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

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Mr. Michael Kellogg  
Agent for Tessengerlo Kerley, Inc  
C/O Pyxis Regulatory Consulting, Inc  
4110 136<sup>th</sup> ST. NW  
Gig Harbor, WA 98332

SEP 15 2009

Subject: Label Notification(s) for Pesticide Registration Notice 2007-4

Dear Registrant:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 dated July 28, 2009 for:

**EPA Registration 61842-6      Sectagon 42**

The Registration Division (RD) has conducted a review of this request for applicability under PRN 2007-4 and finds that the label change(s) requested falls within the scope of PRN-2007-4. The label has been date-stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please contact me directly at 703-305-6249 or Banza Djapao of my staff at 703-305-7269.

Sincerely,

A handwritten signature in black ink, appearing to read "Linda Arrington".

Linda Arrington  
Notifications & Minor Formulations Team Leader  
Registration Division (7505P)  
Office of Pesticide Programs



United States  
Environmental Protection Agency  
Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

### Application for Pesticide - Section I

1. Company/Product Number 61842-6	2. EPA Product Manager M. Waller	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Tessenderlo Kerley, Inc. / Sectagon 42	PM# 21	
5. Name and Address of Applicant (Include ZIP Code) Tessenderlo Kerley, Inc. c/o Pyxis Regulatory Consulting Inc. 4110 136th St. NW Gig Harbor, WA 98332 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

### Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

**NOTIFICATION**

SEP 15 2009

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)

Notification of label change per PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

### Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Metal	<input checked="" type="checkbox"/> Plastic
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt	No. per container
				<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
				<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input checked="" type="checkbox"/> Container		4. Size(s) Retail Container 50-250 gallon, bulk		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph Paper glued Stenciled		<input type="checkbox"/> Other _____			

### Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Michael Kellogg	Title Agent	Telephone No. (Include Area Code) (253)-853-7369
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment both under applicable law.		6. Date Application Received  (Stamped)
2. Signature 	3. Title Agent	
4. Typed Name Michael Kellogg	5. Date 7/28/09	



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**NOTIFICATION**

SEP 15 2009

# SECTAGON 42®

## FUMIGANT SOLUTION FOR ALL CROPS

For suppression of: Nematodes, Fungi, Bacteria, Weeds, Weed seeds and Volunteer seeds.

### 42.2% SODIUM METHYLDITHIOCARBAMATE

**ACTIVE INGREDIENT:**

Sodium methyldithiocarbamate (anhydrous) ..... 42.2%

**OTHER INGREDIENTS:** ..... 57.8%

**TOTAL:** ..... 100.0%

Contains 4.22 lbs. active ingredient per gallon.

EPA Reg. No. 61842-6

EPA Est. No.

## KEEP OUT OF REACH OF CHILDREN DANGER PELIGRO

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH LABEL WARNINGS AND DIRECTIONS

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

### FIRST AID

**If on Skin or Clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 - 20 minutes. Call a poison control center or doctor for treatment advice.

**If in Eyes:** Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**If Inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**If Swallowed:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

### HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-866-374-1975 for emergency medical treatment information.

### NOTE TO PHYSICIAN

Probable mucousal damage may contraindicate the use of gastric lavage.

**Manufactured by:**

Tessengerlo Kerley, Inc.  
2255 North 44th Street, Suite 300  
Phoenix, Arizona 85008-3279  
1-800-525-2803

**Net Contents:**

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
DANGER**

- Corrosive: causes skin damage. May be fatal if absorbed through the skin. Do not get on skin or clothing.
- Prolonged or frequent repeated skin contact may cause allergic reactions in some individuals.
- Harmful if swallowed.
- Harmful if inhaled. Irritating to eyes, nose, and throat. Avoid breathing vapor or spray mist.
- Irritating to eyes. Do not get in eyes.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**(1) Handlers Performing Direct-Contact Tasks**

Direct-contact tasks include:

- mixing, loading, or fumigant transfer with or without dry-disconnect fittings.
- equipment calibration or adjustment
- equipment cleanup and repair
- product sampling
- application or soil-sealing outside an enclosed cab
- any activity less than 6 feet from an unshielded pressurized hose containing this product
- spill cleanup
- removal of tarp or plastic film
- rinsate disposal
- cleanup of small spills
- preparing containers for aeration
- any other handling task not otherwise listed in (2) or (3) below

**Applicators and other handlers performing direct-contact activities must wear:**

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when cleaning equipment, or when mixing, loading, or transferring without dry-disconnect fittings
- Face-sealing goggles, unless full-face respirator is worn
- A respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P or HE prefilter.

**(2) Handlers in Enclosed Cabs**

Applicators and other handlers in enclosed cabs must wear:

- Coveralls
- Shoes and socks

**Plus**, if pungent, rotten-egg odor of this product can be detected inside the enclosed cab, the handlers in the cab must wear:

- Face-sealing goggles, unless full-face respirator is worn
- A respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P or HE prefilter.

In addition, the PPE specified in (1) for direct-contact activities must be immediately available in the enclosed cab and must be worn if the handler leaves the enclosed cab to perform any direct-contact activity.

The enclosed cab must meet the requirements listed in the Worker Protection Standard (WPS) for

agricultural pesticides 40 CFR 170.240(d)(5).

