

### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Ms. Terre Allen Gowan Company P.O. Box 5569 Yuma, AZ 85366-5569

DEC 3 1 2002

Dear Ms. Allen:

Subject: Amendment- Update to match use patterns and limitations appearing on source material label; and Revise First Aid Per PR Notice 2001-1

Gowan Endosulfan 3EC EPA Registration Number 10163-110 Your submission dated December 19, 2002

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

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

- a. On the front panel, under "For Agricultural or Commercial Use Only", add "Not for use or storage in around residential sites see DIRECTIONS FOR USE /GENERAL INSTRUCTIONS for prohibited areas".
- b. In the First Aid section, relocate the If Swallowed advice to be the first route of exposure listed. In this entry, add "or convulsing" after "unconscious" in the fourth bullet item.
- c. The submitted NOTE TO PHYSICIAN is for an organophosphate insecticide. Endosulfan is not an organophosphate. Replace that section with the following:

#### 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. Epinephine derivatives are absolutely

contraindicated. 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.

- c. Please refer to PR Notice 98-9 for updated pesticide respirator recommendation text to appear in the PPE listing for applicators and other handlers.
- d. Under the heading GENERAL INSTRUCTIONS, replace "Not for use or storage in or around the home." with "Not for use or storage in or around residential sites, including homes, nonagricultural outbuildings, non-commercial greenhouses, recreational vehicles, preschools, day care centers, and applications to humans and pets.".
- e. Under the heading ORNAMENTAL TREES AND SHRUBS (Commercially grown outdoors only), delete the entries for LEATHERLEAF FERN and for "ORNAMENTALS" (which pertains to succulent ornamentals). As we discussed by telephone, all of the other listed use patterns may remain under this heading.

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

Sincerely,

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

# **GOWAN ENDOSULFAN 3EC**

#### INSECTICIDE

For Agricultural or Commercial Use Only

ACTIVE INGREDIENT:	% BY	WEIGH1	ı
Endosuffan (Hexachlorohexahydromethano-2,4,3-benzodioxathlepin-3-oxide)	.4111	34.0%	(
OTHER INGREDIENTS*		<u>66.0</u> 9	4
	TOTAL	100.0%	4

\*Contains Xylene Range Aromatic Solvent. Contains 3 pounds of endosulfan per gallon.

#### KEEP OUT OF REACH OF CHILDREN

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.)

	FIRST AID
If Inhaled	<ul> <li>Move person to fresh air</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>
If on skin or clothing	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
If in eyes	Hold eye open and rinse slowly and gentity with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
If swallowed	<ul> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by the poison centrol center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>
	HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-888-478-0798 for emergency medical treatment information.

NOTE TO PHYSICIAN

This product is an organophosphate insecticide. If symptoms of cholinesterase inhibition are present, atropine suifate by injection is antidotal. 2-PAM is also antidotal and may be administered, but only in conjunction with atropine.

#### FOR EMERGENCY RESPONSE AND HAZARD COMMUNICATIONS ONLY, CALL 1-888-478-0798

#### 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 inhaled or 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 ≥ 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.

NET CONTENTS \_\_\_\_ GALS.

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DEC 3 1 2002

Gowan Company P.O. Box 5569 Yuma, Arizona 85366

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EPA Reg. No. 10163-110 EPA Est. No. 67545-AZ-1 **ENGINEERING CONTROL STATEMENT:** 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:

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

#### **ENVIRONMENTAL HAZARDS**

This product is toxic to fish, birds, and other wildlife. Birds feeding on treated areas may be killed. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Due to the risk of runoff and drift, do not apply within a distance of 300 feet of lakes, ponds, streams, and estuaries. 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. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. 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 AND 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, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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

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 early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water is:

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves such as Barrier Laminate or Viton ≥ 14 mils
- Protective eyewear
- · Chemical-resistant footwear plus socks
- Chemical-resistant headgear for overhead exposure

See California Supplemental Label (at the end of this label) for required procedures for reducing risk of contamination of aquatic ecosystems.

#### **PHYTOTOXICITY STATEMENT**

As is common with most emulsifiable concentrate formulations, adverse effects such as spotting or discoloration of the fruit or foliage can occur. Some conditions known to contribute to phytotoxicity include, but are not limited to: high temperatures, poor spray drying conditions excessive spray deposit or runoff, certain spray mixtures, stage of crop development or tank mixes with other pesticides.

#### RESISTANCE MANAGEMENT

Based on historical use patterns in some areas, certain pest species listed on this label may have developed resistance to ENDOSULFAN 3EC. Consult your local agricultural advisor, State Cooperative Extension Service or regional Gowan Company representative for recommendations.

#### **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 of 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 Gowan Endosulfan 3EC Insecticide used.

Do not plant root crops other than carrots, potatoes, sweet potatoes, and sugar beets as follow-up crops.

OBSERVE STATE AND REGIONAL RESTRICTIONS AND LIMITATIONS if indicated in the crop headings. (California only) indicates instructions specific to California. (Except California) indicates uses for all states excluding California. No state restrictions indicates that the use is valid in California and all other states.

PREHARVEST INTERVAL

The required days between the last application and harvest are given in ( ) after each crop name.

CROP	PEST	QTS./100 GALS. WATER	COMMENTS
APPLES (30) (California only)	Aphids (including Apple Aphid, Rosy Apple Aphid, Woolly Apple Aphid), Apple Rust Mite, White Apple Leafhopper (first generation)	200	Or a maximum of 3 ½ qts. 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 qt. per 100 gals. to control Apple Aphids and Rosy Apple Aphids.
	Do not make more than 2 applic     Do not make more than 3 applic	s or allow livesto cations during to cations per year	ock to graze in treated orchards. he fruiting period.
APPLES (21) (Except California)	Aphids (including Apple Aphid, Rosy Apple Aphid, Woolly Apple Aphid), Apple Rust Mite, Green Fruitworm, Tarnished Plant Bug, Tentiform Leafminer, White Apple Leafhopper (first generation)	<sup>2</sup> / <sub>8</sub>	Or a maximum of 3 1/3 qts. 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 qt. per 100 gals. to control Apple Aphids and Rosy Apple Aphids. For control of Tentiform Leafminer make first application as soon as moth flights begin. A second application should be made 10 days later.
	Do not make more than 2 applic     Do not make more than 3 applic	s or allow livesto cations during the cations per year	ock to graze in treated orchards. he fruiting period.
APRICOTS, NECTARINES, PEACHES (21) (Except	Peachtree Borer, Lesser Peachtree Borer	1	Or 2 2/3 to 3 1/3 qts. per acre. Pacific Northwest: Use 2/3-1 qt. Per 100 gals.; Southeastern States: Use 2 to 3 1/3 qts. Per 100 gals. Best control is obtained with a single application post-harvest during the first week of September. Spray all bank areas from ground level to lower scaffold limbs.
California)	<ul> <li>Do not make more than 2 applic</li> </ul>	cations per year	ock to graze in treated orchards. edient (i.e., 4 qts.) per acre per year.
APRICOTS, NECTARINES, PEACHES (30) (Except California)	Aphids (including Black Cherry Aphid, Black Peach Aphid, Green Peach Aphid, Rusty Plum Aphid), Catfacing Insects (Stink Bug type), Green Fruitworm, Peach Silver Mite, Peach Twig Borer	?/3	Or a maximum of 3 1/3 qts. Per acre. Make applications when insects appear or feeding is noticed.
	<ul> <li>Do not make more than 2 applic</li> </ul>	ations per year	tock to graze in treated orchards. edient (i.e., 4 qts.) per acre per year.
APRICOTS, NECTARINES, PEACHES (30) (California only)	Aphids (including Black Cherry Aphid, Black Peach Aphid, Green Peach Aphid, Rusty Plum Aphid), Catfacing Insects (Stink Bug type), Peach Silver Mite, Peach Twig Borer	2/3	Or a maximum of 3 ½ qts. Per acre. Make applications when insects appear or feeding is noticed.
	<ul> <li>Do not make more than 2 applic</li> </ul>	ations per year	tock to graze in treated orchards. edient (i.e., 4 qts.) per acre per year.

CROP	PEST	QTS./ACRE	COMMENTS
BARLEY, OATS, RYE,	Army Cutworm	2/3	For aerial application apply in 2 gals, of crop oil per acre. Apply when smal larvae are readily found in the field.
<b>WHEAT</b> (Except California)	Cereal Leaf Beetle (Illinois, Indiana, Michigan, and Ohio only)	1/3 - 2/3	Apply when small larvae are readily found in the field. For aerial application, use a minimum of 1 to 2 gals, of water per acre.
·	Aphid	²/₃ -1	Make application when insects appear or feeding is noticed.
	Do not feed treated forage to li     Do not make more than 2 appli     Do not exceed a maximum of 1	cations per year.	lient (l.e., 1 ⅓ qts.) per acre per year.
BARLEY,	Army Cutworm	7/3	Make application when insects appear or feeding is noticed.
OATS, RYE,	Aphid	²/ <sub>3</sub> - 1	
WHEAT (California only)	Do not apply after heads begin Do not feed treated forage to liv Do not make more than 2 appli Do not exceed a maximum of 1	restock, cations per year.	ient (i.e., 1 ⅓ qts.) per acre per year.

