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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460



OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

SEP 9 2002

Mr. Bruce Houtman
Dow AgroSciences, LLC
9330 Zionsville Road
Indianapolis, IN 46268-1054

Subject: Telone II
EPA Reg. No. 62719-32
Submission dated June 7, 2002, Supplemental label for control of Nematodes and the
Suppression of Wireworms in Soils to be Planted to Potatoes or Onions

Dear Mr. Houtman:

The revised product supplemental labeling referred to above, submitted in connection with the registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) as amended, is acceptable provided you incorporate these uses into your main label within 18-months or at your next label printing, whichever comes first.

Submit one copy of the revised final printed label before releasing the product for shipment. A stamped copy of the label is enclosed for your records. If you have questions about this label review, please contact Dennis McNeilly at (703) 308-6742 or electronically at mneilly.dennis@EPA.gov.

Sincerely,

Mary L. Waller
Product Manager (21)
Fungicide Branch
Registration Division (7505C)

Supplemental Labeling



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Dow AgroSciences LLC

9330 Zionsville Road

Indianapolis, IN 46268-1054 USA

Restricted Use Pesticide

Due to high acute inhalation toxicity and carcinogenicity. For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

Telone* II

(EPA Reg. No. 62719-32)

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 62719-32

Control of Nematodes and the Suppression of Wireworms in Soils to be Planted to Potatoes or Onions

(For Distribution and Use Only in Colorado, Idaho, Nevada, Oregon, Utah, Washington and in Modoc and Siskiyou Counties of California)

ATTENTION

- It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
- This labeling must be in the possession of the user at the time of application.
- Read the label affixed to the container for Telone II before applying. Carefully follow all precautionary statements and applicable use directions except as specified below.
- Use of Telone II according to this supplemental labeling is subject to all use precautions and limitations imposed by the label affixed to the container for Telone II.

Directions for Use

For control of Columbia root knot nematode (*Meloidogyne chitwoodi*) in soils to be planted to potatoes, apply Telone* II soil fumigant as described below at the rate of 20 gallons per acre (59 fl oz/1000 ft of row/outlet based on 12-inch centers) in mineral soil and 25 gallons per acre (74 fl oz/1000 ft of row/outlet based on 12-inch centers) in muck soil. In soils to be planted to onions, apply Telone II as described below at the rates of 18 and 25 gallons per acre (53 and 74 fl oz/1000 ft of row/outlet based on 12-inch centers) in mineral and muck soils, respectively. For best results, apply the fumigant consistently at least 18 inches below the final soil surface.

For control of northern root knot nematode (*Meloidogyne hapla*) in soils to be planted to either potatoes or onions, apply Telone II as described below at the rate of 15 to 18 gallons per acre (44-53 fl oz/1000 ft of row/outlet based on 12-inch centers) in mineral soil and 25 gallons per acre (74 fl oz/1000 ft of row/outlet based on 12-inch centers) in muck soil. For best results, apply the fumigant consistently at least 18 inches below the final soil surface. For high populations, use the higher recommended application rate.

For control of stubby-root nematode (*Paratrichodorus* spp.) in soils to be planted to potatoes, apply Telone II as described below at the rate of 20 to 25 gallons per acre (59 - 74 fl oz/1000 ft of row/outlet based on 12-inch centers) in mineral and muck soils. In soils to be planted to onions, apply Telone II as described below at the rates of 18 and 25 gallons per acre (53 and 74 fl oz/1000 ft of row/outlet based on 12-inch centers) for mineral and muck soils, respectively. For best results, apply the fumigant consistently at least 18 inches below the final soil surface.

For suppression of wireworms (*Limonius* spp.) in soils to be planted to potatoes, apply Telone II as described below at the rate of 20 gallons per acre (59 fl oz/1000 ft of row/outlet based on 12-inch

ACCEPTED
with COMMENTS
In EPA Letter Dated |
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centers) in mineral soil and 25 gallons per acre (74 fl oz/1000 ft of row/outlet based on 12-inch centers) in muck soil. In soils to be planted to onions, apply Telone II as described below at the rates of 18 and 25 gallons per acre (53 and 74 fl oz/1000 ft of row/outlet based on 12-inch centers) in mineral and muck soils, respectively. For best results, apply the fumigant consistently at least 18 inches below the final soil surface in the fall.