**(3) Handlers in Treated Areas While Entry is Restricted**

While entry is restricted (see "Entry Restrictions" in the Agricultural Use Requirements box elsewhere in this labeling), only the following handling tasks may be performed in a treated area outdoors:

- Assessing/adjusting the soil seal
- Assessing pest control, application technique, or application efficacy
- Sampling air or soil for this product

All other tasks are prohibited until the entry restriction is over.

**Handlers performing the above tasks must wear:**

- Coveralls over long-sleeved shirt and long pants
- Chemical resistant gloves made of any waterproof material
- Chemical-resistant footwear and socks

**Plus:** If pungent, rotten-egg odor of this product can be detected outdoors, handlers must wear:

- Face-sealing goggles (unless full-face respirator is worn) and
- A respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P or HE prefilter.

**USER SAFETY REQUIREMENTS**

**1. Respirator Requirements:**

When a respirator is required for use with this product, the following criteria must be met:

- Cartridges or canisters must be replaced daily or when odor or irritation from this product becomes apparent, whichever is sooner.
- Respirators must be fit-tested and fit-checked using a program that conforms to OSHA's requirements (described in 29 CFR Part 1910.134).

**2. Dispose of Contaminated Clothing:**

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with liquid from this product. Do not reuse them.

**3. Clean and Maintain PPE:** Follow manufacturer's instructions for cleaning/maintaining PPE. If there are no such instructions for washables, use detergent and hot water. Keep and wash PPE separate from other laundry. Wash PPE after each day's use.

**USER SAFETY RECOMMENDATIONS**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish. For terrestrial uses, do not apply directly to water or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water when disposing of equipment wash water. Apply this product only as specified on this label.

**USE PRECAUTIONS**

Keep off desirable lawns and plants. Do not apply within 3 feet of the drip line of desirable plants, shrubs or trees. Do not use in confined areas without adequate ventilation OR where fumes may enter nearby

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dwellings. Do not use in greenhouses. Keep container tightly closed when not in use. Do not store near feed or food.

**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in a cool, dry place, keep container closed when not in use. Do not store below 0° F. Product crystallizes at lower temperatures. Warm or store at higher temperatures and mix to redissolve crystals and assure uniformity before use.

Do not stack more than three drums high. Leaking or damaged drums should be placed in overpack drums for disposal. Spills should be absorbed in sawdust or sand and disposed of in a sanitary landfill. Keep container closed when not in use.

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instruction, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:**

**[NON-REFILLABLE CONTAINERS]**

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**[REFILLABLE CONTAINERS]**

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**NOTE OF WARNING: CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER!**

**DIRECTIONS FOR USE**

For suppression of: Nematodes, Fungi, Bacteria, Weeds, Weed seeds and Volunteer seeds.

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Use only according to label. Do not apply this product through any irrigation system unless the labeling on chemigation is followed.

**CALIFORNIA ONLY:** Application must be in compliance with Technical Information Bulletin - California "Guidelines For All Application Methods For Metam Sodium in California." This information bulletin may be obtained from your local pesticide dealer or a metam-sodium registrant. **Proposition 65 (CA Only):**

**WARNING:** This product contains chemicals known to the State of California to cause cancer, birth

defects or other reproductive harm. 22 California Code of Regulations § 12601(d)(3).

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR 170. This Standard contains requirements for the protection of agriculture workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements in this labeling about personal protective equipment (PPE), restricted-entry intervals, and notification to workers. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard (WPS).

**ENTRY RESTRICTIONS**

**OUTDOORS:** Entry (including early entry that would otherwise be permitted under the WPS) by any person other than a correctly trained and equipped handler who is performing a handling task permitted on this labeling is PROHIBITED from the start of application until 48 hours after application. In addition, if tarps are used for the application, nonhandler entry is prohibited while tarps are being removed.

**NOTIFICATION:** Notify workers of the application by warning them orally and by posting warning signs. The signs must state:

(1) "DANGER/PELIGRO," (2) "PESTICIDES/PESTICIDAS," (3) KEEP OUT/NO ENTRE," (4) the date and time of fumigation, (5) SECTAGON 42<sup>®</sup>, 42.2% SODIUM METHYLDITHIOCARBAMATE, and (6) "name, address, and telephone number of the applicator." Post the WPS sign in compliance with 40 C.F.R. Part 170, and follow the WPS requirements pertaining to location, legibility, color, size, and timing of posting and removal. Outdoors: Post the fumigant warning signs at entrances to treated areas.

**PPE FOR ENTRY DURING THE RESTRICTED PERIOD:** PPE for entry that is permitted by this labeling is listed in the "Hazards to Humans and Domestic Animals" section of this labeling.

**READ ALL LABEL DIRECTIONS BEFORE USING  
PRODUCT INFORMATION**

SECTAGON 42<sup>®</sup> is a water-soluble liquid. When applied to properly prepared soil, the liquid is converted into a gaseous fumigant. After a sufficient waiting period, the gas dissipates, leaving the soil ready for planting. SECTAGON 42<sup>®</sup> is recommended for the suppression of weeds, plant parasitic nematodes, and soilborne fungi that cause reductions in the yield and quality of ornamental, food and fiber crops.

SECTAGON 42<sup>®</sup> will suppress only those pests in the fumigation zone at the time of treatment. Recontamination may occur subsequent to the fumigant's dissipation from the soil.