CROP	PEST	QTS./ACRE	COMMENTS
BEANS, SUCCULENT and DRY (Except Lima Beans) (3) SOUTHERN FIELD PEAS (Succulent type, Including Black- Eyed Peas,	Black Bean Aphid, Bean Leaf Skeletonizer, Cowpea Curculio, Cucumber Beetle, Flea Beetle, Green Stink Bug, Leafhopper, Mexican Bean Beetle	?/s -1 1/s	Make applications when insects appear or feeding is noticed. For control of Cowpea Curculio, make 3 applications at 5 day intervals starting when the pods are ½ inch long.
Crowder Peas and	Aphid, Armyworm, Western Bean Cutworm, Whitefly	1 1/3	
Southern Peas	Do not feed treated threshings	or allow livesto	ck to graze in treated fields.
(3) (Except			eved from the field for processing.
California)	<ul> <li>Do not make more than 3 appl</li> </ul>	lications per yea	r.
			edient (i.e., 4 qts.) per acre per year.
BEANS, SUCCULENT and DRY (Except Lima Beans) (3) SOUTHERN FIELD PEAS (Succulent type, including Black-	Black Bean Aphid, Bean Leaf Skeletonizer, Cucumber Beetle, Flea Beetle, Green Stink Bug, Leafhopper, Mexican Bean Beetle	₹/s -1 1/s	Make applications when insects appear or feeding is noticed.
Eyed Peas, Crowder Peas	Aphid, Western Bean Cutworm, Whitefly	1 1/3	
and Southern	Do not feed treated threshings	or allow livesto	ck to graze in treated fields
Peas) (3)			eved from the field for processing.
(California only)	<ul> <li>Do not make more than 3 appl</li> </ul>		
	<ul> <li>Do not exceed a maximum of:</li> </ul>	3 lbs. active ingr	edient (i.e., 4 qts.) per acre per year.
BLUEBERRIES (Except	Blueberry Bud Mite	2 per 300 gais.	Apply immediately after harvest and repeat 6 to 8 weeks later.
California)	<ul> <li>Do not apply after buds are we</li> </ul>		
	Do not make more than 2 appl		
BEOCCOLL (7)	Do not exceed a maximum of Cabbage Aphid, Cabbage	3 lbs. active ingr 1 - 1 <sup>1</sup> /₃	edient (i.e., 4 qts.) per acre per year.
BROCCOLI (7), BRUSSELS	Looper, Cross-striped	1 - 1 73	Make applications when insects appear or feeding is noticed.
SPROUTS (14),	Cabbageworm, Diamondback		
CABBAGE (7),	Moth Larvae, Flea Beetle,	İ	
CAULIFLOWER	Harlequin Bug, Imported		
(14) (Except	Cabbageworm, Leafhopper,		
California)	Stink Bug		
	Armyworm, Cutworm, Whitefly	1 1/3	
	Do not make more than 4 appl		
BBOCCOLL (7)			edient (i.e., 4 qts.) per acre per year.
BROCCOLI (7), BRUSSELS	Cabbage Aphid, Cabbage Looper, Cross-striped	1 - 1 1/3	Make applications when insects appear or feeding is noticed.
SPROUTS (14),	Cabbageworm, Diamondback		
CABBAGE (7).	Moth Larvae, Flea Beetle,		
CAULIFLOWER	Hartequin Bug, Imported	1	
(14) (Catifornia	Cabbageworm, Stink Bug		
only)	Armyworm, Cutworm, Whitefly	1 1/3	<u></u>
	Do not make more than 2 appli		
248888	Do not exceed a maximum of 2		edient (i.e., 2 1/3 qts.) per acre per year.
CARROTS (7)	Green Peach Aphid, Leafhopper	²/3 - 1 ¹/3	Make application when insects appear or feeding is noticed.
(Except	Armyworm, Flea Beetle, Whitefly	1 1/3	
California)	Do not use tops for food or fee     Do not make more than one or		or .
	Do not make more than one ap     Do not exceed a maximum of a		ar. dient (i.e., 1 ⅓ qts) per acre per year.
CARROTS (7)	Do not exceed a maximum of 1 Green Peach Aphid	2/3 - 1 1/3	Make application when insects appear or feeding is noticed.
California only)	Flea Beetle, Whitefly	1 /3	пака аррисанов члан тасса арреат от геспіцу із полово,
Canonia Ony)	Do not use tops for food or fee		
J	·		
	<ul> <li>Do not make more than one ap</li> </ul>	oblication per ve	ar.

CROP	PEST	QTS./ACRE	COMMENTS			
CELERY (4)	Green Peach Aphid, Cabbage	<sup>2</sup> /3 - 1 <sup>1</sup> / <sub>3</sub>	Make application when insects appear or feeding is noticed.			
(Except	Looper, Leafhopper					
California)	Armyworm, Flea Beetle, Whitefly	1 1/a				
	Do not make more than one a					
	<del></del>		dient (i.e., 1 1/3 qts.) per acre per year.			
CELERY (4)	Green Peach Aphid, Cabbage	²/3 - 1 ¹/3	Make application when insects appear or feeding is noticed.			
(California only)	Looper	<del> </del>				
	Flea Beetle, Whitefly	1 1/3	<u> </u>			
	Do not make more than one a					
C#1 FDV /7\			dient (i.e., 1 1/3 qts.) per acre per year.			
CELERY (7)	Green Peach Aphid	2/3	Make applications when insects appear or feeding is noticed.			
	Do not make more than 2 app     Do not exceed a maximum of		r. dient (i.e., 1 ½ qts.) per acre per year.			
CHERRIES	Peachtree Borer, Lesser	2 % - 3 % or	Best control is obtained with a single application post-harvest during the firs			
(21) (Except	Peachtree Borer	1 gt. per 100	week of September. Spray all bark areas from ground level to lower scaffold			
California)	1 555757	gals.	limbs.			
,	Black Cherry Aphid, Green	2 2/3 - 3 1/3 or	Make applications when insects appear or feeding is noticed. Pacific			
	Fruitworm, Plum Rust (Nursery)	²/s qt. per	Northwest Only: Eyespotted Bud Moth, Fruittree Leafroller: Use 1/3 qt. pe			
	Mite	100 gals.	100 gals or 2 3/3 - 3 1/3 qts. per acre. For bud moth control apply at "popcom			
		ſ	stage. For leafroller control, apply during pre-pink stage of growth. Michigan			
	1	ł	Only: Mineola Moth: Use 1 1/3 qts, per 100 gals. Apply in the delayed dorman			
	D	1	period.			
	L		ock to graze in treated orchards.			
	Do not make more than 2 app     Do not exceed a maximum of		r. edient (i.e., 4 qts.) per acre per year.			
CHERRIES	Black Cherry Aphid, Plum Rust	2 <sup>2</sup> / <sub>3</sub> - 3 <sup>1</sup> / <sub>3</sub> or	Make applications when insects appear or feeding is noticed.			
(21) (California	(Nursery) Mite	2/3 qt. per 100	тако аррисацию мном явось арреат и тевиту в пишеи.			
nly)	(10.00.),	gals.				
,,	Do not feed cull fruits to anim					
	Do not make more than 2 app					
			edient (i.e., 4 qts.) per acre per year.			
CHERRY,	Peachtree Borer	2 <sup>2</sup> / <sub>3</sub> per 40	Mix thoroughly, Immerse trees so that the roots and crowns are covered we			
PEACH, PLUM	1	gals.	above the grafting bud scar. NOTE: Plant immediately or dry before returning			
(Nursery Stock	j		stock to storage. Full personal protective equipment (PPE) requirements for			
Dip)	 		applicators also apply to this dipping operation.			
CITRUS (Non-	Citrus Aphid	3 1/3 or 1/3 per	Make applications when insects appear or feeding is noticed.			
bearing Trees and Nursery	Do not onclude hearing trace	] 100 gals.				
Stock)	Do not make more than 2 app		bear fruit within twelve months.			
,			edient (i.e., 4 qts.) per acre per year			
COLLARDS	Aphid, Cabbage Looper,	1 - 1 1/3	Make application when insects appear or feeding is noticed.			
(21) (Except	Diamondback Moth Larvae, Fall	<b>1</b>	There approved the models appeal of locality to florides.			
California)	Armyworm, Flea Beetle,	1				
,	Harlequin Bug, Imported	]				
	Cabbageworm, Leafhopper					
	Whitefly	1 1/3				
	<ul> <li>Do not make more than one a</li> </ul>					
		<del>~~~~~~~~</del>	dient (i.e., 1 1/3 gts.) per acre per year.			
COLLARDS	Aphid, Cabbage Looper,	1	Make application when insects appear or feeding is noticed.			
(21) (California	Diamondback Moth Larvae, Flea	}				
only)	Beetle, Harlequin Bug, Imported Cabbageworm, Whitefly	)				
	Do not make more than one a	polication per use	ar			
			ar. edient (i.e., 1 qt.) per acre per year.			
COTTON	Aphid	1/2 - 1	Make applications when insects appear or feeding is noticed. For control			
(Except	Boll Weevil	<i>1</i> / <sub>3</sub> - 2	of aphids, thorough coverage is important. NOTE: Applications may be			
California)	Bolworm, Cabbage Looper.	1 1/3 - 2	made using ground or aerial application equipment. The higher rate should			
<b></b>	Cotton Leafperforator, Cotton	[	be used under heavy pest pressure.			
	Leafworm, Fleahopper, Lygus					
	Bug, Stink Bug, Tobacco	<b>j</b>				
	Budworm					
	Thrips	2	<u></u>			
	Thrips  • Do not apply after bolls open.	2				
	<ul> <li>Do not apply after bolls open.</li> <li>Do not graze meat or dairy an</li> </ul>	imals in treated fi	ields. edient (i.e., 4 qts.) per acre per year.			