Application Methods and Equipment: Apply Telone II as a broadcast treatment using either chisel (shank), Nobel (sweep) or modified ParaTill application equipment according to the following recommendations: Except in those conditions described in the next paragraph for Nobel plow equipment, use either chisel equipment with ripper-type shanks or ParaTill equipment modified so that outlet spacing is evenly distributed under the tool bar. With chisel and ParaTill equipment, a shank spacing of 12 to 24 inches is recommended. Do not exceed a shank spacing of 24 inches. Outlet depth should be at least 18 inches below the final soil surface.

Nobel plow equipment may be used only when either shallow soils (those less than 18 inches deep) or soils containing excessive live root material such as alfalfa or corn stubble prevents the use of shank application. Nobel plow outlet spacing should not exceed 12 inches and application should be made to a depth of at least 15 inches. Fumigant penetration may be limited if a plow pan exists below the depth of the Nobel blade.

Do not use plow-sole application.

Soil Sealing: Immediately after fumigation application, use a disc, paddle-wheel, or similar device to uniformly mix the top 4 to 6 inches of soil to effectively eliminate chisel traces. Then follow immediately with a ring roller or cultipacker to seal the soil surface. Little or no crop residue should be exposed at the surface following the sealing operation. Any remaining crop residue should lie flat following sealing.

Undisturbed Soil Interval: Following application and sealing, leave treated soil undisturbed for 7 to 14 days. The longer undisturbed interval may be necessary if the soil is or becomes cold or wet during this period. Allow at least 1 additional week for each 10 gallons of Telone II applied per acre beyond the initial undisturbed interval for fumigant dissipation. Before planting, allow fumigant to dissipate completely. Dissipation is usually complete when the odor of the fumigant is no longer detected within the zone of fumigation. To hasten dissipation following the initial undisturbed interval described above, especially if heavy rains or low temperatures occur during the undisturbed interval, till the soil to the depth of fumigant injection. Use a knife-like chisel without turning the soil to reduce the possibility of recontamination of the fumigated zone within the soil.

Special Precautions:

- Use of Telone II does not guarantee pest-free ~~potatoes~~ crop at harvest.
- Use of Telone II according to these use directions will control only the nematode populations present within the fumigated zone at the time of fumigation. The fumigated zone can vary depending upon a number of factors such as fumigant rate, application methods used, depth of fumigant application, soil moisture, soil type, soil temperature and soil tillth (including soil compaction and soil porosity). Telone II will not control or prevent reinfestation subsequent to the treatment. Subsequent pest populations may infest the fumigated zone from irrigation water, equipment or other sources of contamination or may invade the fumigated zone from surrounding untreated soil such as from beneath the fumigated zone or from unfumigated pockets within the fumigated zone.
- Before fumigation, soil sampling following university soil sampling guidelines, for the type and number of pests present is recommended. Fumigation cannot be expected to eradicate the entire pest population. Therefore, post-treatment/preplant soil sampling, again following university soil sampling guidelines, is recommended to determine the need for additional pest population or other management practices.
- Preharvest soil sampling, following university soil sampling guidelines, and preharvest tuber sampling is recommended to detect developing nematode populations or early tuber infection. For best timing and sampling methods, consult your local extension service, pest control advisor, or your local ~~Dow~~ Dow AgroSciences representative for assistance. If the nematode population in the soil is high enough that the crop may be damaged or if any nematode damage is detected in the tubers, the potatoes should be harvested and marketed immediately. **Do not store nematode-infested tubers.**
- Do not plow the ground in the spring in such a way that inverts the soil prior to a spring fumigation. Such tillage operations should be conducted in the fall to allow winter-kill of residual nematode populations in the top 1 to 2 inches of the soil profile.

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- Following a fall soil fumigation and undisturbed soil interval as described above, a cover crop, such as wheat or grass, can be planted to reduce the potential for soil erosion.
- Refer to the product label affixed to the container for Telone II for recommended soil conditions and additional use precautions for optimum fumigant performance. The user should understand that there is a range of recommended soil conditions under which Telone II may be applied in compliance with the product label affixed to the container for Telone II. Within that range of recommended soil conditions, product performance can be expected to improve as the soil conditions move toward optimum. Use of Telone II under soil conditions outside the recommended range can be expected to yield less than satisfactory performance.

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EPA accepted 10-30-98
Replaces 122-018-001

Revisions: A rate range of 20 to 25 gallons per acre is now recommended for control of stubby-root nematode in soils to be planted to potatoes.