

RESTRICTED USE PESTICIDE

Due to acute inhalation toxicity to humans.

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.

METAM CLR™ 42%

SOIL FUMIGANT SOLUTION FOR SPECIFIC CROPS AS LISTED IN THIS LABEL:

MAY BE APPLIED BY WATER-RUN APPLICATIONS (e.g., CHEMIGATION), SOIL INJECTION OR SOIL BEDDING EQUIPMENT TO SUPPRESS AND/OR CONTROL SOIL-BORNE PESTS IN LISTED ORNAMENTALS, FOOD AND FIBER CROPS.

For the control or suppression of Weeds, Diseases and Nematodes. Controls or suppresses weeds such as Bermudagrass, Chickweed, Dandelion, Ragweed, Henbit, Lambsquarter, Pigweed, Watercress, Amaranths species, Watergrass, Johnsongrass, Nightshade, Nutsedge, Wild Morning-Glory and Purslane, Nematodes and Symphylids. Soil-borne diseases such as Rhizoctonia, Pythium, Phytophthora, Verticillium, Sclerotinia, Oak Root Fungus and Club Root of Crucifers.

ACTIVE INGREDIENT:	
Sodium methyldithiocarbamate*	42.0%
OTHER INGREDIENTS:	58.0%
TOTAL:	100.0%

*Contains 4.25 lbs. Sodium methyldithiocarbamate per gallon



POISON KEEP OUT OF REACH OF CHILDREN DANGER - PELIGRO

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 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 a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
	EMERGENCY INFORMATION
For Emergencies involving	er or label with you when calling a poison control center or doctor, or going for treatment. a Spill, Leak, Fire, Exposure, or Accident, Contact: CHEMTREC at (800)-424-9300. Ition: Taminco US LLC at (423) 229-2000 from 9:00 a.m. to 5:00 PM Eastern Time.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

☐ EPA Est. No. 32557-BEL-1
☐ EPA Est. No. 61842-ID-001
☐ EPA Est. No. 61842-WA-001



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PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

DANGER. Fatal if absorbed through skin. Corrosive. Causes skin burns and irreversible eye damage. Do not get in eyes, on skin, or on clothing. May be fatal if swallowed or inhaled. Do not breathe vapor or spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are barrier laminate or viton \geq 14 mils.

Handlers applying via weed sprayer (see *Terms used in this labeling* section) while irrigation system is operating or handlers who may be exposed to liquid spray while repairing a malfunctioning chemigation system or shutting off equipment must wear:

- · chemical-resistant coveralls over long-sleeve shirt and long pants,
- · chemical-resistant gloves,
- chemical-resistant footwear plus socks,
- · chemical-resistant headgear, and
- respirator of the type specified in the respiratory protection section in the PPE requirements on this label.

Handlers wearing chemical-resistant attire are limited to 30 minutes of exposure in any 60 minute period to prevent heat illness, and, as required by the Worker Protection Standard for Agricultural Pesticides, employers of these handlers must take any necessary steps to avoid heat illness

Except as required above, handlers transferring or loading liquid formulations, handlers operating motorized ground equipment with open cabs, handlers repairing or inactivating irrigation or chemigation equipment during application, and handlers cleaning up spills or equipment, must wear:

- · coveralls over long-sleeve shirt and long pants,
- · chemical-resistant gloves,
- chemical-resistant footwear plus socks,
- chemical-resistant apron if transferring or loading the fumigant or cleaning up spills or equipment.
- · protective eyewear, and
- respirator of the type specified in the PPE requirements for respiratory protection section in the PPE requirements on this label if triggered.

All other handlers, including handlers operating motorized ground equipment with closed cabs (except for handlers who set up and calibrate chemigation and irrigation equipment and start the application from inside the application block) as stated in this labeling must wear:

- long-sleeve shirt and long pants,
- shoes plus socks, and
- respirator of the type specified in the respiratory protection section in the PPE requirements on this label if triggered.

All handlers who set-up and calibrate chemigation and irrigation equipment and start the application from inside the application block must wear:

- long-sleeve shirt and long pants,
- · shoes plus socks,
- protective eyewear, and
- respirator of the type specified in the respiratory protection section in the PPE requirements on this label if triggered.

Personal Protective Equipment (PPE) for Respiratory Protection

When an air-purifying respirator is required under this label's Directions for Use, Protection for Handlers, Respiratory Protection and/or Stop Work Triggers section, handlers must wear at minimum either:

- A NIOSH certified full face piece air-purifying respirator equipped with an organic vapor (OV, NIOSH approval prefix TC-23C) cartridge and a particulate pre-filter (Type N, R, P, or HE, NIOSH approval number prefix TC-84A), or
- A gas mask with a canister approved for organic vapor (NIOSH approval number prefix TC-14G).

Cartridges or canisters must be replaced when odor or sensory irritation from this product becomes apparent during use, if the measured concentration of MITC is greater than 6000 ppb (6 ppm), or, in the absence of any other instructions or indications of service life, at the end of each day's work period, whichever occurs first.

