

WARNING

Keep out of reach of children. Hazardous if swallowed, inhaled or absorbed through the skin. Do not get in eyes, skin or clothing. Do not breathe vapor or spray mist. Wash thoroughly with soap and water after handling and before eating and smoking; wear clean clothing after use. Wear clean synthetic rubber gloves and a mask and respirator of a type passed by the U. S. Bureau of Mines for endosulfan protection during mixing, spraying and loading operations. Do not apply or allow to drift to areas occupied by unprotected humans or beneficial animals. Workers entering treated fields within 24 hours of application should wear protective clothing.

This product is toxic to fish and wildlife. Birds feeding on treated area may be killed. Keep out of any body of water. Do not contaminate domestic or irrigation water by cleaning of equipment or disposal of wastes. Do not apply when weather conditions favor drift from area treated.

This product is toxic to bees. Do not apply when bees are actively visiting the treatment area.

DO NOT USE OR STORE NEAR HEAT OR OPEN FLAME.
DO NOT STORE AT TEMPERATURES BELOW 20°F.

ANTIDOTE

EXTERNAL—In case of contact, immediately remove contaminated clothing and flush skin or eyes with plenty of water; for eyes get medical attention.

INTERNAL:

NOTE TO PHYSICIAN: This product contains endosulfan which is a central nervous system stimulant and may cause convulsions. There is no specific antidote. Barbituric acid derivatives may be used in treatment.

CONTAINER DISPOSAL

Do not reuse empty container. Destroy it by burying with waste or burning; Stay away from smoke or fumes.

NOTICE

Because Velsicol Chemical Corporation has no control over storage, handling, and conditions of use, which are of critical importance, Velsicol Chemical Corporation makes no representation or warranty, either express or implied, for results or residues greater than any tolerance which may be established by appropriate governmental agencies, due to misuse, improper handling or storage of this material. Nor does Velsicol Chemical Corporation assume any responsibility for injury to persons, crops, animals, soil or property arising out of misuse, improper handling or storage of this material.

70116-140AB

ACC
MAY
Under the Fungicide, or as amended, registered with EPA Reg. 1

VELSICOL®

TIOVEL 50% W.P.

INSECTICIDE

WARNING

KEEP OUT OF THE REACH OF CHILDREN

See Side Panel for Additional Precautionary Statements

DIRECTIONS FOR USE

Crop	Insect	Rate of Tiovel 50% WP/Acre	Remarks
Apples	Apple aphid Red apple aphid	1 pound (1/2 lb. endosulfan) to 100 gallons of water or 4 to 5 pounds (2 to 2 1/2 lb. endosulfan) per acre	Do not use for 30 days after application
	Apple aphid Woolly apple aphid	Western Area: 3/4 pound (3/8 lb. endosulfan) to 100 gallons of water Other Areas: 1 pound (1/2 lb. endosulfan) to 100 gallons of water	Do not use during fruiting
Celery	Green peach aphid	1 pound (1/2 lb. endosulfan)	Do not use
	Cabbage looper Green peach aphid	1 to 2 pounds (1/2 to 1 lb. endosulfan)	Do not use
Cherries	Black cherry aphid Plum nursery mite	1 pound (1/2 lb. endosulfan) to 100 gallons of water or 4 to 5 pounds (2 to 2 1/2 lb. endosulfan) per acre	Do not use
	Lesser peach tree borer	1 1/2 pounds (3/4 lb. endosulfan) to 100 gallons of water or 4 to 5 pounds (2 to 2 1/2 lb. endosulfan) per acre	Spray, scuff, or wash with water after application
	Peach tree borer	Western Area: 1 1/2 pounds (3/4 lb. endosulfan) to 100 gallons of water Other Areas: 1 to 2 pounds (1/2 to 1 lb. endosulfan) to 100 gallons of water	Do not use
	Minnesota moth (Michigan only)	2 pounds (1 lb. endosulfan)	Apply during bud break
Cider Crops	Eye-spotted bud moth Fruit tree leaf roller (Pacific Northwest only)	1 pound (1/2 lb. endosulfan)	For bud stage For leaf stage
	Cole Crops Broccoli Brussels sprouts Cabbage Cauliflower	Cabbage aphid Cabbage looper Cross-striped cabbage worm Diamond-back moth larvae Fly Beetle Harlequin bug Imported cabbage-worm Stinkbug	1 1/2 to 2 pounds (3/4 to 1 lb. endosulfan)
Lettuce (Head)	Cabbage looper Diamond-back moth larvae Green peach aphid Imported cabbage-worm	1 1/2 to 2 pounds (3/4 to 1 lb. endosulfan)	Do not use for 30 days after application
Peaches Apricots Nectarines	Car-facing insects Green peach aphid Peach twig borer	West Coast: 8 pounds (4 lb. endosulfan) Other Areas: 1 pound (1/2 lb. endosulfan) to 100 gallons of water or 4 to 5 lb. (2 to 2 1/2 lb. endosulfan/acre)	Do not use during fruiting