CROP	PEST	QTS./ACRE	COMMENTS			
COTTON	Aphid	1/2 - 1	Make applications when insects appear or feeding is noticed. For control			
(California only)	Boll Weevil	₹3 - 2	of aphids, thorough coverage is important. NOTE: Applications may be			
	Bollworm, Cabbage Looper, Cotton Leafperforator, Fleahopper, Lygus Bug, Stink- Bug	1 1/3 - 2	made using ground or aerial application equipment. The higher rate should be used under heavy pest pressure.			
	Thrips	2	1			
	Whitefly	1 1/3				
	Do not apply after bolls open.     Do not graze meat or dairy an		ields edient (i.e., 4 qts.) per acre per year.			
CUCUMBERS, MELONS, PUMPKINS, SUMMER and WINTER SQUASH, (2)	Aphid, Cucumber Beetle, Melonworm, Pickleworm, Rindworm (on watermelons), Squash Beetle, Squash Bug, Squash Vine Borer, Striped Flea Beetle	<sup>2</sup> / <sub>9</sub> - 1 <sup>1</sup> / <sub>9</sub>	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.			
(Except California)	Cabbage Looper, Omnivorous Leafroller, Whitefly	1 1/3				
	Do not make more than 6 app	ilcations per year	T.			
CUCUMBERS,	Do not exceed a maximum of     Aphid. Cucumber Beetle.	3 lbs, active ingr	edient (i.e., 4 qts.) per acre per year.  Make applications when insects appear or feeding is noticed. For squash			
MELONS, PUMPKINS, SUMMER and WINTER SQUASH (2)	Mekonworm, Pickleworm, Rindworm (on watermelons), Squash Beetle, Squash Bug, Squash Vine Borer, Striped Flea Beetle	73 - 1 73	vine borer control, apply weekly to flower buds, stems and vines beginning when moths first appear.			
(California only)	Cabbage Looper, Omnivorous Leafroller, Whitefly	1 1/3				
	Do not make more than 3 appl					
	Do not exceed a maximum of	3 lbs, active ingr	edient (i.e., 4 qts.) per acre per year.			
EGGPLANT (1) (Except California)	Blister Beetle, Colorado Potato Beetle, Flea Beetle, Green Peach Aphid, Green Stink Bug	²/a - 1 ¹/a	Make applications when insects appear or feeding is noticed.			
	Whitefly	1 1/3				
	<ul> <li>Do not make more than 2 appl</li> </ul>	ications per yea	f,			
		1 lb. active ingre	dient (i.e., 1 ⅓ qts.) per acre per year.			
EGGPLANT (1) (California only)	Blister Beetle, Colorado Potato Beetle, Flea Beetle, Green Peach Aphid, Green Stink Bug, Whitefly	1 ⅓ pts.	Make application when insects appear or feeding is noticed.			
	Do not make more than one approximation.	pplication per ye	ar.			
	<ul> <li>Do not exceed a maximum of</li> </ul>	1/2 lb. active ingre	edient (i.e., 1 1/3 pts.) per acre per year.			
GRAPES (7)	Grape Leafhopper, Grape Phylloxera (leaf form), Rose Chafer	1 1/3 - 2 or <sup>2</sup> /3 qt, per 100 gals.	Make applications when insects appear or feeding is noticed.			
	<ul> <li>Ground application is preferred</li> </ul>	<ul> <li>Do not use on Concord varieties as severe plant injury is likely to occur.</li> <li>Ground application is preferred.</li> </ul>				
	<ul> <li>Do not make more than 3 appl</li> <li>Do not exceed a maximum of 3</li> </ul>		r. edient (i.e., 4 qts.) per acre per year.			
KALE (21)	Cabbage Flea Beetle, Harlequin Bug, Imported Cabbageworm	1	Make application when insects appear or feeding is noticed.			
	<ul> <li>Do not make more than one approximation</li> </ul>					
			edient (i.e., 1 qt.) per acre per year.			
LETTUCE (14) (Except California)	Cabbage Looper, Diamondback Moth Larvae, Green Peach Aphid, Imported Cabbageworm,	1 - 1 1/3	Make applications when insects appear or feeding is noticed.			
,	Leafhopper					
	Armyworm, Whitefly	1 1/3				
	NOTE: On Head Lettuce: For a Leaf Lettuce: For all uses, do r     Do not feed crop refuse to live.	not make more th	exceed 3 applications after thinning. Remove wrapper leaves at harvest. On nan 2 applications per year.			
	·		edient (i.e., 4 qts.) per acre per year.			

CROP	PEST	QTS./ACRE	COMMENTS
LETTUCE (14) (California only)	Cabbage Looper, Diamondback Moth Larvae, Green Peach	1 - 1 1/3	Make applications when insects appear or feeding is noticed.
	Aphid, Imported Cabbageworm Whitefly	1 1/3	
	NOTE: On Head Lettuce: For	all uses, do not e	exceed 3 applications after thinning. Remove wrapper leaves at harvest. On
	Leaf Lettuce: For all uses, do     Do not feed crop refuse to live	stock.	., .
			edient (i.e., 4 qts.) per acre per year.
MUSTARD GREENS (21) (Except	Aphid, Cabbage Looper, Diamondback Moth Larvae, Fall Armyworm, Flea Beetle,	1 - 1 1/3	Make application when insects appear or feeding is noticed.
<u> </u>	Harlequin Bug, Imported Cabbageworm, Leafhopper		
	Whitefly	1 1/3	
	Do not make more than one a		
	<ul> <li>Do not exceed a maximum of</li> </ul>	1 lb. active ingre	dient (i.e., 1 1/2 gts.) per acre per year.
MUSTARD GREENS (21)	Aphid, Cabbage Looper, Diamondback Moth Larvae, Flea	1	Make application when insects appear or feeding is noticed.
(California only)	Beetle, Harlequin Bug, Imported Cabbageworm, Whitefly	•	· ·
	Do not make more than one a		
			edient (i.e., 1 qt.) per acre per year.
PEARS (7) (Except California)	Green Fruitworm, Tarnished Plantbug	2 <sup>2</sup> / <sub>3</sub> - 3 <sup>1</sup> / <sub>3</sub> or <sup>2</sup> / <sub>3</sub> qt. per 100 gals.	Make applications at white bud or petal fall when insects appear or feeding is noticed.
oamorna)	Pear Psylla	3 1/3	Apply in a minimum of 10 gals, of water for aerial application or in 300 gals of water for dilute application. Apply when adults are first observed on nymphs are small and repeat to maintain control.
	Pear Rust Mite, Consperse Stink	2 2/3 - 3 1/3 or	Make applications when insects appear or feeding is noticed. Stink bug:
	Bug (foliar treatment)	²/₃ qt. per 100 gals.	must be wet by spray to obtain control.
	Consperse Stink Bug (soil treatment)	²/₃ qt. per 100 gals.	Use 200 to 400 gals, per acre. Apply to orchard floor and around trees prio to bloom.
	Pear Leaf Blister Mite	1/3 - 2/3 qt. per 100 gals.	Apply to trees as a post-harvest or dormant treatment.
	Do not feed cull fruits to anima     Do not make more than 2 app	als or allow livest	ock to graze in treated orchards.
			edient (i.e., 4 qts.) per acre per year.
	<ul> <li>Aerial application may not res</li> </ul>	ult in satisfactory	control and should only be employed if impossible to apply by ground.
PEARS (7) (California only)	Pear Psylla	3 1/3	Apply in a minimum of 10 gals of water for aerial application or in 300 gals of water for dilute application. Apply when adults are first observed or nymphs are small and repeat to maintain control.
	Pear Rust Mite, Consperse Stink Bug (foliar treatment)	2 <sup>2</sup> / <sub>3</sub> - 3 <sup>1</sup> / <sub>3</sub> or <sup>2</sup> / <sub>3</sub> qt. per 100	Make applications when insects appear or feeding is noticed. Stink bugs must be wet by spray to obtain control.
	Consperse Stink Bug (soil treatment)	gals. ²/₃ qt. per 100 gals.	Use 200 to 400 gals, per acre. Apply to orchard floor and around trees prior to bloom.
	Pear Leaf Blister Mite	1/ <sub>3</sub> - <sup>2</sup> / <sub>3</sub> qt. per 100 gals.	Apply to trees as a post-harvest or dormant treatment.
	Do not feed cult fruits to anima		ock to graze in treated orchards.
	Do not make more than 2 app		<del>-</del>
	· ·		edient (i.e., 4 qts.) per acre per year.
			control and should only be employed if impossible to apply by ground.
PECANS	Black Pecan Aphid, Pecan Nut	1 qt. per 100	Make applications when insects appear or feeding is noticed. For
(Except California)	Casebearer, Spittlebug	gals.	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 spittlebug, apply when first leaves are half grown and repeat as required.
	Pecan Leaf Phylloxera	²/₃ - 1 qt. per 100 gals.	Apply when nymphs appear and before they are enclosed in plant tissue For high populations, use the higher rate.
!	<ul> <li>Do not apply after shuck split.</li> </ul>		
	Do not graze livestock on orch	ard crops or grad	sses in treated areas.
ļ	Do not make more than 2 app		
1			edient (i.e., 4 gts.) per acre per year.
PEPPERS (1)	Flea Beetle, Green Peach Aphid,	2/3	Make applications when insects appear or feeding is noticed.
211 2110 (1)	Hornworm, Pepper Maggot		
. 2. 1 2.10 (1)	Hornworm, Pepper Maggot     Do not make more than 2 app	lications per veal	· · · · · · · · · · · · · · · · · · ·