User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

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

DO NOT transport contaminated clothing inside a closed vehicle unless stored in a sealed container. Wash or dispose as specified.

User Safety Recommendations

User should wash hands before eating, drinking, chewing gum, using tobacco, or using the tailet

User should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Users should 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 pesticide is toxic to mammals, birds, aquatic invertebrates and fish. 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 contaminate water when disposing of equipment wash waters or rinsate.

Metam sodium has certain properties and characteristics in common with chemicals that have been detected in groundwater (highly soluble in water and has low adsorption to soil).

For untarped applications, leaching and runoff may occur if there is heavy rainfall after soil fumigation.

DIRECTIONS FOR USE

Restricted Use Pesticide

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. Do not apply when wind speed favors drift beyond the area intended for treatment. Only handlers may be in the application block from the start of the application until the entry restricted period ends, and in the buffer zone during the buffer zone period. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance.

For entry-restricted period and notification requirements, see the *Entry Restricted Period* and *Notification* sections of this labeling. PPE For Entry During the Entry-Restricted Period: PPE for entry that is permitted by this labeling is listed in the *Personal Protective Equipment (PPE)* section of this labeling.

Terms Used In This Labeling

Soil Fumigant Training Program: Certified applicator training that provides information on (1) how to correctly apply the fumigant, including how to comply with new label requirements; (2) how to protect handlers and bystanders; (3) how to determine buffer zone distances; (4) how to complete an FMP and the post-application summary; (5) how to determine when weather and other site-specific factors are not favorable for fumigant application; (6) how to comply with required GAPs and how to document compliance with GAPs in the FMP; and (7) how to develop and implement emergency response plans.

Fumigant Safe Handling Information: Information that must be provided annually to handlers that must include the following: (1) what fumigants are and how they work, (2) safe application and handling of soil fumigants, (3) air monitoring and respiratory protection requirements for handlers, (4) early signs and symptoms of exposure, (5) appropriate steps to take to mitigate exposures, (6) what to do in case of an emergency, and (7) how to report incidents.

Application Block: Area within the perimeter of the fumigated portion of a field (including furrows, irrigation ditches, roadways). The perimeter of the application block is the border that connects the outermost edges of total area treated with the fumigant product.

Application Rate: The ratio of fumigant mass applied compared to the soil surface area (e.g., lbs of product per acre). The application rate is expressed on this labeling in terms of either the "treated area application rate" or the "broadcast equivalent application rate". The "treated area application rate" relates to only the rate of fumigant applied to the portion of the field that is fumigated (e.g., rate within the bed or strips). The "broadcast equivalent application rate" relates to the rate of fumigant applied within the entire perimeter of the application block. For bedded and strip applications, the "broadcast equivalent application rate" must be calculated to determine the buffer zone distance required by this labeling.

Start of the Application: The time at which the fumigant is first delivered/dispensed into the soil in the application block.

Application is Complete: The time at which the fumigant has stopped being delivered/dispensed into the soil and the soil has been sealed; drip lines have been purged (if applicable). For applications with water seals, the application is complete at the time at which the fumigant has stopped being delivered/dispensed into the soil.

Entry Restricted Period: This period begins at the start of the application and expires depending on the application method and if tarps are used when the tarps are perforated and removed. Entry into the application block during this period is only allowed for appropriately PPE-equipped handlers performing handling tasks. See the Entry Restricted Period and Notification section for additional information.

Buffer Zone: An area established around the perimeter of each application block. The buffer zone must extend outward from the edge of the application block perimeter equally in all directions.

Buffer Zone Period: Begins at the start of the application and lasts for a minimum of 48-hours after the application is complete. Non-handlers must be excluded from the buffer zone during the buffer zone period.

Difficult to Evacuate Sites: Pre-K to Grade 12 schools, state licensed daycare centers, nursing homes, assisted living facilities, hospitals, in-patient clinics, and prisons.

Owner: Any person who has a present possessory interest (fee, leasehold, rental, or other) in an agricultural establishment. A person who has both leased such agricultural establishment to another person and granted that same person the right and full authority to manage and govern the use of such agricultural establishment is not an owner. See definition of owner in WPS (40 CFR §170.3).

Roadway: Portion of a street or highway improved, designed or ordinarily used for vehicular travel, exclusive of the sidewalk or shoulder even if such sidewalk or shoulder is used by persons riding bicycles. In the event a highway includes two or more separated roadways, the term roadway shall refer to any such roadway separately.

Representative Handling Task: For air monitoring, the locations and handler activities sampled must represent each handler's exposure occurring within the application block. For example, for an application consisting of a seven-handler crew (1 tractor driver, 1 tractor copilot, 4 shovelers, and 1 certified applicator supervising) two breathing zone samples could be collected: one sample for the tractor co-pilot and one sample for a downwind shoveler. Results of previous sampling may indicate which tasks and locations are worst case and therefore representative of all handlers.

High Release Height - Center Pivot or Lateral Move Irrigation Applications: (1) Release height OR spray height greater than 8 feet, and (2) there is greater than 30 lbs. PSI at the sprinkler head.

