



University of
Massachusetts
Amherst

2009 Chart Book: Caution Boxes and Warnings

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| Item Type | public;article |
| Download date | 2025-04-19 10:45:01 |
| Link to Item | https://hdl.handle.net/20.500.14394/9384 |

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> |
|---|--------------------------------------|--|----------------------------------|---------------------------------------|
| Chlorothalonils (Restricted Use) | | | | |
| Bravo Weather Stik, Chlorothalonil 720 SC, Chloronil 720 | 19.5 pt | 50 days | 12 hrs | 3 |
| Echo 720 | 21 pt | 50 days | 12 hrs | 3 |
| Equus 720 SST, Chlorothalonil 720 F | 20 pt | 50 days | 12 hrs | 3 |
| Bravo Ultrex, Equus DF | 18 lb | 50 days | 12 hrs | 3 |
| Echo 90DF | 17.25 lb | 50 days | 12 hrs | 3 |
| Equus 500 ZN | 28.8 pt | 50 days | 12 hrs | 3 |
| Coppers | | | | |
| 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, Champ WG | 40 lb | No PHI | 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, Nu-Cop 50 WP | 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 |
| Kocide 3000 | 10.5 lb | No PHI | 24 hrs | 3 |
| Mancozebs, Manebs | | | | |
| 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 | 18 lb | 30 days | 24 hrs | 3 |
| Penncozeb 75DF | 18 lb | 30 days | 24 hrs | 3 |
| Manzate Pro-Stick | 18 lb | 30 days | 24 hrs | 3 |
| ManKocide | 96 lb | 30 days | 24 hrs | 3 |
| Other Products | | | | |
| 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 |
| Pro Phyt | 32 pt | No PHI | 4 hrs | 4 |

Time Needed for Certain Pesticides to be Rainfast

| | | | | | |
|-------------------|------|------------|------|---------------|--------|
| Callisto | 4 hr | Roundup | 6 hr | Roundup Ultra | 1-2 hr |
| Confirm, Intrepid | 6 hr | Select Max | 1 hr | | |
| Poast | 1 hr | SpinTor | 5 hr | | |

CAUTIONS

| <u>Insecticides</u> | Maximum actual toxicant/A | Pre-harvest interval (PHI) | Restricted entry interval (REI) | Maximum number of applications |
|------------------------------|----------------------------------|-----------------------------------|--|---------------------------------------|
| 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)*** |
| Assail (acetamiprid) | 0.26 lb | 1 day | 12 hrs | 2 |
| 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 |
| 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 (pyridaben) | 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.

Note: Lorsban 75 WG formulation is not restricted use.

| <u>Herbicides</u> | Maximum allowable formulation | Pre-harvest interval (PHI) (days) | Restricted entry interval | Maximum number of applications |
|-----------------------------|--------------------------------------|--|----------------------------------|---------------------------------------|
| Callisto | 16 oz | 45 days | 12 hrs | 2 |
| 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 |

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 and Actara.

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, IMIDAN, 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 heldover materials in opened containers. Follow regulations of the MDAR Pesticide Program 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.