CROP	PEST	QTS./ACRE	COMMENTS			
PEPPERS (4)	Armyworm, Flea Beetle, Green	²/3 - 1 ¹/3	Make applications when insects appear or feeding is noticed.			
(Except	Peach Aphid, Hornworm,	1				
California)	Leafhopper, Pepper Maggot Whitefly	1 1/3				
	Do not make more than 2 applications per year.					
			ont (i.e., 2 ½ gts.) per acre per year.			
PEPPERS (4)	Flea Beetle, Green Peach Aphid,	²/3 - 1 ¹/3	Make applications when insects appear or feeding is noticed.			
(California only)	Hornworm, Pepper Maggot	<u>[</u>				
	Whitefly	1 1/3				
	<ul> <li>Do not make more than 2 applications per year.</li> <li>Do not exceed a maximum of 2 lbs, active ingredient (i.e., 2 % qts.) per acre per year.</li> </ul>					
PINEAPPLE	Pineapple Fruit Mite	2 - 2 3/3	Make applications when insects appear or feeding is noticed. Apply at			
(For Fresh Market Only) (7)		1	intervals of 7 to 10 days if necessary, particularly during the 40 day period of blooming.			
Market Only) (7)	Do not feed treated forage or pine	annia by produc				
	Do not make more than 2 applicate		S to hydrock.			
	Do not exceed a maximum of 3 lb		nt (i.e., 4 ots.) per acre per year.			
PLUMS (7),	Fruittree Leafroller (Pacific Northwest	2 <sup>2</sup> / <sub>3</sub> - 3 <sup>1</sup> / <sub>3</sub> or	Apply during pre-pink stage of growth when insects appear or feeding is			
PRUNES (7)	Only)	²/₂ ot, per 100	noticed.			
		gals.				
	Aphids (including Hop Aphid,	2 ²/3 - 3 <sup>1</sup> /3 Or	For control of aphids, apply when eggs hatch during pre-bloom or petal			
	Leafcurl Plum Aphid, Thistie Aphid),	²/₃ qt, per 100	fall. Summer applications should be made before leaves curl.			
	Plum Rust (Nursery) Mite	gals.				
	Peach Twig Borer	2 <sup>2</sup> / <sub>3</sub> - 3 <sup>1</sup> / <sub>3</sub> or <sup>2</sup> / <sub>3</sub> at, per 100	Make applications when insects appear or feeding is noticed.			
		gals.				
	Lesser Peachtree Borer, Peachtree	2 <sup>2</sup> / <sub>3</sub> - 3 <sup>1</sup> / <sub>3</sub> or	West Coast: Use 1/3 - 1 qt, per 100 gals, or 2 1/3 - 3 1/3 qts. per acre. Besi			
ì	Borer	3/3 qt. per 100	control is obtained with a single application post-harvest during the first			
		gals.	week of September. Spray all bark areas from ground level to lower			
Į.			scaffold limbs.			
ĺ	<ul> <li>Do not allow livestock to graze on</li> </ul>	orchard crops of	r grasses in treated areas.			
	Do not allow livestock to graze on orchard crops or grasses in treated areas.  Do not make more than 2 applications per year.					
1	<ul> <li>Do not make more than 2 applicat</li> </ul>	ions per year.				
	<ul> <li>Do not make more than 2 applicat</li> <li>Do not exceed a maximum of 3 lb</li> </ul>	ions per year. s. active ingredie				
POTATOES (1)	Do not make more than 2 applicat     Do not exceed a maximum of 3 lb Aphid, Armyworm, Cabbage Looper,	ions per year.	Make applications when insects appear or feeding is noticed.			
POTATOES (1)	Do not make more than 2 applicat     Do not exceed a maximum of 3 lb. Aphid, Armyworm, Cabbage Looper, Colorado Potato Beetle, Green Stink	ions per year. s. active ingredie	Make applications when insects appear or feeding is noticed.  POTATOES—CHEMIGATION:			
POTATOES (1)	Do not make more than 2 applicate     Do not exceed a maximum of 3 lb. Aphid, Armyworm, Cabbage Looper, Colorado Potato Beetle, Green Stink Bug, Leaffootted Bug, Plant Bug,	ions per year. s. active ingredie	Make applications when insects appear or feeding is noticed.  POTATOES—CHEMIGATION:  For application by irrigation system, apply specified dosage of Gowan			
POTATOES (1)	Do not make more than 2 applicat     Do not exceed a maximum of 3 lb. Aphid, Armyworm, Cabbage Looper, Colorado Potato Beetle, Green Stink	ions per year. s. active ingredie	Make applications when insects appear or feeding is noticed.  POTATOES—CHEMIGATION:  For application by irrigation system, apply specified dosage of Gowan			
POTATOES (1)	Do not make more than 2 applicate     Do not exceed a maximum of 3 lb. Aphid, Armyworm, Cabbage Looper, Colorado Potato Beetle, Green Stink Bug, Leaffootted Bug, Plant Bug, Potato Flea Beetle, Potato	ions per year. s. active ingredie	Make applications when insects appear or feeding is noticed.  POTATOES—CHEMIGATION:  For application by irrigation system, apply specified dosage of Gowan Endosulfan 3EC per acre. Follow all directions given under			
POTATOES (1)	Do not make more than 2 applicate     Do not exceed a maximum of 3 lb. Aphid, Armyworm, Cabbage Looper, Colorado Potato Beetle, Green Stink Bug, Leaffootted Bug, Plant Bug, Potato Flea Beetle, Potato Leafftopper, Potato Tuberworm, Threelined Potato Beetle European Corn Borer, Potato Psyllid	ions per year. s. active ingredie 2/3 - 1 1/3 1 - 1 1/3	Make applications when insects appear or feeding is noticed.  POTATOES—CHEMIGATION:  For application by irrigation system, apply specified dosage of Gowan Endosulfan 3EC per acre. Follow all directions given under			
POTATOES (1)	Do not make more than 2 applicate     Do not exceed a maximum of 3 lb. Aphid, Armyworm, Cabbage Looper, Colorado Potato Beetle, Green Stink Bug, Leaffootted Bug, Plant Bug, Potato Flea Beetle, Potato Leaftopper, Potato Tuberworm, Threelined Potato Beetle European Com Borer, Potato Psyllid False Chinch Bug, Whitefly	ions per year. s. active ingredie 2/3 - 1 1/3 1 - 1 1/3 1 1/3	Make applications when insects appear or feeding is noticed.  POTATOES—CHEMIGATION:  For application by irrigation system, apply specified dosage of Gowan Endosulfan 3EC per acre. Follow all directions given under			
POTATOES (1)	Do not make more than 2 applicate Do not exceed a maximum of 3 lb. Aphid, Armyworm, Cabbage Looper, Colorado Potato Beetle, Green Stink Bug, Leaffootted Bug, Plant Bug, Potato Flea Beetle, Potato Leafthopper, Potato Tuberworm, Threelined Potato Beetle European Corn Borer, Potato Psyllid False Chinch Bug, Whitefly  Do not make more than 6 applicate.	ions per year. s. active ingredie 2/3 - 1 1/3 1 - 1 1/3 1 1/3 ions per year.	Make applications when insects appear or feeding is noticed.  POTATOES—CHEMIGATION:  For application by irrigation system, apply specified dosage of Gowan Endosulfan 3EC per acre. Follow all directions given under CHEMIGATION USE INSTRUCTIONS section of this label.			
	Do not make more than 2 applicate Do not exceed a maximum of 3 lb. Aphid, Armyworm, Cabbage Looper, Colorado Potato Beetle, Green Stink Bug, Leaffootted Bug, Plant Bug, Potato Flea Beetle, Potato Leafftopper, Potato Tuberworm, Threelined Potato Beetle European Corn Borer, Potato Psyllid False Chinch Bug, Whitefly Do not make more than 6 applicate	ions per year. s. active ingredie 2/3 - 1 1/3 1 - 1 1/3 1 1/3 ions per year. s. active ingredie	Make applications when insects appear or feeding is noticed.  POTATOES—CHEMIGATION:  For application by irrigation system, apply specified dosage of Gowan Endosulfan 3EC per acre. Follow all directions given under CHEMIGATION USE INSTRUCTIONS section of this label.  Int (i.e., 4 qts.) per acre per year.			
SPINACH (21)	Do not make more than 2 applicate Do not exceed a maximum of 3 lb. Aphid, Armyworm, Cabbage Looper, Colorado Potato Beetle, Green Stink Bug, Leaffootted Bug, Plant Bug, Potato Flea Beetle, Potato Leafhopper, Potato Tuberworm, Threelined Potato Beetle European Corn Borer, Potato Psyllid False Chinch Bug, Whitefly Do not make more than 6 applicate Do not exceed a maximum of 3 lb. Armyworm, Crown Mite, Flea Beetle,	ions per year. s. active ingredie 2/3 - 1 1/3 1 - 1 1/3 1 1/3 ions per year.	Make applications when insects appear or feeding is noticed.  POTATOES—CHEMIGATION:  For application by irrigation system, apply specified dosage of Gowan Endosulfan 3EC per acre. Follow all directions given under CHEMIGATION USE INSTRUCTIONS section of this label.			
SPINACH (21) (Except	Do not make more than 2 applicate Do not exceed a maximum of 3 lb. Aphid, Armyworm, Cabbage Looper, Colorado Potato Beetle, Green Stink Bug, Leaffootted Bug, Plant Bug, Potato Flea Beetle, Potato Leafftopper, Potato Tuberworm, Threelined Potato Beetle European Corn Borer, Potato Psyllid False Chinch Bug, Whitefly Do not make more than 6 applicate	ions per year. s. active ingredie 2/3 - 1 1/3 1 - 1 1/3 1 1/3 ions per year. s. active ingredie	Make applications when insects appear or feeding is noticed.  POTATOES—CHEMIGATION:  For application by irrigation system, apply specified dosage of Gowan Endosulfan 3EC per acre. Follow all directions given under CHEMIGATION USE INSTRUCTIONS section of this label.  Int (i.e., 4 qts.) per acre per year.			