Weeds and germinating weed seeds that are suppressed include Annual bluegrass, Bermuda grass, Chickweed, Dandelion, Ragweed, Henbit, Lambsquarter, Amaranthus sp. (Pigweed, Careless weed), Watergrass, Johnsongrass, Nutgrass, Wild morningglory, Purslane, Barnyardgrass, Crabgrass, Groundsel, Prickly lettuce, Pineappleweed, Nettleleaf, Goosefoot, Nightshade, Shepherdspurse, Stinging nettle, Malva, London rocket, and Fiddleneck. The best weed suppression is obtained when SECTAGON 42<sup>®</sup> is applied to weeds that are actively growing.

The soil-borne plant pathogenic fungi suppressed include species of Verticillium, Rhizoctonia, Pythium, Phytophthora, Sclerotinia.

The plant parasitic nematodes which SECTAGON 42<sup>®</sup> suppresses include Root knot, Lesion, Dagger, Lance, Needle, Pin, Reniform, Stunt, Stubby root, Sting and Spiral.

Note: SECTAGON 42<sup>®</sup> will only suppress nematodes that are in the fumigated zone at the time of treatment. The fumigated zone is defined as the depth of penetration that SECTAGON 42<sup>®</sup> achieves at the time of application. In Oregon and Washington, SECTAGON 42<sup>®</sup> will only suppress Miloidogyne Chitwoodi. Other pests suppressed include symphylids or garden centipedes.

**TREATMENT GUIDELINES**

For optimum results from soil fumigation with SECTAGON 42<sup>®</sup> certain procedures should be observed at designated times in the treatment program. Described in this section are important guidelines for each of



the four stages of the treatment process:

**Planning a SECTAGON 42® Application**

**Preparing a Field for Application**

**Applying SECTAGON 42®**

**Preparing for Planting after Application of SECTAGON 42®**

Your sales representative will help you select the best treatment program for your particular needs.

**PLANNING A SECTAGON 42® APPLICATION**

**Time of Application**

Apply SECTAGON 42® after harvest and 14 to 21 days before a new crop is planted. In some areas of North America, fall applications are preferred because the fumes dissipate over the winter, allowing planting to begin as soon as favorable springtime conditions arrive.

**Application Rate**

Apply 1 to 80 gallons of SECTAGON 42® per treated acre depending on crop, target pest, and soil properties. Soil properties to consider when determining the application rate include the depth of soil to be treated, soil texture and percent organic matter.

**Application in Tank Mix with Liquid Fertilizer**

SECTAGON 42® may be injected in a mixture with liquid fertilizers. Since the composition of liquid fertilizers vary considerably, the physical compatibility of each fertilizer/SECTAGON 42® tank mix should be checked by using the following procedure:

Mix a small quantity of SECTAGON 42® and liquid fertilizer in a glass container. SECTAGON 42® and fertilizer should be mixed in the same ratio as they will be applied to the field (i.e., if 40 gallons of SECTAGON 42® and 40 gallons of liquid fertilizer are to be applied per acre, then SECTAGON 42® and fertilizer should be mixed in the jar in a 40:40 or 1:1 ratio). Agitate the liquids to attain a complete mixture.

If a uniform mix cannot be made, the mixture should not be used. If the mixture remains uniform for 30 minutes, the combination may be used. Should the mixture separate after 30 minutes, but readily remixes uniformly with agitation, the mixture can be used if adequate agitation is maintained in the tank.

**DO NOT PLACE CAPS ON JAR, AS INCOMPATIBLE MIXES MAY EVOLVE HYDROGEN SULFIDE GAS.**

**USE PROMPTLY AFTER MIXING WITH WATER OR FERTILIZER. DO NOT ALLOW SOLUTION TO STAND.**

Flush all equipment with water after each day's use. Disassemble valves and clean carefully.

**Target Pest and Depth of Treatment**

For suppression of weeds and fungi causing seed or seedling diseases, treatment of only the top 1 to 4 inches of soil may be required. For suppression of nematodes and fungi which occur throughout the rhizosphere, treatment to depths of greater than 4 inches may be required. For a given soil type, the required application rate will increase proportionately with the depth of treatment required.

For example, if 25 gallons of SECTAGON 42® per acre is required to treat 4 inches, then 50 gallons of SECTAGON 42® will be required to treat to a depth of 8 inches. Choose the appropriate application method to distribute SECTAGON 42® evenly throughout the soil to the required depth.

**Organic Matter in the Soil**

Plant material under the soil surface should be thoroughly decomposed before SECTAGON 42® is applied. Because of the absorbing effect of humus, soils with high levels of organic matter under the surface require higher than usual doses of SECTAGON 42®. For example, muck soils require twice the amount of fumigant that would be used in mineral soils.

**Soil Texture**

Application rates will vary with the soil texture. For instance, clay soils require more SECTAGON 42® than light sandy soil.

### PREPARING A FIELD FOR APPLICATION

#### Soil Cultivation

Cultivate the soil thoroughly before treatment, breaking up all large clods. If the soil crusts following pretreatment irrigation, lightly cultivate it again before treatment with SECTAGON 42®.

#### Soil Temperature During Treatment

At the time of fumigation, the soil temperature should be in the range of 40°F-90°F (4°-32°C) at a depth of 3 inches.

To prevent rapid evaporation of the product from the soil avoid treating soil during times of the day when soil temperatures exceed 90° F (32° C). Instead, make the application during the early morning hours when the soil temperature is coolest.

