

**RESTRICTED USE PESTICIDE**

Due to acute toxicity and carcinogenicity. For retail sale to and use 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™ C-35**  
**Soil Fungicide and Nematicide**  
EPA Reg. No. 95290-2

plus

**K-PAM® HL**  
EPA Reg. No. 5481-483

OR

**Sectagon® 42**  
EPA Reg. No. 61842-6

OR

**Vapam® HL**  
EPA Reg. No. 5481-468

**2(ee) Recommendation<sup>†</sup>**

For Distribution and Use Only in the States of Oregon and Washington.

**Sequential Application of TELONE™ C-35 Soil Fungicide and Nematicide and K-PAM HL or Sectagon 42 or Vapam HL for Control of Plant Parasitic Nematodes and Suppression of *Verticillium dahliae* and Certain Other Soil Pests of Caneberries (Subgroup 13A)<sup>1</sup>, Strawberry and Nursery Crops**

**ATTENTION**

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

- It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
- Read the label affixed to container for TELONE™ C-35 Soil Fungicide and Nematicide, K-PAM HL, Sectagon 42 and Vapam HL before applying. Carefully follow all precautionary statements and applicable use directions.
- **Except as specified in this product bulletin, use of these products is subject to all use precautions and limitations imposed by the labels affixed to their containers.**

**Directions for Use**

<sup>1</sup> Caneberries (subgroup 13A) including blackberry, loganberry, red and black raspberry and cultivars and/or hybrids of these.

The following use directions provide information for a **sequential application program** of TELONE™ C-35 Soil Fungicide and Nematicide and K-PAM® HL or Sectagon® 42 or Vapam® HL soil fumigant. For best results, apply TELONE™ C-35 and K-PAM® HL or Sectagon® 42 or Vapam® HL in the fall. Alternative treatment schedules include a fall application of TELONE™ C-35 followed by a spring application of K-PAM® HL or Sectagon® 42 or Vapam® HL, a fall application of K-PAM® HL or Sectagon® 42 or Vapam® HL followed by a spring application of TELONE™ C-35, or spring application of TELONE™ C-35 and

K-PAM® HL or Sectagon® 42 or Vapam® HL. Due to time constraints resulting from varying weather conditions, a spring application may result in delayed planting.

#### **Application Directions for TELONE™ C-35**

Soil conditions at the time of application of TELONE™ C-35 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 90°F at the depth of injection, moist from 2 inches below the soil surface to at least 9 inches deep 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.

Apply TELONE™ C-35 as a broadcast treatment at the minimum rate of 27 gallons broadcast equivalent per acre using either chisel (shank), or Noble (sweep) application equipment. Use rates higher than the minimum if one or any combination of the following conditions apply: high pest populations in pre-treatment samples; applying to fine-textured soils; planting of deep-rooted trees or shrubs; or if the crop will remain in production for more than a year. Chisel equipment must have ripper-type shanks. Use a shank spacing of 12 to 24 inches with chisel equipment. 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 application of TELONE™ C-35, 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 42 or Vapam HL**

Soil conditions at the time of application of K-PAM HL or Sectagon 42 or Vapam HL must be between 40 and 90°F in the treated zone, and soil moisture in the top 6 inches should be at 60 to 80% available water capacity. 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 42 or Vapam HL either by chemigation or by soil injection or surface incorporation as a sequential application with TELONE™ C-35. When K-PAM HL or Sectagon 42 or Vapam HL is used prior to TELONE™ C-35, allow a minimum of 7 days between treatments. When K-PAM HL or Sectagon 42 or Vapam HL is applied after TELONE™ C-35, allow a minimum of 7 days before disturbing the soil or beginning any pre-irrigation for the application of K-PAM HL or Sectagon 42 or Vapam HL. Regardless of application sequence, a longer undisturbed interval is required if the soil becomes cold or wet.

For chemigation, apply K-PAM HL at a minimum rate of 24 gallons broadcast equivalent per acre or Sectagon 42 or Vapam HL at the minimum rate of 30 gallons broadcast equivalent 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 up the system 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 or Sectagon 42 or Vapam HL solution throughout the irrigation system prior to moving over untreated soil. After the application is complete, flush equipment until all K-PAM 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 or Sectagon 42 or Vapam HL.

For soil injection, apply K-PAM HL at a minimum of 24 gallons broadcast equivalent per acre or Sectagon 42 or Vapam HL at the minimum rate of 30 gallons broadcast equivalent per acre using either shanks,

sweep blades, double-winged shanks, or a Noble plow blade combined with a surface application. Space single shanks 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. Space single sweep blades 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. Space double-winged shanks 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 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 at a minimum of 24 gallons broadcast equivalent per acre or Sectagon 42 or Vapam HL at the minimum rate of 30 gallons broadcast equivalent per acre 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 TELONE™ C-35, K-PAM or Sectagon 42 or Vapam HL are no longer present within the zone of fumigation. If K-PAM HL or Sectagon 42 or Vapam HL follows TELONE™ C-35 and is applied in the spring with the Noble plow blade, apply all fertilizers after the application of K-PAM HL or Sectagon 42 or Vapam HL. Thoroughly aerate the soil 5 to 7 days after the application of K-PAM HL 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 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 noxious fumes are noticeable at planting, rework the soil. If TELONE™ C-35 follows K-PAM HL or Sectagon 42 or Vapam HL and is applied in the spring, wait at least 1 week for each 10 gallons of TELONE™ C-35 applied beyond the initial undisturbed period before planting the crop. If fumigant is 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™ C-35 and K-PAM HL or Sectagon 42 or Vapam HL does not guarantee pest-free growing conditions in the second year.
- Directions in this product bulletin are not intended for use on certified nursery stock.
- Use of TELONE™ C-35 and K-PAM HL or Sectagon 42 or Vapam HL according to these use directions will control 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™ C-35 and K-PAM HL 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 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.
- If the application of TELONE™ C-35 occurs in the fall and the application of K-PAM HL 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™ C-35 to reduce the potential for overwinter soil erosion.

- Refer to the product labels affixed to the containers for TELONE™ C-35 and K-PAM HL or Sectagon 42 or Vapam HL for soil conditions. Product performance can be expected to improve as the soil conditions move toward optimum. Use of this sequential application program of TELONE™ C-35 and K-PAM HL or Sectagon 42 or Vapam HL under soil conditions outside the specified range of soil conditions can be expected to yield less than satisfactory performance.

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