SPINACH (21) (Except	Do not make more than 2 applicate     Do not exceed a maximum of 3 lb. Aphid, Armyworm, Cabbage Looper, Colorado Potato Beetle, Green Stink Bug, Leaffootted Bug, Plant Bug, Potato Flea Beetle, Potato Leafhopper, Potato Tuberworm, Threelined Potato Beetle European Com Borer, Potato Psyllid False Chinch Bug, Whitefly     Do not make more than 6 applicate     Do not exceed a maximum of 3 lb. Armyworm, Crown Mite, Flea Beetle, Green Peach Aphid, Leafhopper	ions per year. s. active ingredie  2/3 - 1 1/3  1 - 1 1/3  1 1/3  ions per year. s. active ingredie  1 - 1 1/3	Make applications when insects appear or feeding is noticed.  POTATOES—CHEMIGATION:  For application by irrigation system, apply specified dosage of Gowan Endosulfan 3EC per acre. Follow all directions given under CHEMIGATION USE INSTRUCTIONS section of this label.  Int (i.e., 4 qts.) per acre per year.			
SPINACH (21) (Except	Do not make more than 2 applicate Do not exceed a maximum of 3 lb. Aphid, Armyworm, Cabbage Looper, Colorado Potato Beetle, Green Stink Bug, Leaffootted Bug, Plant Bug, Potato Flea Beetle, Potato Leafhopper, Potato Tuberworm, Threelined Potato Beetle European Corn Borer, Potato Psyllid False Chinch Bug, Whitefly Do not make more than 6 applicate Do not exceed a maximum of 3 lb. Armyworm, Crown Mite, Flea Beetle, Green Peach Aphid, Leafhopper Whitefly	ions per year. s. active ingredie  1-1 1/3  1-1 1/3  ions per year. s. active ingredie  1-1 1/3	Make applications when insects appear or feeding is noticed.  POTATOES—CHEMIGATION:  For application by irrigation system, apply specified dosage of Gowan Endosulfan 3EC per acre. Follow all directions given under CHEMIGATION USE INSTRUCTIONS section of this label.  Int (i.e., 4 qts.) per acre per year.			
SPINACH (21) (Except	Do not make more than 2 applicate Do not exceed a maximum of 3 lb. Aphid, Armyworm, Cabbage Looper, Colorado Potato Beetle, Green Stink Bug, Leaffootted Bug, Plant Bug, Potato Flea Beetle, Potato Leafhopper, Potato Tuberworm, Threelined Potato Beetle European Com Borer, Potato Psyllid False Chinch Bug, Whitefly Do not make more than 6 applicate Do not exceed a maximum of 3 lb. Armyworm, Crown Mite, Flea Beetle, Green Peach Aphid, Leafhopper  Whitefly Do not make more than one applicate	ions per year. s. active ingredie  2/3 - 1 1/3  1 - 1 1/3  1 1/3  ions per year. s. active ingredie  1 - 1 1/3  2 1 1/3  cation per year.	Make applications when insects appear or feeding is noticed.  POTATOES—CHEMIGATION:  For application by irrigation system, apply specified dosage of Gowan Endosulfan 3EC per acre. Follow all directions given under CHEMIGATION USE INSTRUCTIONS section of this label.  Int (i.e., 4 qts.) per acre per year.  Make application when insects appear or feeding is noticed.			
<b>SPINACH</b> (21) (Except California)	Do not make more than 2 applicate Do not exceed a maximum of 3 lb. Aphid, Armyworm, Cabbage Looper, Colorado Potato Beetle, Green Stink Bug, Leaffootted Bug, Plant Bug, Potato Flea Beetle, Potato Leafhopper, Potato Tuberworm, Threelined Potato Beetle European Com Borer, Potato Psyllid False Chinch Bug, Whitefly Do not make more than 6 applicate Do not exceed a maximum of 3 lb. Armyworm, Crown Mite, Flea Beetle, Green Peach Aphid, Leafhopper  Whitefly Do not make more than one applicate Do not exceed a maximum of 1 lb.	ions per year. s. active ingredie  1 - 1 1/3  1 - 1 1/3  ions per year. s. active ingredie  1 - 1 1/3  active ingredien. active ingredien.	Make applications when insects appear or feeding is noticed.  POTATOES—CHEMIGATION:  For application by irrigation system, apply specified dosage of Gowan Endosulfan 3EC per acre. Follow all directions given under CHEMIGATION USE INSTRUCTIONS section of this label.  Int (i.e., 4 qts.) per acre per year.  Make application when insects appear or feeding is noticed.  It (i.e., 1 1/3 qts.) per acre per year.			
SPINACH (21) (Except California) SPINACH (21)	Do not make more than 2 applicate Do not exceed a maximum of 3 lb. Aphid, Armyworm, Cabbage Looper, Colorado Potato Beetle, Green Stink Bug, Leaffootted Bug, Plant Bug, Potato Flea Beetle, Potato Leafhopper, Potato Tuberworm, Threelined Potato Beetle European Com Borer, Potato Psyllid False Chinch Bug, Whitefly Do not make more than 6 applicate Do not exceed a maximum of 3 lb. Armyworm, Crown Mite, Flea Beetle, Green Peach Aphid, Leafhopper  Whitefly Do not make more than one applicate Do not exceed a maximum of 1 lb. Crown Mite, Flea Beetle, Green	ions per year. s. active ingredie  2/3 - 1 1/3  1 - 1 1/3  1 1/3  ions per year. s. active ingredie  1 - 1 1/3  2 1 1/3  cation per year.	Make applications when insects appear or feeding is noticed.  POTATOES—CHEMIGATION:  For application by irrigation system, apply specified dosage of Gowan Endosulfan 3EC per acre. Follow all directions given under CHEMIGATION USE INSTRUCTIONS section of this label.  Int (i.e., 4 qts.) per acre per year.  Make application when insects appear or feeding is noticed.			
SPINACH (21) (Except California) SPINACH (21)	Do not make more than 2 applicate Do not exceed a maximum of 3 lb. Aphid, Armyworm, Cabbage Looper, Colorado Potato Beetle, Green Stink Bug, Leaffootted Bug, Plant Bug, Potato Flea Beetle, Potato Leaftopper, Potato Tuberworm, Threelined Potato Beetle European Com Borer, Potato Psyllid False Chinch Bug, Whitefly Do not make more than 6 applicate Do not exceed a maximum of 3 lb. Armyworm, Crown Mite, Flea Beetle, Green Peach Aphid, Leaftopper  Whitefly Do not make more than one applicated that the provided that the potential of	ions per year. s. active ingredie  2/3 - 1 1/3  1 - 1 1/3  ions per year. s. active ingredie  1 - 1 1/3  cation per year. active ingredien  1	Make applications when insects appear or feeding is noticed.  POTATOES—CHEMIGATION:  For application by irrigation system, apply specified dosage of Gowan Endosulfan 3EC per acre. Follow all directions given under CHEMIGATION USE INSTRUCTIONS section of this label.  Int (i.e., 4 qts.) per acre per year.  Make application when insects appear or feeding is noticed.  It (i.e., 1 1/3 qts.) per acre per year.			
SPINACH (21) (Except California) SPINACH (21)	Do not make more than 2 applicate Do not exceed a maximum of 3 lb. Aphid, Armyworm, Cabbage Looper, Colorado Potato Beetle, Green Stink Bug, Leaffootted Bug, Plant Bug, Potato Flea Beetle, Potato Leaffoopper, Potato Tuberworm, Threelined Potato Beetle European Corn Borer, Potato Psyllid False Chinch Bug, Whitefly Do not make more than 6 applicate Do not exceed a maximum of 3 lb. Armyworm, Crown Mite, Flea Beetle, Green Peach Aphid, Leafhopper Whitefly Do not make more than one applicate Do not exceed a maximum of 1 lb. Crown Mite, Flea Beetle, Green Peach Aphid, Whitefly Do not make more than one applicate Peach Aphid, Whitefly Do not make more than one applicate Peach Aphid, Whitefly	ions per year. s. active ingredie  1-1 1/3  1-1 1/3  ions per year. s. active ingredie  1-1 1/3  cation per year. active ingredien  1  cation per year.	Make applications when insects appear or feeding is noticed.  POTATOES—CHEMIGATION:  For application by irrigation system, apply specified dosage of Gowan Endosulfan 3EC per acre. Follow all directions given under CHEMIGATION USE INSTRUCTIONS section of this label.  Int (i.e., 4 qts.) per acre per year.  Make application when insects appear or feeding is noticed.  It (i.e., 1 ½ qts.) per acre per year.  Make application when insects appear or feeding is noticed.			
SPINACH (21) (Except California) SPINACH (21) (California only)	Do not make more than 2 applicate Do not exceed a maximum of 3 lb. Aphid, Armyworm, Cabbage Looper, Colorado Potato Beetle, Green Stink Bug, Leaffootted Bug, Plant Bug, Potato Flea Beetle, Potato Leaffoopper, Potato Tuberworm, Threelined Potato Beetle European Corn Borer, Potato Psyllid False Chinch Bug, Whitefly Do not make more than 6 applicate Do not exceed a maximum of 3 lb. Armyworm, Crown Mite, Flea Beetle, Green Peach Aphid, Leafhopper Whitefly Do not make more than one applicate Do not exceed a maximum of 1 lb. Crown Mite, Flea Beetle, Green Peach Aphid, Whitefly Do not make more than one applicate Po not make more than one applicate Do not exceed a maximum of 1 lb. Crown Mite, Flea Beetle, Green	ions per year. s. active ingredie  2/3 - 1 1/3  1 - 1 1/3  ions per year. s. active ingredien  1 - 1 1/3  cation per year. active ingredien  2 - active ingredien  1 - active ingredien  2 - active ingredien  3 - active ingredien  4 - active ingredien	Make applications when insects appear or feeding is noticed.  POTATOES—CHEMIGATION:  For application by irrigation system, apply specified dosage of Gowan Endosulfan 3EC per acre. Follow all directions given under CHEMIGATION USE INSTRUCTIONS section of this label.  Int (i.e., 4 qts.) per acre per year.  Make application when insects appear or feeding is noticed.  It (i.e., 1 ½ qts.) per acre per year.  Make application when insects appear or feeding is noticed.			