#### Measuring the Soil Moisture

Application should be made under "good seed bed moisture condition", that is, the soil moisture should be about 50-80% of field capacity. As a simple field test, squeeze a handful of soil into a ball and then gently try to break it apart with your fingers. If it breaks easily, the soil moisture content is sufficient. If it will not break apart or if water can be squeezed out, it is too wet. When necessary, 1 to 2 weeks prior to treatment sprinkle or flood irrigate the soil to increase the moisture content. The soil must be moistened to at least the desired treatment depth.

#### Phytotoxicity

SECTAGON 42® is phytotoxic. Protect valuable, non-target plants by stopping soil applications of SECTAGON 42® at least 3 feet short of the drip line of trees, shrubs, and other desirable plants. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

### APPLYING SECTAGON 42®

#### Use of Diluted SECTAGON 42®

Do not store the diluted product. Use SECTAGON 42® promptly after it has been mixed with water. In dilute solutions in water SECTAGON 42® decomposes over a period of days. Although SECTAGON 42® is stable in its concentrated form, it is unstable in acid dilutions.

#### Odors During or After Application

Strong odors during or after application are a signal that the fumigant is escaping and needs to be sealed in the soil. If increasingly strong odors are occurring, the application should be stopped immediately and not resumed until the source of the odor problem is identified and corrected. For sprinkler application or whenever possible with other application methods, a water seal should be applied immediately to the treated areas of the field.

#### Sealing SECTAGON 42® in Soil

To be most effective, SECTAGON 42® should be sealed in the soil. Sealing methods include applying irrigation water or plastic tarpaulins and packing soil with a roller or drag. Tarpaulins should be spread loosely over the treated area and secured to prevent removal by wind. They should remain in place for at least 48 hours. Seven days after treatment, the sealed area should be cultivated to a depth of 2 inches to aerate the soil. When tarpaulins are used to seal the soil, wait at least 21 days before planting.

### CHEMIGATION-GENERAL PROCEDURES

When applying by chemigation methods the following precautions must be observed.

Apply this product only through sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move; flood (basin); furrow; border, or drip (trickle) irrigation systems. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in

place.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Posting of areas to be chemigated is required when 1) any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, day care centers, hospitals, in-patient clinics, nursing homes or any public areas such as schools, parks, playgrounds, or other public facilities not including public roads, or 2) when the chemigated area is open to the public such as golf courses or retail greenhouses.

Posting must conform to the following requirements: Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corners of the treated area and in any other location affording maximum visibility to sensitive areas. The printed side of the sign should face away from the treated area toward the sensitive areas. The signs shall be printed in English. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.

All words shall consist of letters of at least 2 1/2 inches tall, and all letters and the symbol shall be a color which sharply contrasts with their immediate background. At the top of the sign shall be the words KEEP OUT, followed by an octagonal stop sign symbol of at least 8 inches in diameter containing the word STOP. Below the symbol shall be the words PESTICIDES IN IRRIGATION WATER.

This sign is in addition to any sign posted to comply with the Worker Protection Standard.

**CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS**

**NOTE:** Tessengerlo Kerley, Inc. does not encourage connection of chemigation systems to public water systems. The following information is provided for users who have evaluated all alternative application and water source options before choosing to make such a connection.

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank measuring of at least twice the inside diameter of the fill pipe.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must contain a functional, normally closed solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or in cases where there is no water pump, controls on the pesticide injection pump are also needed when the water pressure decreases to the point where pesticide distribution is adversely affected.

System must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

**SPRINKLER SYSTEM CHEMIGATION**

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back toward the injection pump.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid backflow.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

**FLOOD (BASIN), FURROW OR BORDER IRRIGATION SYSTEM CHEMIGATION**

Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from backflow if water flow stops.

Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not dilute in supply tanks. Agitation of supply tank recommended after freezing.

**DRIP CHEMIGATION**

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm

pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

**NOTICE:** Do not operate irrigation systems without safety valves or other devices to prevent back siphoning of SECTAGON 42® into water sources. Irrigation water treated with SECTAGON 42® should be maintained on the treated area until the water is absorbed by the soil. The tank containing SECTAGON 42® must be connected to the discharge side of the irrigation pump or other pressurized equipment attached to the irrigation line. Do not apply in irrigation systems that result in overlapping application of SECTAGON 42®. Do not apply when weather conditions favor drift from target areas.

**PREPARING FOR PLANTING AFTER APPLICATION OF SECTAGON 42®**

**Effect of Rain**

If a SECTAGON 42® application is rained on less than 24 hours after treatment, lack of suppression at and near the soil surface may result.

**Recontamination**

Precautions must be taken to prevent recontamination of treated soil with weed seeds, plant pathogenic fungi and plant parasitic nematodes. Use clean seeds and/or plants. Before farm equipment is driven into the treated area, it should be rinsed free of the untreated soil from other fields.

**Interval Between Treatment and Planting**

Because SECTAGON 42® can be harmful to germinating and/or living plants, an appropriate interval must be observed between soil fumigation and planting. On well-drained soils which have a light to medium texture and which are not excessively wet or cold following application, planting can begin 14 to 21 days after treatment. If soils are heavy or especially high in organic matter, or if they remain wet and/or cold (below 60° F or 15° C) following application, a minimum interval of 30 days should be observed.

