

2008

## 2008 Chart Book: Cautions

University of Massachusetts Amherst Cranberry Station

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# Cautions

## CAUTIONS

<u>Fungicides</u>	<u>Maximum allowable formulation</u>	<u>Pre-harvest interval (PHI) (days)</u>	<u>Restricted entry interval</u>	<u>Maximum number of applications</u>
<b>Chlorothalonils (Restricted Use)</b>				
Bravo Weather Stik	19.5 pt	50 days	12 hrs	3
Echo 720	21 pt	50 days	12 hrs	3
Equus 720 SST	20 pt	50 days	12 hrs	3
Chlorothalonil 720	20 pt	50 days	12 hrs	3
Bravo Ultrex	18 lb	50 days	12 hrs	3
Echo 90DF	17.25 lb	50 days	12 hrs	3
Equus DF	18 lb	50 days	12 hrs	3
<b>Coppers</b>				
Champ Formula 2 Flowable	26.6 pt	No PHI	24 hrs	5
Kocide 4.5 LF	16 pt	No PHI	24 hrs	3
3 lb Copper Flowable, Nu-Cop 3L	32 pt	No PHI	24 hrs	3
Top Cop with Sulfur	6 qt	No PHI	24 hrs	3
Champion WP	40 lb	30 days	24 hrs	5
Champ Dry Prill	28 lb	No PHI	24 hrs	5
Cuprofix MZ Disperss	47.3 lb	30 days	24 hrs	3
Kocide DF, Kocide 101, Nu-Cop 50DF	24 lb	No PHI	24 hrs	3
Kocide 2000	18 lb	No PHI	24 hrs	3
Nu-Cop HB	12 lb	No PHI	24 hrs	3
<b>Mancozeb, Manebs</b>				
Manzate Flowable, Manex, Penncozeb 4 FL	14.4 qt	30 days	24 hrs	3
Dithane F-45 Rainshield	14.4 qt	30 days	24 hrs	3
Dithane M-45, Dithane DF RainShield	18 lb	30 days	24 hrs	3
Penncozeb 80WP, Maneb 80 WP	18 lb	30 days	24 hrs	3
Maneb 75 DF, Penncozeb 75DF	18 lb	30 days	24 hrs	3
Manzate 75DF	18 lb	30 days	24 hrs	3
ManKocide	96 lb	30 days	24 hrs	3
<b>Other Products</b>				
Abound F	93 oz	3 days	4 hrs	6
Aliette WDG	20 lb	3 days	12 hrs	4
Ferbam Granuflo	30 lb	50 days	24 hrs	5
Indar 2F	48 oz	30 days	12 hrs	4
Indar 75 WSP	16 oz	30 days	12 hrs	4
Ridomil Gold SL	5.25 pt	45 days	48 hrs	3
Ridomil Gold GR	105 lb	45 days	48 hrs	3
Phostrol	24 pt	3 days	4 hrs	4

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<u>Insecticides</u>	Maximum actual toxicant/A	Pre-harvest interval (PHI)	Restricted entry interval (REI)	Maximum number of applications
<u>Product</u>				
Actara (Thiamethoxam)**	0.188 lb	30 day	12 hrs	(12 oz.)***
Admire, Alias (Imidacloprid)	0.5 lb	30 day	12 hrs	(0.5 lb ai/A)***
Avaunt (Indoxacarb)	0.44 lb	30 day	12 hrs	2 or 4
<i>B.t.</i> based products	NA	No PHI	4 hrs	-
Confirm (Tebufenozide)	1 lb	30 days	4 hrs	4
Delegate (Spinetoram)	0.305 lb	21 days	4 hrs	6
Diazinon *	12 lb	7 days	5 days	3
Diazinon granular *	0.5 lb/1,000 sq ft	7 days	5 days	1
Imidan (Phosmet)	15.6 lbs	14 days	24 hrs/ 3 days	-
Intrepid (Methoxyfenozide)**	1 lb	14 days	4 hrs	4
Lorsban (Chlorpyrifos)*	1.5 lbs	60 days	24 hrs	2
Nematodes	NA	No PHI	0 hrs	-
Nexter	1 lb	21 days	12 hrs	2
Orthene (Acephate)	1 lb	90 days	24 hrs	1
Pyrenone or Pyronyl	60% PBO + 6% Pyrethrins	No PHI	12 hrs	-
Sevin (Carbaryl)	4 lb	7 days	12 hrs	5
SpinTor (Spinosad)	0.45 lb	3 days	4 hrs	6

\* = restricted use pesticide, requires a pesticide license to buy and apply.

\*\* = Zone II restricted and restricted use pesticide, requires a pesticide license to buy and apply.

\*\*\* = No specific application limitations except the total amount applied.