SPINACH (21) (Except California)  SPINACH (21) (California only)  STRAW-	Do not make more than 2 applicate Do not exceed a maximum of 3 lb. Aphid, Armyworm, Cabbage Looper, Colorado Potato Beetle, Green Stink Bug, Leaffootted Bug, Plant Bug, Potato Flea Beetle, Potato Leaffoopper, Potato Tuberworm, Threelined Potato Beetle European Corn Borer, Potato Psyllid False Chinch Bug, Whitefly Do not make more than 6 applicate Do not exceed a maximum of 3 lb. Armyworm, Crown Mite, Flea Beetle, Green Peach Aphid, Leafhopper Whitefly Do not make more than one applicate Do not exceed a maximum of 1 lb. Crown Mite, Flea Beetle, Green Peach Aphid, Whitefly Do not make more than one applicate Peach Aphid, Whitefly Do not make more than one applicate Peach Aphid, Whitefly	ions per year. s. active ingredie  1-1 1/3  1-1 1/3  ions per year. s. active ingredie  1-1 1/3  cation per year. active ingredien  1  cation per year.	Make applications when insects appear or feeding is noticed.  POTATOES—CHEMIGATION:  For application by irrigation system, apply specified dosage of Gowan Endosulfan 3EC per acre. Follow all directions given under CHEMIGATION USE INSTRUCTIONS section of this label.  Int (i.e., 4 qts.) per acre per year.  Make application when insects appear or feeding is noticed.  It (i.e., 1 ½ qts.) per acre per year.  Make application when insects appear or feeding is noticed.			
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SPINACH (21) (Except California)  SPINACH (21) (California only)  STRAW- BERRIES (4)	Do not make more than 2 applicate Do not exceed a maximum of 3 lb. Aphid, Armyworm, Cabbage Looper, Colorado Potato Beetle, Green Stink Bug, Leaffootted Bug, Plant Bug, Potato Flea Beetle, Potato Leaffooper, Potato Tuberworm, Threelined Potato Beetle European Corn Borer, Potato Psyllid False Chinch Bug, Whitefly Do not make more than 6 applicate Do not exceed a maximum of 3 lb. Armyworm, Crown Mite, Flea Beetle, Green Peach Aphid, Leafhopper  Whitefly Do not make more than one applice Do not exceed a maximum of 1 lb. Crown Mite, Flea Beetle, Green Peach Aphid, Whitefly Do not make more than one applice Do not exceed a maximum of 3/2 lb. Meadow Spittlebug, Strawberry Aphid, Tarnished Plant Bug, Whitefly Do not reapply within 15 days or medical point and provided the point and point and point application on the point and poin	ions per year. s. active ingredie  1 - 1 1/3  1 1/3  ions per year. s. active ingredie  1 - 1 1/3  cation per year. active ingredien  1  cation per year. active ingredien  1 1/3  nore than twice dions per year. s. active ingredie  2 2/3 in 400  gals.	Make applications when insects appear or feeding is noticed.  POTATOES—CHEMIGATION:  For application by Irrigation system, apply specified dosage of Gowan Endosulfan 3EC per acre. Follow all directions given under CHEMIGATION USE INSTRUCTIONS section of this label.  Int (i.e., 4 qts.) per acre per year.  Make application when insects appear or feeding is noticed.  Int (i.e., 1 ½ qts.) per acre per year.  Make application when insects appear or feeding is noticed.  Int (i.e., 1 qt.) per acre per year.  Make applications when insects appear or feeding is noticed.  Int (i.e., 4 qts.) per acre per year.  Make applications when fruit is present.  Int (i.e., 4 qts.) per acre per year.  Make applications when insects appear or feeding is noticed. Thoroughly			
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CROP	PEST	QTS./ACRE	COMMENTS		
SWEET CORN	Corn Leaf Aphid, Whitefly	1 1/3	Make applications when insects appear or feeding is noticed.		
(Fresh Vegetable Use Only) (1)	Com Earworm	2	Apply when silks first appear and continue until they begin to dry. Allow stays between applications.		
	Do not apply to sweet corn to be processed.				
			ck or allow livestock to graze in treated fields.		
	<ul> <li>Do not make more than 3 appli</li> </ul>				
			dient (i.e., 4 qts.) per acre per year.		
SWEET POTATOES (1) (Except California)	Sweet Potato Flea Beetle, Sweet Potato Weevil	?/s	Make applications when insects appear or feeding is noticed. For fle beetle control, begin applications shortly after transplanting or as soon a flea beetles appear. For sweet potato weevil control, apply in sufficier water for complete coverage. Applications may be made to transplants in the nursery and/or in the field. Repeat applications may be made a necessary up to 3 per year. For sweet potato weevil control in a clean uprogram, apply at a rate of 2 ½ qts. per acre to the soil under the sweet potato nursery beds and to the area immediately surrounding the nurser beds.		
	Do not place the seed tubers d	rectly on the gro	<u> </u>		
	•	• •	restock to graze in treated fields.		
	Do not make more than 3 appli	cations per year.	·		
	<ul> <li>Do not exceed a maximum of 3</li> </ul>	lbs. active ingre	dient (i.e., 4 qts.) per acre per year.		
	Whitefly	1 1/3	Make applications when insects appear or feeding is noticed.		
	Banded Cucumber Beetle Larvae	1 1/3 - 2 2/3	Broadcast ½ to 1 qt. per acre on a 16 inch band over the row (48 inch		
	(aids in control) (South Central		row spacing). Work into the soil to a depth of approximately 3 inches		
•	States and Puerto Rico Onty)	<u> </u>	Treatment should be made just prior to plant set.		
	<ul> <li>Do not feed cull potatoes to live</li> <li>Do not make more than 3 appli</li> </ul>		estock to graze in treated fields.		
			dient (i.e., 4 qts.) per acre per year.		
SWEET	Sweet Potato Flea Beetle, Sweet	7/3	Make applications when insects appear or feeding is noticed. For flea beet		
POTATOES (1) California only)	Potato Weevil	,	control, begin applications shortly after transplanting or as soon as fle beetles appear. For sweet potato weevil control, apply in sufficient water for complete coverage. Applications may be made to transplants in the nurser and/or in the field. Repeat applications may be made as necessary up to		
	<u></u>	1	per year.		
			estock to graze in treated fields.		
	Do not make more than 3 applies		and the state of the control of the		
TOBACCO (5)	Aphids (including Green Peach	<sup>2</sup> / <sub>3</sub> qt. per 100	redient (i.e., 2 qts.) per acre per year.  Seed Bed: Make applications when insects appear or feeding is noticed.		
(Except California)	Aphid, Tobacco Aphid), Budworm, Cabbage Looper, Flea Beetle, Hornworm	gals.	Apply about 6 gals. of finished spray per 100 square yards.		
	Green June Bug Larvae	²/₃ pt. per 100 gals.	Plant Bed: Make applications when insects appear or feeding is noticed Drench at a rate of 1 gal, per square yard.		
	Aphids (including Green Peach Aphid, Tobacco Aphid), Budworm, Cabbage Looper, Flea Beetle, Green June Bug Larvae, Hornworm	₹3 - 1 ¥3	Field: Make applications when insects appear or feeding is noticed.		
!	Stink Bug	²/a qt. per 100 gals.	Field: Make applications when insect activity or feeding is noticed.		
	Do not make more than 6 applications	cations per year.			
		lbs, active ingred	dient (i.e., 4 qts.) per acre per year.		
FOMATOES Field and Greenhouse) (2)	Aphid, Blister Beetle, Colorado Potato Beetle, Flea Beetle, Tomato Hornworm	<sup>2</sup> / <sub>3</sub> - 1 <sup>1</sup> / <sub>3</sub>	Make applications when insects appear or feeding is noticed.		
Except California)	Cabbage Looper, Stink Bug	1 to 1 1/3			
	Tomato Fruitworm, Tomato Russet Mite, Whitefly, Yellowstriped Armyworm	1 1/3			
	Whitefly	²/₃ qt. per 100 gals.	Use 100-200 gals, of spray per acre. Make applications when insects appear or feeding is noticed. Higher spray volumes may be necessar for thorough coverage when high whitefly populations exist.		
	<ul> <li>Do not make more than 6 applik</li> <li>Do not exceed a maximum of 3</li> </ul>		dient (i.e., 4 qts. ) per acre per year.		

