

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.

Product Bulletin

Salt Lake Holding LLC

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2211 H. H. Dow Way

Midland, MI 48674 USA

TELONE™ II

Soil Fumigant

EPA Reg. No. 95290-1

plus

K-PAM® HL

EPA Reg. No. 5481-483

or

Sectagon® 42

EPA Reg. No. 61842-6

Vapam® HL

EPA Reg. No. 5481-468

Sectagon-K54®

EPA Reg. No. 61842-7

Section 2(ee) Recommendation †

For Distribution and Use Only in the States of Colorado, Idaho, Nevada, Oregon, Utah and Washington

Sequential Application of TELONE™ II Soil Fumigant plus K-PAM HL or Sectagon-K54 or Sectagon 42 or Vapam HL for Suppression of *Verticillium dahliae*, Control of Stubby Root Nematode Vector of Corky Ringspot and Control of Root Knot and Lesion Nematodes in Soils to be Planted to Potatoes, Onions and Carrots

ATTENTION

† This recommendation is made as permitted under FIFRA Section 2(ee) and has not been submitted to or approved by EPA.

- It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
- This recommendation must be in the possession of the user at the time of application.
- Read the labels affixed to container for TELONE™ II Soil Fumigant, K-PAM HL, Sectagon-K54, Sectagon 42 and Vapam HL before applying. Carefully follow all precautionary statements and applicable use directions.

Directions for Use

The following use directions provide information for a sequential application program of TELONE™ II Soil Fumigant and K-PAM® HL or Sectagon-K54® or Sectagon® 42 or Vapam® HL Soil Fumigant. For best results, apply TELONE™ II and K-PAM HL or Sectagon-K54 or Sectagon 42 or Vapam HL in the fall. Alternative treatment schedules include a fall application of TELONE™ II followed by a spring application of K-PAM HL or Sectagon-K54 or Sectagon 42 or Vapam HL, a fall application of K-PAM HL or Sectagon-K54 or Sectagon 42 or Vapam HL followed by a spring application of TELONE™ II, or a spring application of both products. Due to time constraints resulting from varying weather conditions, a spring application may result in delayed planting.

Soil Conditions

Soil conditions at the time of application of TELONE™ II that allow rapid diffusion of the fumigant as a gas through the soil normally give best results. Compacted soil layers within the desired treatment zone must be fractured before or during application of the fumigant. Soil temperature must be between 40 and 80°F at the depth of injection, moist from 2 inches below the soil surface as determined by the feel method to be a minimum of 50% available water capacity, free of clods, and with crop residue thoroughly incorporated into the soil at least at the time of application and sealing. Refer to the federal label for additional information on soil conditions necessary to achieve optimum results.

Application Directions for TELONE™ II

Apply TELONE™ II as a broadcast treatment at the minimum rate of 15 gallons per acre (44.3 fl oz per 1000 ft of row/ outlet based on 12-inch centers) using either chisel (shank), Noble (sweep) or modified ParaTill application equipment. Chisel equipment must have ripper-type shanks. ParaTill equipment must be 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. Noble 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. Noble 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 Noble blade. Do not use plow-sole application. Immediately after applying TELONE™ II, 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. Following application and sealing, leave 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.

Application Directions for K-PAM HL or Sectagon-K54 or Sectagon 42 or Vapam HL

Soil conditions at the time of application of K-PAM HL or Sectagon-K54 or Sectagon 42 or Vapam HL must be between 40 and 90°F in the treated zone, and at 50 to 85% field capacity for K-PAM HL or Sectagon-K54 or Sectagon 42 or Vapam HL. If necessary, pre-irrigate about a week prior to treatment to adjust soil moisture to desired levels. Immediately before application, cultivate lightly if the soil has crusted.

Apply K-PAM HL or Sectagon-K54 or Sectagon 42 or Vapam HL either by chemigation or by soil injection or surface incorporation as a sequential application with TELONE™ II. When K-PAM HL or Sectagon-K54 or Sectagon 42 or Vapam HL is used prior to TELONE™ II, allow a minimum of 7 days between treatments. When K-PAM HL or Sectagon-K54 or Sectagon 42 or Vapam HL is applied after TELONE™ II, allow a minimum of 7 days before disturbing the soil or beginning any pre-irrigation for the application of K-PAM HL or Sectagon-K54 or Sectagon 42 or Vapam HL.

For chemigation, apply K-PAM HL or Sectagon-K54 at a minimum rate of 24 gallons per acre or Sectagon 42 or Vapam HL at a minimum rate of 30 gallons per acre in a minimum of 0.5 acre-inch of water to the desired depth of treatment. Heavier soils may require the higher amount of water. Use only those sprinkler systems that give large water droplets to prevent excessive fumigant loss. Do not apply when wind speed favors drift beyond the area intended for treatment or when conditions of thermal inversion exist. If for any reason chemigation is interrupted prior to completion (e.g., excessive wind, equipment malfunction, etc.), back the system up prior to restarting to ensure full application to the area affected prior to shutting down the system and to allow full distribution of the K-PAM HL or Sectagon-K54 or Sectagon 42 or Vapam HL solution throughout the irrigation system prior to moving over untreated soil. After application is completed, flush equipment until all K-PAM HL or Sectagon-K54 or Sectagon 42 or Vapam HL is eliminated from the system. Follow all application directions described in the General Precautions for Irrigation Systems and Sprinkler Chemigation Systems sections in the EPA registered label for K-PAM HL or Sectagon-K54 or Sectagon 42 or Vapam HL.