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DIRECTIONS FOR USE

Crop	Insect	Rate of Tiovel 50% WP/Acre	Remarks
Apples	Apple aphid apple aphid	1 to 2 pounds endosulfan to 10 gallons of water per acre	Do not apply within 7 days of harvest
	Apple aphid apple aphid	Western Area 1/2 pound endosulfan to 10 gallons of water per acre Other Areas 1 pound endosulfan to 10 gallons of water per acre	Do not apply within 7 days of harvest
Cereals	Green peach aphid	1 pound endosulfan	Do not apply within 7 days of harvest
	Cabbage looper Green peach aphid	1 to 2 pounds endosulfan	Do not apply within 7 days of harvest
Cherries	Black cherry aphid Pumpkin vine	1 pound endosulfan to 10 gallons of water per acre 2 to 2 1/2 pounds endosulfan per acre	Do not apply within 7 days of harvest
	Green peach aphid	1 pound endosulfan to 10 gallons of water per acre 2 to 2 1/2 pounds endosulfan per acre	Do not apply within 7 days of harvest
	Green peach aphid	Eastern Areas 1/2 pound endosulfan to 10 gallons of water per acre Western Areas 1 pound endosulfan to 10 gallons of water per acre	Do not apply within 7 days of harvest
	Michigan Michigan	1 pound endosulfan	Do not apply within 7 days of harvest
Cole Crops	Eye spotted moth Fruit tree leaf miner Pacific North west only	1 pound endosulfan	For blossom stage and fruit stage
	Cabbage aphid Cabbage looper Cross striped cabbageworm Diamond back moth larvae Flax beetle Harlequin bug Imported cab bage worm Stinkbug	1 to 2 pounds endosulfan	Do not apply within 7 days of harvest
Lettuce Head	Cabbage looper Diamond back moth larvae Green peach aphid Imported cabbageworm	1 to 2 pounds endosulfan	Do not apply within 7 days of harvest
Peaches Apricots Nectarines	Cat facing insects Green peach aphid Peach twig borer	West Coast 1/2 pound endosulfan to 10 gallons of water per acre Other Areas 1 pound endosulfan to 10 gallons of water per acre 4 to 5 lb. 2 to 2 1/2 endosulfan acre	Do not apply within 7 days of harvest

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Make application when insects first appear and repeat applications as necessary. (Do not exceed the maximum number of applications listed in the limitations section.) For ground application use a minimum of 20 gallons of water per acre. For aerial application use sufficient water to make 1 gallon of finished spray per acre to be treated.