CROP	PEST	QTS./ACRE	COMMENTS		
TOMATOES	Aphid, Blister Beetle, Colorado	²/3 - 1 ¹/3	Make applications when insects appear or feeding is noticed.		
(Field and	Potato Beetle, Flea Beetle,				
Greenhouse) (2) (California only)	Tomato Homworm, Webworm				
	Cabbage Looper, Stink Bug	1 - 1 1/3			
	Tomato Fruitworm, Tomato Russet	1 1/3			
	Mite, Whitefly, Yellowstriped				
	Armyworm				
	Whitefly	²/₃ qt. per	Use 100-200 gals, of spray per acre. Make applications when insects		
		100 gals.	appear or feeding is noticed. Higher spray volumes may be necessary for thorough coverage when high whitefly populations exist.		
	Do not make more than 6 applications	cations per year.			
	<ul> <li>Do not exceed a maximum of 3</li> </ul>	lbs. active ingre	dient (i.e., 4 qts.) per acre per year.		
WALNUTS	Walnut Aphid	2 - 2 2/3	Apply in a minimum of 100 gals. of water per acre. Make applications		
(Except California)			when insects appear or feeding is noticed.		
	Do not apply after husk split.				
	Do not graze livestock on orcha	rd crops or gras	ses in treated areas.		
	Do not make more than 2 applications				
			dient (i.e., 4 gts.) per acre per year.		