**Aeration before planting**

Soils including soils high in clay or organic matter, should be allowed to aerate and dry thoroughly after treatment with SECTAGON 42®. During cold and/or wet weather, frequent shallow cultivation can aid the escape of SECTAGON 42® from the soil.

**Testing for Dissipation of SECTAGON 42®**

After the waiting period has passed, if there are any questions about the complete escape of SECTAGON 42® from the soil, transplant a seedling into the treated soil. If the plant develops normally without any signs of chemical injury, crop planting can begin.

**USES, APPLICATION METHODS & RATES**

**FIELD APPLICATION WHERE ENTIRE AREA IS BEING TREATED**

**POWER ROLL SEAL METHOD (NON-TARP)**

Use a RO-TO-VATE & ROLL Applicator only. Contact your local agricultural extension service, distributor or the manufacturer for approved RO-TOVATE & ROLL Application specifications.

**When to Treat:** Apply SECTAGON 42® 2 to 6 weeks prior to planting, whenever soil type and conditions permit. For best results with annual crops, treat the soil each year. Do not use SECTAGON 42® to treat any type of soil when it is cold and/or wet.

**Soil Preparation:** SECTAGON 42® gives best results when conditions permit thorough diffusion of the fumigant through the soil and the soil surface can be power roll sealed to prevent excessive fumigant loss during the exposure period. The soil should be prepared to seed bed condition, free of dry clods, relatively low in undecomposed organic matter with a level soil surface. A smooth soil surface is required for uniform distribution of SECTAGON 42® during incorporation.

**Soil Moisture:** Soil moisture should range between 30-50% of field capacity.

**Soil Temperature:** Soil temperature should range between 40° to 90° F at the depth of incorporation. Cool soil temperature and high soil moisture will slow diffusion of fumigant and planting date/time may be delayed. Hot soil temperature and low soil moisture allows extremely rapid diffusion of fumigant and hinders a good soil seal.

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**Application:** Use undiluted SECTAGON 42® to the desired depth below the final soil surface. (Contact your dealer or the manufacturer for the specifications for suitable application equipment).

**IMPORTANT SOIL TREATMENT PRECAUTIONS**

**Crops to be hilled:** For crops that require soil movement (hilling) prior to or after planting, incorporate SECTAGON 42® to a depth that will allow the tillage required to occur without penetrating below the depth of treatment.

**Crops to be bedded:** For crops to be bedded, care must be taken that exposed sides of raised beds are not cracked or open compared to the power rolled surface. If necessary, add power rollers of the required height or other sealing equipment to the ends of the bedding equipment to seal the sides.

**Note:** The use of SECTAGON 42® for the suppression of weeds, weed seeds and shallow inhabiting soil fungi requires that NO SOIL CULTIVATION OCCUR FOLLOWING TREATMENT until time of planting.

This method of treating soil with SECTAGON 42® will not be effective for the suppression of nematodes outside the treated zone. This method of SECTAGON 42® application can be used in combination with other soil fumigants to suppress the nematodes persisting in the surface 1 to 6 inches of soil normally not suppressed with injected soil fumigants.

Zone of treatment will be limited by diameter of applicator. If pest is deeper than applicator can treat to, use a different method. For further information contact your local agricultural extension service or the manufacturer.

**SOIL INJECTION**

Use injectors (shanks, blades, fertilizer wheels, plows, etc.) to apply SECTAGON 42® at the rate of 15 to 75 gallons per acre into well prepared soil. Follow immediately with a bedshaper, roller press wheel, or similar device, or cover with an adequate amount of soil to seal the fumigant into the soil.

Example: apply through injectors placed 4 inches below surface and 5 inches apart.

**SPRINKLER SYSTEM**

Use only those sprinkler systems which give large water droplets to prevent excess loss. Use 37.5 to 75 gallons SECTAGON 42® per acre for suppression of nematodes and fungi at a depth of 24 inches. For suppression of weeds and fungi at a depth of 8 inches or less, use 15 to 75 gallons per acre. Inject the SECTAGON 42® in enough water to reach to desired treatment depth. The product should be continuously metered into the irrigation system throughout the entire application period. Flush the system with only enough water to clear lines. If the soil surface dried quickly, reseal it with 15 minutes of water once a day for the next day or two.

When using a sprinkler application method, apply SECTAGON 42® only when the air temperature is below 90° F (32° C). This precaution is recommended to guard against evaporation of the product. Either low humidity or high winds can also cause the evaporation of SECTAGON 42® before it can be drenched into the soil. To prevent wind drift of the fumigant, apply only when wind conditions are suitable.

To prevent runoff of treatment solution during sprinkler application, do not exceed the infiltration rate of the solution into the soil. Should runoff occur, isolate it from growing crops and water sources. Once collected, reapply it to the treated area. See use precautions in "CHEMIGATION" section.

**CHECK OR FLOOD IRRIGATION**

Meter SECTAGON 42® at a steady rate into water during irrigation. Use 40 to 75 gallons of SECTAGON 42® per acre, depending upon the kind of pest and depth desired, in 3 to 18 inches of water per acre. See use precautions in "CHEMIGATION" section.

**DISC APPLIED METHOD**

Spray SECTAGON 42® immediately in front of disc. Use 15 to 75 gallons per acre. Follow immediately with a roller to smooth and compact the soil surface.