For soil injection, apply K-PAM HL or Sectagon-K54 at a minimum rate of 24 gallons per acre or Sectagon 42 or Vapam HL at a minimum rate of 30 gallons per acre using either shanks, sweep blades, double-winged shanks, or a Noble Plow blade combined with a surface application. Single shanks should be spaced no more than 6 inches apart with either single injection outlets no more than 6 inches deep or dual injection outlets spaced at 6 and 12 inches deep. Single sweep blades should be spaced no more than 12 inches apart with sweeps 12 inches wide and a spray nozzle that will provide broadcast coverage from sweep tip to sweep tip. Double-winged shanks should be spaced no more than 12 inches apart with no more than 9 inches between adjacent wings and with spray nozzles that provide uniform coverage. The Noble Plow blade should have spray nozzles spaced 6 inches apart to give uniform coverage, an injection depth set at 12 to 14 inches deep, and be combined with a surface application using a disk to immediately incorporate the K-PAM HL or Sectagon-K54 or Sectagon 42 or Vapam HL placed on the surface. Follow all the above applications immediately with a roller/packer to smooth and compact the soil surface.

For surface incorporation, apply K-PAM HL or Sectagon-K54 at a minimum rate of 24 gallons per acre or Sectagon 42 or Vapam HL at a minimum rate of 30 gallons per acre as a broadcast application to the soil surface immediately in front of soil covering equipment such as rotary tillers, disks, etc., to a minimum depth of 6 inches using a single-pass incorporation followed immediately by a roller/packer to smooth and compact the soil surface.

Soil Fumigation Interval

Planting may take place only after odors of either TELONE™ II, K-PAM HL or Sectagon-K54 or Sectagon 42 or Vapam HL are no longer present within the zone of fumigation. If K-PAM HL or Sectagon-K54 or Sectagon 42 or Vapam HL follow TELONE™ II and is applied in the spring with the Noble Plow blade, apply all fertilizers after the application of K-PAM HL or Sectagon-K54 or Sectagon 42 or Vapam HL. Thoroughly aerate the soil 7 days after the application of K-PAM HL or Sectagon-K54 or Sectagon 42 or Vapam HL by shallow plowing and/or disking to allow the fumigant odors to dissipate. Wait 14 to 21 days after the application of K-PAM HL or Sectagon-K54 or Sectagon 42 or Vapam HL before planting the crop. Use the 21-day interval if soil temperatures are below 60°F regardless of any other precautions that may have been taken. In addition to waiting 21 days, set indicator plants (e.g., tomato seedlings) in various places in the treated field and cover the plants with a “hot cap,” plastic sheeting, bucket, etc., to trap and confine any fumes present. Leave the plants undisturbed for a minimum of 24 hours then examine for injury before planting the crop. Do not plant the crop if injury to indicator plants is observed. If fumes are noticeable at planting, rework the soil. If TELONE™ II follows K-PAM HL or Sectagon-K54 or Sectagon 42 or Vapam HL and is applied in the spring, wait at least 1 week for each 10 gallons of TELONE™ II applied beyond the initial undisturbed period before planting the crop. If fumigant odors are present at planting, thoroughly aerate the soil following shallow ripping and/or disking to allow fumigant odors to dissipate. Do not till the soil so deep as to move untreated soil from below the treated zone into the treated soil.

Special Considerations and Precautions:

- Use of this sequential application program of reduced rates of TELONE™ II and K-PAM HL or Sectagon-K54 or Sectagon 42 or Vapam HL does not guarantee pest-free crops at harvest.
- Use of TELONE™ II and K-PAM HL or Sectagon-K54 or Sectagon 42 or Vapam HL according to these use directions will control stubby root, root knot and lesion 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 tilth (including soil compaction and soil porosity). The sequential combination of reduced rates of TELONE™ II and K-PAM HL or Sectagon-K54 or Sectagon 42 or Vapam HL will not control or prevent reinfestation subsequent to the treatments. Subsequent pest populations may infest the fumigated zone from irrigation water, equipment, potato seed 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.
- In fields with a history of severe Columbia root knot nematode problems, the maximum federal label rate of 20 gallons of TELONE™ II per acre is recommended in sequential combination with K-PAM HL or Sectagon-K54 at a minimum of 30 gallons per acre or Vapam HL or Sectagon 42 at a minimum rate of 37.5 gallons per acre, per these label directions.
- If the application of TELONE™ II occurs in the fall and the application of K-PAM HL or Sectagon-K54 or Sectagon 42 or Vapam HL is not planned until spring, a cover crop such as wheat or grass can be planted following the undisturbed soil interval associated with the application of TELONE™ II to reduce the potential for overwinter soil erosion.
- Refer to the product labels affixed to the containers for TELONE™ II and K-PAM HL or Sectagon-K54 or Sectagon 42 or Vapam HL for recommended soil conditions. Product performance can be expected to improve as the soil conditions move toward optimum. Use of this sequential application program of TELONE™ II and K-PAM HL or Sectagon-K54 or Sectagon 42 or Vapam HL under soil conditions outside the recommended range of soil conditions can be expected to yield less than satisfactory performance.

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