ORNAMENTAL STATEMENT

Before treating a large number of ornamental plants with Gowan Endosulfan 3EC alone or as a tank mixture with any other material, make a test application on a few plants and observe for 7 - 10 days prior to treating large areas to reduce the possibility of plant injury.

NOTE: Food utensils such as teaspoons must not be used for food purposes after use in measuring pesticides.

**ORNAMENTAL TREES AND SHRUBS** 

ORNAMENTALS  Aphid, Cyclamen Mite, Rose Chafer, Whitefly  Do not apply to "Bonnafon De Do not use on Birch trees. Do not use on Birch trees. Do not exceed a maximum o Dogwood Borer, Lilac Borer  Lilac (Except California)  Do not exceed a maximum o Aphid, Cooley Spruce Gall Adelgid, Douglas Fir Needle Midgid, Douglas	2/3	feeding is noticed. On chrysanthemums, best results will be obtained if
ORNAMENTALS  Aphid, Cyclamern Mite, Rose Chafer, Whitefly  Do not apply to "Bonnafon De Do not use on Birch trees. Do not exceed a maximum or Dogwood Borer, Lilac Borer  Lillac (Except California)  DOUGLAS FIR (Grown for Ornamentals, Nursery Stock or Christmas Trees) (Pacific Northwest Only)  PINES (Austrian, Jack, Red, Scotch, White) (Except California)  PHOES (Austrian, Jack, Red, Scotch, White) (Except California)  SHADE TREES (Except Birch), SHRUBS  SPRUCE (New England Area	2/3	(1 $\frac{11}{3}$ teaspoons per gallon). Make applications when insects appear or feeding is noticed. On chrysanthemums, best results will be obtained if
Chafer, Whitefly  Do not apply to "Bonnafon De Do not use on Birch trees. Do not exceed a maximum of Dogwood Borer, Lilac Borer  Lilac (Except California) DOUGLAS FIR (Grown for Ornamentals, Nursery Stock or Christmas Trees) (Pacific Northwest Only) Do not exceed a maximum of Dogwood Borer, Lilac Borer  Aphid, Cooley Spruce Gall Adelgid, Douglas Fir Needle Midge M	<u> </u>	(1 $\frac{1}{1}$ 3 teaspoons per gallon). Make applications when insects appear or feeding is noticed. On chrysanthemums, best results will be obtained if
Do not use on Birch trees.     Do not exceed a maximum of Dogwood, California      Do not exceed a maximum of Douglas Fir Needle Midgo Ornamentals, Nursery Stock or Christmas Trees) (Pacific Northwest Only)  PINES (Austrian, Jack, Red, Scotch, White) (Except California)  SHADE TREES (Except Birch), SHRUBS  SPRUCE (New England Area  Dogwood Borer, Lilac Borer  Aphid, Cooley Spruce Gall  Adelgid, Douglas Fir Needle Midgo  Aphid, Cooley Spruce Gall  Adelgid, Douglas Fir Needle Midgo  Aphid, Cooley Spruce Gall  Adelgid, Douglas Fir Needle Midgo  Aphid, Cooley Spruce Gall  Adelgid, Douglas Fir Needle Midgo  Aphid, Cooley Spruce Gall  Adelgid, Douglas Fir Needle Midgo  Aphid, Cooley Spruce Gall  Adelgid, Douglas Fir Needle Midgo  Aphid, Cooley Spruce Gall  Adelgid, Douglas Fir Needle Midgo  Do not exceed a maximum of Dogwood Borer, Lilac Borer  Aphid, Cooley Spruce Gall  Adelgid, Douglas Fir Needle Midgo  Do not exceed a maximum of Dogwood Borer, Lilac Borer  Aphid, Cooley Spruce Gall  Adelgid, Douglas Fir Needle Midgo  Do not exceed a maximum of Dogwood Borer, Lilac Borer  Aphid, Cooley Spruce Gall  Adelgid, Douglas Fir Needle Midgo  Do not exceed a maximum of Dogwood Borer, Lilac Borer  Aphid, Cooley Spruce Gall  Adelgid, Douglas Fir Needle Midgo  Do not exceed a maximum of Dogwood Borer, Lilac Borer  Aphid, Cooley Spruce Gall  Adelgid, Douglas Fir Needle Midgo  Do not exceed a maximum of Dogwood Borer, Lilac Borer  Aphid, Cooley Spruce Gall  Adelgid, Douglas Fir Needle Midgo  Do not exceed a maximum of Dogwood Borer, Lilac Borer  Aphid, Cooley Spruce Gall  Adelgid, Douglas Fir Needle Midgo  Dogwood Borer, Lilac Borer  Aphid, Cooley Spruce Gall  Adelgid, Douglas Fir Needle Midgo  Do not exceed a maximum of Dogwood Borer  Dogwood Borer, Lilac Borer  Aphid, Cooley Spruce Gall  Adelgid, Douglas Fir Needle Midgo  Dogwood Borer, Lilac Borer  Aphid, Cooley Spruce Gall  Adelgid, Douglas Fir Needle Midgo  Dogwood Borer, Lilac Borer  Aphid, Cooley Spruce Gall  Adelgid, Douglas Fir Needle Midgo  Dogwood Borer, Lilac Bor	aluxe", "Fred Shoe	applied before plants flower.
DOGWOOD, LILAC (Except California)  DO not exceed a maximum of Aphid, Cooley Spruce Gall Adelgid, Douglas Fir Needle Midge Ornamentals, Nursery Stock or Christmas Trees) (Pacific Northwest Only)  PINES (Austrian, Jack, Red, Scotch, White) (Except California)  SHADE TREES (Except Birch), SHRUBS  Plogwood Borer, Lilac Borer  Aphid, Cooley Spruce Gall Adelgid, Douglas Fir Needle Midge Adelgid, Douglas Fir Needle Midge  Only  Do not exceed a maximum of Aphid  Do not exceed a maximum of Aphid  Plogwood Borer, Lilac Borer  Aphid, Cooley Spruce Gall Adelgid, Douglas Fir Needle Midge  Only  Do not exceed a maximum of Aphid  Do not exceed a maximum of Aphid  Spruce Gall Aphid	f 3 lbs. active ingre	smith", and "White Knight" chrysanthemums as injury may result.
DOUGLAS FIR (Grown for Ornamentals, Nursery Stock or Christmas Trees) (Pacific Northwest Only)  PINES (Austrian, Jack, Red, Scotch, White) (Except California)  SHADE TREES (Except Birch), SHRUBS  PAphid, Cooley Spruce Gall Adelgid, Douglas Fir Needle Midgion  Do not exceed a maximum of Maximum of Aphid  Do not exceed a maximum of Aphid  Do not exceed a maximum of Aphid  SPRUCE (New England Area	²/₃ - 1 ¹/₃	(1 ½ - 2 ½ teaspoons per gallon). Apply in early June and repeat in 10 to 14 days. Drench all bark areas down to the ground level.
(Grown for Ornamentals, Nursery Stock or Christmas Trees) (Pacific Northwest Only)  PINES (Austrian, Jack, Red, Scotch, White) (Except California)  SHADE TREES (Except Birch), SHRUBS  SPRUCE (New England Area  Adelgid, Douglas Fir Needle Midgrand Adelgid, Douglas Fir Needle Midgrand Fire Needle Midgran		
PINES (Austrian, Jack, Red, Scotch, White) (Except California)  SHADE TREES (Except Birch), SHRUBS  SPRUCE (New England Area  Zimmerman Pine Moth  Do not exceed a maximum of Aphid  Do not exceed a maximum of Spruce Gall Aphid		(1 ½ teaspoons per gallon). Make applications when insects appear or feeding is noticed. For control of gall adelgid, apply when white cottony tufts appear. For control of needle midge, apply in late April or early May just before buds open.
Jack, Red, Scotch, White) (Except California)  SHADE TREES (Except Birch), SHRUBS  SPRUCE (New England Area  Do not exceed a maximum of the second and the s	3 lbs. active ingre	edient (i.e., 4 qts.) per acre per year.
SHADE TREES (Except Birch), SHRUBS  Do not exceed a maximum o SPRUCE (New England Area  Aphid  Do not exceed a maximum o	1	(2 teaspoons per gallon). Apply in mid-April and again, if necessary, in late fall. Thoroughly wet bark and main stem, especially where branches join main stem.
(Except Birch), SHRUBS  • Do not exceed a maximum o  SPRUCE (New England Area  Spruce Gall Aphid	3 lbs. active ingre	edient (i.e., 4 qts.) per acre per year.
SPRUCE (New Spruce Gall Aphid England Area	2/3	(1 ½ teaspoons per gallon). Make applications when insects appear or feeding is noticed.
England Area	3 lbs. active ingre	edient (i.e., 4 qts.) per acre per year.
Only) • Do not exceed a maximum o	1/3	(1 1/3 teaspoons per gallon). Apply in late April or early May when aphids are present but before galls are formed.
	i 3 lbs. active ingr∈	edient (i.e., 4 qts.) per acre per year.
TAXUS Taxus Bud Mite	7/3	(1 ½ teaspoons per gallon). Make 3 to 5 applications beginning in mid- May. Thoroughly spray foliage, twigs, and bark.
Black Vine Weevil	1 1/3	(2 <sup>2</sup> / <sub>3</sub> teaspoons per gallon). Spray thoroughly and drench soil under the plants. Apply when the weevils first appear and repeat in 14 days.

## CHEMIGATION STATEMENT CHEMIGATION USE INSTRUCTIONS — POTATOES ONLY

Do not apply this product through any type of irrigation system to other crops. Do not apply this product to potatoes through any type of irrigation system unless the Chemigation Application Instructions are followed.

#### **APPLICATION THROUGH IRRIGATION SYSTEMS - CHEMIGATION**

Apply this product only through sprinkler, including center pivot, lateral move, end tow side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Mix in clean supply tank the recommended amount of this product for acreage to be covered, and needed quantity of water.

This product should not be tank-mixed with other pesticides, surfactants or fertilizers unless prior use has shown the combination noninjurious under your conditions of use. Follow precautionary statements and directions for all tank-mix products.

On all crops, use sufficient gallonage of water to obtain thorough and uniform coverage, but not cause runoff or excessive leaching. This will vary depending on equipment, pest problem and stage of crop growth. Application of more or less than optimal quantity of water may result in decreased chemical performance, crop injury or lilegal pesticide residues.

Meter this product into the irrigation water uniformly during the period of operation. Do not overlap application. Follow recommended label rates, application timing, and other directions and precautions for crop being treated. Continuous mild agitation of pesticide mixture may be needed to assure a uniform application, particularly if the supply tank requires a number of hours to empty.

Do not apply when wind speed favors drift beyond the area intended for treatment.

#### CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

Note: Gowan Company does not encourage connecting chemigation systems to public water supplies. The following information is provided for users who have diligently considered all other application and water supply options before electing to make such a connection.

Public water systems means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of a least 25 individuals daily at least 60 days out of the year. Chemigation systems connected to public water systems must contain a functional reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from a point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of a least twice the inside diameter of the fill pipe.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shutdown.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of material that are compatible with pesticides and capable of being fitted with a system interlock.

#### SPRINKLER CHEMIGATION (FOLIAR SPRAY USES)

The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

# 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 FOR USE IN CALIFORNIA

(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.
- Do not apply more than 1 ½ lbs. a.i. per acre per application or more than 3 lbs. a.i. 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 catibrated 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 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% 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.
- Fixed wing aircraft and helicopters operating in excess of 60 mph shall be equipped with jet nozzles having an orifice not less than <sup>1</sup>/<sub>16</sub> 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 whirtplate may be used.
- 11. For ground applications, equipment other than handguns shall be equipped with nozzles having an orifice not less than  $^1I_{16}$  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

- FIELDS, WITH NO DRAINS, HAVING CONTAINMENT THROUGH BERMS (able to hold irrigation water and normal rainwater), LEVEES AND NON-DRAINING CIRCULATION SYSTEMS.
- 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 CHANNELED DRAINAGE AND ARE AT LEAST 300 FEET LONG.

#### UNACCEPTABLE SITES FOR ENDOSULFAN 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 DIÉGO CRÉEK 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 LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF PESTICIDE APPLICATION.

#### STORAGE AND DISPOSAL

PESTICIDE STORAGE: Do not store in or around the home. Do not store below 20°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 a 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 or disposal.

In case of spill, 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.

## FOR 24-HOUR EMERGENCY ASSISTANCE (SPILL, LEAK, OR FIRE), CALL CHEMTREC® (800) 424-9300. For other product information, contact Gowan Company or see Material Safety Data Sheet.

#### 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. The buyer must assume all responsibility including injury or damage, resulting from its misuse as such, or in combination with other materials.

EPA Text: Endosulfan 3EC (12-6-99)