**DRIP IRRIGATION**

SECTAGON 42® may be injected into drip irrigation systems prior to planting. The area must be calculated in accordance with the size of the band treated. Apply 40 gallons per broadcast acre in one acre inch of water (27,000 gallons). The resulting concentration is 700 ppm on a weight basis. (Example: if the emitters irrigate 10% of each acre then use 5 gallons SECTAGON 42® in 2,700 gallons water). Inject continuously. Do not slug treat. See use precautions in "CHEMIGATION" section.

### APPLICATION TO BED OR ROWS

#### POWER ROLL SEAL METHOD (NON-TARP)

Use a modified RO-TO-VATE & ROLL Applicator only. Contact your local agricultural extension service, distributor or the manufacturer for approved RO-TO-VATE & ROLL Applicator specifications.

**When to treat:** Apply SECTAGON 42® 2 to 6 weeks prior to planting whenever soil type and conditions permit. For best results with annual crops, treat the soil each year. Do not use SECTAGON 42® to treat any type of soil when it is cold and/or wet.

**Soil Preparation:** SECTAGON 42® gives best results when conditions permit thorough diffusion of the fumigant through the soil and the soil surface can be power roll sealed to prevent excessive fumigant loss during the exposure period. The soil should be prepared to seed bed conditions, free of dry clods, relatively low in undecomposed organic matter with a level soil surface. A smooth soil surface is required for uniform distribution of SECTAGON 42® during incorporation.

**Soil Moisture:** Soil moisture should range between 30 to 50% of field capacity.

**Soil Temperature:** Soil temperature should range between 40° to 90°F at the depth of incorporation. Cool soil temperature and high soil moisture will slow diffusion of fumigant and planting date/time may be delayed. Hot soil temperature and low soil moisture allows extremely rapid diffusion of fumigant and hinders a good soil seal.

**Application:** Use undiluted SECTAGON 42®. Apply with suitable application equipment that will ensure incorporation of SECTAGON 42® to the desired depth below the final soil surface. (Contact your dealer or the manufacturer for the specifications for suitable application equipment).

#### IMPORTANT SOIL TREATMENT PRECAUTIONS

**Crops to be hilled:** For crops that require soil movement (hilling) prior to or after planting, incorporate SECTAGON 42® to a depth that will allow the tillage required to occur without penetrating below the depth of treatment.

**Crops to be bedded:** For crops to be bedded, care must be taken that exposed sides of raised beds are not cracked or open compared to the power rolled surface. If necessary, add power rollers of the required height or other sealing equipment to the ends of the bedding equipment to seal the sides.

**Note:** The use of SECTAGON 42® for the suppression of weeds, weed seeds and shallow inhabiting soil fungi requires that NO SOIL CULTIVATION OCCUR FOLLOWING TREATMENT until time of planting.

This method of treating soil with SECTAGON 42® will not be effective for the suppression of nematodes outside the treated zone. This method of SECTAGON 42® application can be used in combination with other soil fumigants to suppress the nematodes persisting in the surface 1 to 6 inches of soil normally not suppressed with injected soil fumigants.

Zone of treatment will be limited by diameter of applicator. If pest is deeper than applicator can treat to, use a different method. For further information contact your local agricultural extension service or the manufacturer.

#### SOIL INJECTION

SECTAGON 42® at the rate of 50 to 75 gallons per treated acre (1 to 1.5 pints per 100 sq. ft.), may be injected into preformed plant beds following the directions given above under soil injection. If a wider treated band is desired, space 2 or more injectors (shanks, blades, fertilizer wheels, etc.) at desired intervals to cover the desired treating width. Seal immediately.

If SECTAGON 42® is injected into established plant beds through plastic tarps to terminate growth of a previous crop, and to fumigate the bed in preparation for planting a subsequent crop, the terminated crop

should not be used for any food or feed purposes after SECTAGON 42® has been applied.

**SOIL COVERING METHOD  
(BED-OVER METHOD)**

SECTAGON 42® may be sprayed or dripped onto the soil immediately ahead of bed-shaping equipment. Follow immediately with a bedshaper, roller press wheel, or similar device, or cover with an adequate amount of soil to seal the fumigant into the soil. The recommended rate of SECTAGON 42® is 40 to 75 gallons per acre of treated soil, approximately equivalent to .5 to 1.5 pints per 100 linear ft. of 12-inch wide row.

**DRIP IRRIGATION**

During pre-irrigation, check drip tape for uniform distribution and repair if necessary. Apply 15 to 75 gallons SECTAGON 42® per treated acre (0.25 to 1.5 pints per 100 sq. ft. of treated soil) using enough water to thoroughly wet entire desired treatment zone. During the entire irrigation period, inject SECTAGON 42® continuously into drip line as close as possible to treatment area. Two or more lines per bed may be needed to ensure full coverage.

Application must be continuously supervised. This is very important: weed suppression will not be satisfactory if too much water is applied. An adequate concentration of SECTAGON 42® must be present at the time of weed seed germination in order to be effective. Further directions for use are as follows: Ground must be in seed-bed condition, no clods larger than 12" in diameter. Beds must be listed, shaped and ready for planting. Soil moisture must be at 50% of field capacity in the top 2 to 3 inches at time of SECTAGON 42® application. See use precautions in "CHEMIGATION" section.

