 its active ingredient (ie., 4 quarts) per acre per year

Tobacco (5)


Do not make more than 6 applications per year.
Do not exceed a maximum of 30 \%s. active ingredient (ie., 4 quarts) per acre per year.

Tomatoes (Field and Greenhouse) (2)


Do not make^ more than 6 applications fer year.
Oo not exceed a maximum ot 3.0 lbs . active ingredient (ie., 4 quarts) per acre per year.

## Walnuts

| Insects <br> Controlled | Rate of <br> Application | Method of <br> Application |
| :--- | :--- | :--- |
| Walnut Aphid | 2 to 3 '/s <br> quarts per <br> acre | Make applications when: <br> insects appear or feeding <br> noticed |

Do not apply after husk split
Do not graze livestock on orchard crops of grasses in treated areas
Do not make more than 2 applications per year.
Do not exceed a maximum of 3.0 lbs . active irgredient (ie., 4 quart) per acre per year.

## COMMERCIALLY GROWN ORNAMENTALS Ornamental Plants

Leatherleaf Fern (Leather Holly Fern)

| Insects <br> Controlled | Rate of <br> Application | Method of <br> Application |
| :---: | :--- | :--- |
| Leatherleaf Fern Borer | 2 ra quart <br> per 100 <br> gallons | Begin treatment when lirsi lar:- <br> vat feeding is observed in the <br> mid -vein area at the base of <br> the leaflets. Repeat at inter. <br> gals of 2-to 3 weeks as <br> necessary. |

Do not exceed a maximum of 3.0 lbs . active ingredient (ie., 4 quarts) per acre per year.

Ornamentals (Greenhouse, and Out-ot-Doors)

| Insects <br> Controlled | Rate of <br> Application | Method of <br> Application |
| :--- | :--- | :--- |
| Aphids <br> Cyclamen Mite <br> Rose Chafer <br> Whitefly | 2/3 quart <br> per 100 <br> gallons | Make applications when <br> insects appear or feeding is <br> noticed. |

On chrysanthemums, best results will be obtained il applied before plants tower.
Do not apply to "Bonnafon Deluxe". "Fred Shoesmth", and "White Knight" chrysanthemums as injury may result! " , :
Do not use on Birch trees.
Do not exceed a maximum of 3.0 ios: active ingredient (ie., 4 quarts) per acre per year.
$\cdots$
$\therefore$

## Ornamental Trees and Shrubs

Dogwood, Lilac


Food utensils such as teaspoons must not be used for food purposes after use in measuring pesticides.
Do not exceed a maximum of 3.0 lbs . active ingredient (i e., 4 quarts) per acre per year.
Douglas Fir (Grown for Ornamentals, Nursery Stock or Christmas trees)-Pacific Northwest Only


Fo. tensile such as teaspoons must not be used for flood purposes after use in measuring pesticides.
Do not exceed a maximum of 3.0 lbs . active ingredient (ie., 4 quarts) per acre per year.

Pines (Austrian, Jack, Red, Scotch, White)


Food utensils such as teaspoons must not be used for food purposes after use in measuring pesticides.
Do not exceed a maximum of 3.0 bbs . active ingredient (ie., 4 quarts) per acre per year.


Spruce (New England Area Only)


Food utensils such as teaspoons must not be used tor food purposes alter use in measuring pesticides.
Do not exceed a maximum of 3.0 ibs . active ingredient (ie., 4 quarts) per acre per year.


Food utensils such as teaspoons must not be used for food purposes after use in measuring pesticides.
Do not exceed a maximum of 3.0 lbs . active ingredient (i.e.. 4 quarts) per acre per year

## NOTICE ON CONDITIONS OF SALE

Our recommendations for use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer. no guarantee. expressed or implied. is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice. Buyer must assume all responsibility. including injury or damage. resulting from its misuse as such, or in combination with other materials

CALIFORNIA SUPPLEMENTAL LABEL

## PROCEDURES FOR REDUCING RISK OF CONTAMINATION OF AQUATIC ECOSYSTEMS

## FOR CROP USES LISTED ON THE PRODUCT LABEL

Endosulfan 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 applications:

DIRECTIONS FCR USE (General)
IN ADDITION TO SPECIFIC INSTRUCTIONS UNDER DIRECTIONS FOR USE ON TEE PRINCIPAL LABELS, THE FOLLOWING CONDITIONS MUST ALSO BE FOLLOWED FOR USE IN CALIFORNIA:

1. Do not apply this product to fields during irrigation or for 72 hours following an irrigation.
2. Do not apply this product through any type of irrigation system.
3. Do not apply more than 1.5 lbs. a.i./acre/application or more than 3.0 lbs. a.i./acre/season. (Orchard crops and strawberries exempted on rate/acre/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 $\because *$ 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 follows: each individual nozzle shall be equipped with a check valve and the flow controlled by a suckback device or a boom pressure release device; 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 drift caused by wing tip or rotor vortices. The working boom length must not exceed 75 percent 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 sheet, 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 46 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 pounds per square inch.

## ACCEPTABLE SITES FOR ENDOSULFAN 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, egg., 10 or. $:$ : 100 year flood). Only grower maintained recirculation systems without drainage are acceptable.
3. FIEEDS WITH SURFACE DRAINS THAT NATURALLY FLOW ONTO PASTURELAND OR FALLOW FIELDS THAT HAVE NO CHANNELED drainage and are at least 300 feet long.

## UNACCEPTABLE SITES FOR ENDOSULFAN APPLICATION

1. FIELDS DRAINING DIRECTLY INTO SURFACE WATERS SUCE AS STREAMS, RIVERS, LAKES, PONDS, MARSHES, BAYS, ESTUARIES. OR THE OCEAN.
2. FIELDS DRAINING INTO SURFACE DRAINAGE DITCEES OR CANALS that flow directly into surface waters such as streams. RIVERS, LAKES, PONDS, MARSHES, BAYS, ESTUARIES, OR TEE OCEAN.
3. ANY AND ALL FIELDS WITE SURFACE DRAINAGE PATTERNS IN THE MOSS LANDING DRAINAGE SYSTEM HAVING MAIN ARTERIES THAT DRAIN INTO TEE ELKHORN SLOUGB (northern portion of Monterey County).
4. ANY AND ALL fields with drainage patterns in the san DIEGO CREEK DRAINAGE SYSTEM RAVING MAIN ARTERIES THAT DRAIN INTO NEWPORT BAY.

ALL APPLICABLE DIRECTIONS, RESTRICTIONS AND PRECAUTIONS ON the epa registered label are to be followed.
this labeling must be in the possession of tee use at the time of pesticide application.