Crop	Insect	Rate of Tiovel 50% WP/Acre	Limitations	Crop	Insect	Rate of Tiovel 50% WP/Acre	Limitations
Apples	Apple aphid Rosy apple aphid	1 pound (1/2 lb. endosulfan) to 100 gallons of water or 4 to 5 pounds (2 to 2 1/2 lb. endosulfan) per acre	Do not feed pomace from treated apples to livestock. For 3 applications or less during the fruiting period, do not make application within 21 days of harvest. When making more than 3 applications during the fruiting period, do not make application within 30 days of harvest.	Peaches Apricots Nectarines	Lesser peach tree borer	1 1/2 pound (3/4 lb. endosulfan) to 100 gallons of water	Wet trunks and main branches thoroughly. Do not make more than 2 applications during the fruiting season. Do not apply within 30 days of harvest.
	Apple aphid Woolly apple aphid	Western Area: 3/4 pound (3/8 lb. endosulfan) to 100 gallons of water Other Areas: 1 pound (1/2 lb. endosulfan) to 100 gallons of water	Do not make more than 2 applications during the fruiting period. Do not apply within 30 days of harvest. Do not feed pomace from treated apples to livestock.		Peach silver mite	1/2 pound (1/4 lb. endosulfan) to 100 gallons of water or 4 to 5 pounds (2 to 2 1/2 lb. endosulfan) per acre	Do not make more than 2 applications during the fruiting season. Do not apply within 30 days of harvest.
Celery	Green peach aphid	1 pound (1/2 lb. endosulfan)	Do not apply within 7 days of harvest.	Peaches	Peach tree borer	Western Area: 1 pound (1/2 lb. endosulfan) to 100 gallons of water Other Areas: 2 1/2 pounds (3/4 lb. endosulfan) to 100 gallons of water	Spray all bark areas from ground level to scaffold limbs as necessary. Do not apply within 21 days of harvest.
	Cabbage looper Green peach aphid	1 to 2 pounds (1/2 to 1 lb. endosulfan)	Do not make more than 3 applications per season. Do not apply within 4 days of harvest.		Black cherry aphid Black peach aphid Rusty plum aphid	1 pound (1/2 lb. endosulfan) to 100 gallons of water or 4 to 5 pounds (2 to 2 1/2 lb. endosulfan) per acre	Do not make more than 2 applications during the fruiting season. Do not apply within 30 days of harvest.
Cherries	Black cherry aphid Peach nursery mite	1 pound (1/2 lb. endosulfan) to 100 gallons of water or 4 to 5 pounds (2 to 2 1/2 lb. endosulfan) per acre	Do not apply more than twice after shuck split. Do not apply within 21 days of harvest.	Potatoes	Aphids Colorado potato beetle Flea beetle Green stink bug Leaf-footed plant bug Leafhopper Potato tuberworm Southern armyworm Whitefly	1 to 2 pounds (1/2 to 1 lb. endosulfan)	Apply as needed up to harvest. Do not plant root crops other than carrots, potatoes or sweet potatoes as follow up crops.
	Lesser peach tree borer	1 1/2 pounds (3/4 lb. endosulfan) to 100 gallons of water or 4 to 5 pounds (2 to 2 1/2 lb. endosulfan) per acre	Spray all bark areas from ground level to scaffold limbs. Time application with moth flight. Do not make more than 2 applications after shuck split. Do not apply within 21 days of harvest.		European corn borer Potato psyllid	1 1/2 to 2 pounds (3/4 to 1 lb. endosulfan)	
	Peach tree borer	Eastern Area: 1 1/2 pounds (3/4 lb. endosulfan) to 100 gallons of water Western Area: 1 to 1 1/2 pounds (1/2 to 3/4 lb. endosulfan) to 100 gallons of water			False chinch bug	2 pounds (1 lb. endosulfan)	
Cucumbers (Michigan only)	Wineola moth	2 pounds (1 lb. endosulfan)	Apply during delayed dormant period.	Tobacco	Three-lined potato beetle	1 pound (1/2 lb. endosulfan)	
	Eye-spotted bud moth Fruit tree leaf roller (Pacific Northwest only)	1 pound (1/2 lb. endosulfan)	For bud moth apply during "popcorn" stage of growth. For leaf roller apply during pre-pink stage of growth.		Budworm Cabbage looper Flea beetle Green peach aphid Hornworm	Seed bed: 1 pound (1/2 lb. endosulfan) to 100 gallons of water Field: 1 to 2 pounds (1/2 to 1 lb. endosulfan)	Apply about 5 gallons of spray per 100 square yards. Do not apply within 5 days of harvest.
	Eye-spotted bud moth Fruit tree leaf roller (Pacific Northwest only)	1 pound (1/2 lb. endosulfan)	For bud moth apply during "popcorn" stage of growth. For leaf roller apply during pre-pink stage of growth.		Green June bug larvae	1/2 pound (1/4 lb. endosulfan) to 100 gallons of water	Apply as a drench at first sign of larval activity using 1 gallon of mixture per square yard of plant bed.
Cauliflower	Cabbage aphid Cabbage looper Cross-striped cabbageworm Diamond-back moth larvae Flea beetle Hornworm Imported cabbage-worm Stinkbug	1 1/2 to 2 pounds (3/4 to 1 lb. endosulfan)	On cabbage or broccoli, do not apply within 7 days of harvest. On Brussels sprouts or cauliflower, do not apply within 14 days of harvest.	Tomatoes	Stink bugs	2 to 3 pounds (1 to 1 1/2 lb. endosulfan) to 100 gallons of water	Do not apply within 5 days of harvest.
	Lettuce (Head)	Cabbage looper Diamond-back moth larvae Green peach aphid Imported cabbage-worm	1 1/2 to 2 pounds (3/4 to 1 lb. endosulfan)		Do not make more than 3 applications after thinning. Do not apply within 14 days of harvest. Remove wrapper leaves at harvest. Do not feed crop refuse to livestock.	Aphids Blister beetle Colorado potato beetle Flea beetle Whitefly	1 pound (1/2 lb. endosulfan)
Peaches Apricots Nectarines		Cat-facing insects Green peach aphid Peach twig borer	West Coast: 3 pounds (4 lb. endosulfan) to 100 gallons of water Other Areas: 1 pound (1/2 lb. endosulfan) to 100 gallons of water or 4 to 5 lb. (2 to 2 1/2 lb. endosulfan/acre)	Do not make more than 2 applications during the fruiting season. Do not apply within 30 days of harvest.	Tomatoes (Field and greenhouse)	Stinkbugs	1 1/2 to 2 pounds (3/4 to 1 lb. endosulfan)
	Walnuts	Walnut aphid	3 to 4 pounds (1 1/2 to 2 lb. endosulfan)	Do not apply after huck split. Do not graze livestock in treated groves.		Cabbage looper	1 1/2 pounds (3/4 lb. endosulfan)
					Hornworm	1 to 2 pounds (1/2 to 1 lb. endosulfan)	
				Tomato fruitworm Yellow-striped armyworm	2 pounds (1 lb. endosulfan)	Apply when insects first appear and repeat as required. Do not apply within 1 day of harvest.	