**DRENCH METHOD**

SECTAGON 42® may be applied to finished beds in enough water to soak at least 2 inches deep for suppression of shallow seeded weeds. To avoid contamination by untreated soil, do not disturb the treated area. Apply 15 to 75 gallons of SECTAGON 42® per treated acre.

**ADDITIONAL RECOMMENDATIONS**

**TOBACCO PLANT BEDS**

Fall applications are recommended wherever possible. Read and follow DIRECTIONS FOR USE carefully. Treatment in the South should generally be made before November 30.

**A. TARP METHOD:** Prepare the bed 5 to 7 days before application to insure best conditions for weed seed germination and fumigant action of SECTAGON 42®. The bed should be free of clods, level and in good tilth. Apply 1 to 1¼ gallons of SECTAGON 42® in a minimum of 40 gallons of water per 100 sq. yds. Apply uniformly over the entire bed. Cover the bed immediately with a plastic cover. Keep covered no less than one day, but no more than two days. The cover need not be tented, but should be secured to prevent wind from uncovering the treated area. Seven days after date of SECTAGON 42® application, loosen the treated soil to a depth of 2 inches. Do not seed tobacco earlier than 21 days after SECTAGON 42® application.

**B. DRENCH METHOD:** Apply 2 gallons SECTAGON 42® in 150 to 200 gallons of water per 100 sq. yd. Application may be made with sprinklers, sprayers with nozzles or any suitable equipment. Follow directions given above for seed bed treatment.

**SYMPHYLID SUPPRESSION**

Soil should be in good seed bed condition to a depth of 8 to 10 inches. Maintain adequate moisture during spring season. Treat during July-August when symphyllids are in the upper soil surface. Apply 15 gallons SECTAGON 42® per acre using blade or chisel injector. Inject below level of symphyllid concentration, usually 6 to 8 inches. Pack soil immediately after application.

**NOTE:** SECTAGON 42® will only suppress nematodes which are in the fumigated zone at the time of



treatment.

### **POTATOES**

For suppression of potato pests such as Root knot nematodes, Weed seeds, Verticillium dahliae (Early maturity disease).

Apply 30 to 75 gallons SECTAGON 42<sup>®</sup> per acre using injectors (shanks, blades, fertilizer wheels, plows, etc.) Follow immediately with a bedshaper, roller press wheel or similar device or cover with an adequate amount of soil to seal the fumigant into the soil.

Sprinkler system preplant application - Use 37.5 to 75 gallons of SECTAGON 42<sup>®</sup> per acre. Inject into a sprinkler system that can deliver an even water distribution for the area being treated. Inject all of the SECTAGON 42<sup>®</sup> needed for the area covered and apply in enough water to reach the desired treatment depth. Soil temperature should be in the range of 40° F to 90° F in the treatment zone. Soil moisture immediately prior to treatment must be 50 to 80% of field capacity down to 24" level. SECTAGON 42<sup>®</sup> may be applied where crop stubble or vegetation exists without prior tillage, provided there is adequate soil penetration of SECTAGON 42<sup>®</sup>. Soil condition must facilitate even moisture penetration without runoff. Do not apply when plants are present. See use precautions in "CHEMIGATION" section.

**NOTE:** SECTAGON 42<sup>®</sup> will suppress Root knot nematodes in the fumigated zone at the time of treatment. The fumigated zone is defined as the depth of penetration that SECTAGON 42<sup>®</sup> achieves at the time of application.

If high numbers or deep nematodes are identified, anticipate nematodes to build up throughout the growing season. Some damage will occur unless additional action is taken.

SECTAGON 42<sup>®</sup> has no soil residual and reinfestation of a field can occur from numerous sources such as deep nematode populations, seed pieces, irrigation water, equipment contamination and blowing wind.

### **EARLY MATURITY DISEASES OF POTATOES IN OREGON**

Apply 30 gallons SECTAGON 42<sup>®</sup> per acre using injectors (shanks, blades, fertilizer wheels, plows, etc.) Follow immediately with a bedshaper, roller press wheel or similar device or cover with an adequate amount of soil to seal the fumigant into the soil.

**NOTE:** SECTAGON 42<sup>®</sup> will suppress Root knot nematodes in the fumigated zone at the time of treatment. The fumigated zone is defined as the depth of penetration that SECTAGON 42<sup>®</sup> achieves at the time of application.

### **MINT**

Verticillium wilt control.

When infestation is limited to small spots in a field, spread can be reduced by treating the soil with 75 gallons SECTAGON 42<sup>®</sup> per treated acre (1½ pints per 100 sq. ft.) using injector blade or thin shank injector rig with injectors spaced at intervals to cover the desired treating width.

### **WHEAT AND BARLEY**

For suppression of certain root diseases caused by Early season soil fungi – before applying SECTAGON 42<sup>®</sup> cultivate the area to be treated to break up clods. Apply 2 to 7.5 gallons per treated acre 14 to 21 days before planting. SECTAGON 42<sup>®</sup> may be diluted with water or non-acidic liquid fertilizer immediately before applying. Inject SECTAGON 42<sup>®</sup> to a depth of 5 to 8 inches into moist soil. Space injector shanks at intervals to cover the desired treating width.

Do not mix SECTAGON 42<sup>®</sup> with acidic fertilizer or other acidic solutions. For best results, moisture in the treated zone should be 50% of field capacity or more.

Use only in areas which receive 15 or more inches of rainfall per year.