<u>Herbicides</u>	Maximum allowable formulation	Pre-harvest interval (PHI) (days)	Restricted entry interval	Maximum number of applications
<u>Product</u>				
Casoron (dichlobenil)	100 lb	N/A	12 hrs	N/A
Devrinol (napropamide)	150 lb	N/A	12 hrs	1
Evital (norflurazon)	160 lb	N/A	12 hrs	1
Fusilade (fluazifop)	N/A	1 year	12 hrs	N/A
Poast (sethoxydim)	5 pt	60 days	12 hrs	N/A
Princep (simazine)	4 qt	N/A	12 hrs	1
Reglone (diquat dibromide)	N/A	1 year	when dry	N/A
Roundup, Rodeo (glyphosate)	N/A	30 days	12 hrs	N/A
Roundup Weather Max	N/A	30 days	4 hrs	N/A
Select Max (clethodim)	64 oz	30	24 hrs	N/A
Stinger	16 oz	50 days	12 hrs	2
2,4-D granular	N/A	N/A	12 hrs	N/A
Weedar 64	N/A	30 days	48 hrs	1

#### Time Needed for Certain Pesticides to be Rainfast

Confirm, Intrepid	6 hr	Select Max	1 hr
Poast	1 hr	SpinTor	5 hr
Roundup	6 hr	Roundup Ultra	1-2 hr

**Recommended water-holding times:** (Check the label on the product you are using to verify information.)

At least 1 day: Avaunt

At least 3 days: Chlorothalonil products (e.g., Bravo), Nexter, and Diazinon.

At least 5 days: Chlorpyrifos (e.g., Lorsban) products.

At least 14 days: Abound fungicide.

## Cautions

### **WARNING!!**

PESTICIDES ARE POISONOUS. READ AND FOLLOW ALL DIRECTIONS AND SAFETY PRECAUTIONS ON LABELS. HANDLE CAREFULLY AND KEEP ORIGINAL LABELED CONTAINERS IN LOCKED STORAGE AREA. DO NOT CONTAMINATE FORAGE, STREAMS OR PONDS. DISPOSE OF EMPTY CONTAINERS IN A LEGAL MANNER.

REPEATED EXPOSURE TO ORGANOPHOSPHATE (SUCH AS DIAZINON, IMIDAN AND LORSBAN) INSECTICIDES MAY, WITHOUT SYMPTOMS, INCREASE SUSCEPTIBILITY TO PHOSPHATE POISONING. ALL PESTICIDE TREATED BOGS MUST NOT BE ENTERED UNTIL RESTRICTED ENTRY TIMES HAVE ELAPSED (SEE LABEL). WORKERS SHOULD BE NOTIFIED PRIOR TO TREATMENT. TELL FAMILY AND CO-WORKERS. MAKE CERTAIN YOUR DOCTOR UNDERSTANDS. AFTER AN ACCIDENT, THERE MAY NOT BE TIME.

IF SYMPTOMS OF ACUTE PESTICIDE POISONING OCCUR, IMMEDIATELY TAKE VICTIM AND THE APPROPRIATE PESTICIDE LABEL OR CONTAINER TO THE NEAREST HOSPITAL EMERGENCY ROOM. FOR INFORMATION AND ADVICE AT ANY TIME OF DAY OR NIGHT, CALL THE MASSACHUSETTS POISON CONTROL SYSTEM AT:

**1-800-682-9211**

### **REMINDER FOR RESPONSIBLE APPLICATORS**

**REMEMBER THAT LORSBAN, CHLOROTHALONIL PRODUCTS (BRAVO), ABOUND, AND DIAZINON ARE EXTREMELY TOXIC TO FISH AND CAN CAUSE FISH KILLS. SEVIN AND VAPAM ARE ALSO VERY TOXIC TO FISH.**

**TO AVOID CONTAMINATION, DO NOT CLEAN EQUIPMENT OR DISPOSE OF WASTES NEAR OPEN WATER. DRIFT OR RUNOFF OR RELEASE OF CONTAMINATED DITCH WATER FROM TREATED AREAS MAY BE HAZARDOUS TO FISH OR OTHER AQUATIC ORGANISMS IN ADJACENT AQUATIC SITES.**

**FOLLOWING ANY PESTICIDE APPLICATIONS, HOLD WATER AS LONG AS POSSIBLE.**

### **CAUTIONS**

1. Pesticide-treated bogs may need to be posted. Check labels. Workers and scouts should be notified prior to treatments, and informed about re-entry times.
2. **READ AND FOLLOW LABEL INSTRUCTIONS.** Do not use a pesticide for control of a pest not on the label unless a specific recommendation is made by a person authorized to do so.
3. Make all pesticide applications in a manner to prevent contamination of streams, ponds, and public ways, and impound water as long as possible after applying.
4. Be aware of and adhere to guidelines regarding distances from site of chemical application to protected areas. Consider addition of drift retardants.
5. Avoid insecticide applications during bloom if possible to prevent killing bees. Advise beekeeper before spraying.
6. Stored pesticides may deteriorate. Avoid freezing of liquid formulations. It is usually not advisable to use the holdover materials in opened containers. Follow regulations of the Pesticide Bureau when disposing of pesticides and their containers.
7. **CONCENTRATE SPRAYS** may injure new growth, bloom and small berries particularly in hot, humid weather or if the emulsifiable concentrate (EC) content nears 50% of mixture.