### **PEANUTS**

**Cylindrocladium Black Rot (CBR) Suppression:**

Apply SECTAGON 42<sup>®</sup> at the following rates:

CBR-resistant cultivar (NC8C): 7.5 gallons per treated acre or 4 pints per 1,000 feet of treated row CBR-susceptible peanut cultivars (Florigant, GK-3, NC-5 Keel 29): 15 gallons per treated acre or 8 pints per 1,000 feet of treated row.

CBR-highly susceptible cultivars (VA 81B, NC7): use of SECTAGON 42® is not recommended.

**Soil Preparation:** Before applying SECTAGON 42®, residue from the previous crop should be decomposed (enhanced by fall discing) and plowed under in the spring with mold-board plow. Soil incorporated preplant herbicides must be applied before application of SECTAGON 42®.

**Application:** Apply SECTAGON 42® with a gravity flow regulator through chisel-type or counter-type applicators. Center each applicator, one per row, in front of a bedshaper to mark the location of chemical deposition. SECTAGON 42® should be deposited 6 to 8 inches below the soil surface of beds. Bed and applicator spacing should coincide with row spacing at planting. Soil temperatures must be in the range of 60° F to 90°F at 3 inch depth before application.

**Tillage and Planting after Application:** Do not mix treated soil with untreated soil by tillage or other cultural practices. Plant peanuts in the center of treated beds no earlier than 14 days following application of SECTAGON 42®. An at-planting nematicide treatment will be necessary in fields with heavy infestation of Root knot, Ring and/or String nematode.

**FOR SUPPRESSION OF SPECIFIC ORCHARD DISEASES (SUCH AS SPECIFIC APPLE REPLANT DISEASE)**

Use 62 to 77 gallons of Sectagon 42® per treated acre. It is best to have the replant site prepared to a planting consistency which includes irrigating to 70% field capacity before Sectagon 42® application. Treatment can be made in the Fall or Spring before planting but Fall application is the preferred timing. Spring application can be riskier because the interval between treatment and planting is critical; see CAUTIONS listed below. Do not harvest fruit within one (1) year of application.

There are three application techniques that may be used: 1) Entire orchard site, 2) Individual tree row site, and 3) Individual tree plant site.

**Entire orchard site:** Inject the desired amount of Sectagon 42® into a sprinkler system to treat the entire replant site. Figure the irrigation schedule required to cover the desired treatment depth. Start the irrigation system and inject the Sectagon 42® one-third to one-half way through the cycle making sure to leave enough time at the end of the cycle to seal the application with plain water.

**Individual tree row site:** Two methods of application may be used to apply Sectagon 42® to individual tree row sites: Method One is to apply Sectagon 42® through a portable irrigation system such as a sprinkler or drip system; Method Two is to apply the desired amount of Sectagon 42® through a weed sprayer while the irrigation system is running. For either method and after identifying the position of the future tree row site, apply Sectagon 42® one-third to one-half way through the required irrigation cycle leaving enough time at the end of the cycle to apply plain water, sealing the Sectagon 42® in the ground.

**Individual tree plant site:** Use 18 to 24 fluid ounces of Sectagon 42® per 100 gallons of water. Use 16 gallons of this solution in a 4 by 4 foot planting hole. Water and product amount adjustments can be made to accommodate different size planting holes to ensure product movement to desired depth. Replace dirt removed.

**TARPING:** Tarping of replant sites is required when near (1/2 mile) to populated areas, such as schools, hospitals, commercial or office buildings, factories, residential areas, etc. Tarping is not required if treatment is farther than 1/2 mile from such populated areas.

**CAUTIONS: INTERVAL BETWEEN TREATMENT AND PLANTING**

Because Sectagon 42® is harmful to living plants, an appropriate interval must be observed between Sectagon 42® application and planting. On well-drained soils which have a light to medium texture and are not excessively wet or cold following application, planting can begin 21 to 30 days after treatment. If soils are heavy or especially high in organic matter or if they remain wet and/or cold (below 60 degrees F) following application, a minimum interval of 30 to 45 days should be observed. Where the dosage approaches the 77 gallons per acre rate, wait at least 60 days.

**HARVEST OF ANY FRUIT WITHIN ONE (1) YEAR OF TREATMENT**

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**IS PROHIBITED.**

**CONDITIONS OF SALE—LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES**

The directions on this label are believed to be reliable and should be followed carefully. Insufficient control of pests and/or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions, the failure to follow the label directions, or good application practices, all of which are beyond the control of Tessenderlo Kerley, Inc., or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. Tessenderlo Kerley, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use, subject to the factors noted above which are beyond the control of Tessenderlo Kerley, Inc. Tessenderlo Kerley, Inc. makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose. The exclusive remedy against Tessenderlo Kerley, Inc. for any cause of action relating to the handling or use of this product is a claim of damage, and in no event shall damages or any other recovery of any kind against Tessenderlo Kerley, Inc. exceed the price of the product which causes the alleged loss, damage, injury, or other claim. Tessenderlo Kerley, Inc. shall not be liable and any and all claims against Tessenderlo Kerley, Inc. are waived, for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income, whether or not based on the negligence of Tessenderlo Kerley, Inc. breach of warranty, strict liability in tort, or any other cause of action. Tessenderlo Kerley, Inc. and the seller offer this product, and the buyer and users accept it, subject to the foregoing conditions of sale and limitations of warranty, liability and remedies.

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