Medium Release Height - Center Pivot or Lateral Move Irrigation Applications: (1) Release height AND spray height is less than 8 feet, AND (2) 29 lbs. or less PSI at the sprinkler head, AND (3) there are no end guns.

Low Release Height-Solid Stream Center Pivot or Lateral Move Irrigation Applications: (1) Release height and spray height is less than 4 feet, AND (2) 29 lbs. or less PSI at the sprinkler head, AND (3) application system produces a solid stream, AND (4) there are no end guns.

Solid Stream: An uninterrupted liquid stream that remains generally as a coarse flow until contacting the intended target. An example of a solid stream application is Smart Drop®, also known as drizzle boom. Any application system that employs spray heads or nozzles with moving parts that produce a rotating or oscillating spray pattern (e.g., rotators, spinner, nutators, and wobblers) or that otherwise break up the stream into droplets does not qualify as a solid stream nozzle.

Weed Sprayer: In this labeling, weed sprayer refers to a tank that holds 100-500 gallons combined with an off-set spray boom that creates a swath about 4 feet on each side of an orchard tree row, leaving the untreated grassy middle to grow.

Use Sites

Only for use on the following:

Cover crops (i.e., crops planted between periods of regular crop production to prevent soil erosion). The terminated crop must not be used for any food or feed purposes after Metam CLR^{∞} 42% has been applied;

Crops grown solely for seed; as well as pre-plant soil uses for (in alphabetical order):

alfalfa; amaranth (including leafy amaranth, Chinese spinach, tampala); anise; apple (including: balsam, crabapple); apricot; artichokes; arugula (roquette); asparagus (nursery production only); barley; basil; beans (including: lima, green, fava, seed beans); beet (including garden);

berry (including black satin berry, blackberry, blueberry, boysenberry, chesterberry, lowberry, wild raspberry, youngberry, darrowberry, dewberry, cloudberry, elderberry, Cherokee blackberry, coryberry, European barberry, huckleberry, hullberry, gooseberry, cranberry, highbush cranberry, Himalayaberry, jostaberry, juneberry, saskatoon berry, lingonberry, loganberry, lavacaberry, lucretiaberry, mammoth blackberry, marionberry, bingleberry, mountain pepper berries, mulberry, olallieberry, dirksen thornless berry, nectarberry, Oregon evergreen berry, partridgeberry, phenomenalberry, rangeberry, raspberry (black and red), ravenberry, riberry, rossberry, schisandra berry, serviceberry, Shawnee blackberry, strawberry)

bok choy; broccoli; brussels sprouts; cabbage (including Napa); calabaza; calamondin; cardoon; carrot; casaba; cauliflower; celeriac; celery (including: Chinese); celtuce; chayote (fruit); che; cherry (including: sweet and tart, chokecherry, pincherry); chervil; cheyenne; Chilean guava; Chinese greens; Chinese okra; Chinese waxgourd (Chinese preserving melon); chinquapin; chironja; chrysanthemum; cilantro; citrus citron; citrus hybrids; collard; corn salad; corn; cotton; cress (including: upland, yellow rocket, winter cress); cucumber (including: Chinese cucumber); cucuzza; currant, (including: black, red, native and other varieties and hybrids);

dandelion; dill; dock (sorrel); eggplant; endive (escarole); fennel, Florence (finochio); forest seedlings; garland; garlic; gherkin; ginger; gourd; grape; grapefruit; hechima; herbs (all); honey balls; honeysuckle; hyotan; kale; kiwifruit (including: fuzzy and hardy); kohlrabi; kumquat; leek; lemon; lettuce (including: head and leaf); lime; loquat; mandarin (including: tangerine and satsuma); mango; mayhaw; maypop;

melon (including: bitter melon, cantaloupe, hybrids and/or cultivars, citron melon, crenshaw melon, golden pershaw melon, mango melon, honeydew melon, muskmelon, Persian melon, pineapple melon, Santa Claus melon, snake melon, watermelon);

mint; muntries; mustard; nectarine; nursery stock (fruit seedlings and rose bushes only); nursery tree crops (including crops like maple, ash, dogwood);

nut (including: almond, beech nut, cashew, chestnut, hickory nut, Brazil nut, macadamia nut (bush nut), filbert (hazelnut), pecan, pistachio, walnut (black and English/Persian);

onion; orach; orange (including: sour and sweet); ornamentals; parsley; peas (including: English and garden); peach; peanut; pear (including: oriental and balsam); pepper; phalsa; plum (including: Chickasaw and Damson); plumcot; potato; prune (fresh); pummelo; pumpkin; purslane (including: garden and winter); quince;

radicchio (red chicory); radish (including Oriental); rappini; rhubarb; rye; salal; sea buckthorn; soybean; spinach (including: New Zealand, Malabar, Indian); squash, (including: summer, winter, butternut, straightneck, Acorn, crookneck, hubbard, scallop, spaghetti); stevia; sugar beet; sweet potato; swiss chard; tangelo; tangor; tobacco; tomatoes; tree nuts (orchard replant only); turf (including golf courses); turnip; vegetable marrow; wheat; yams; zucchini.

Use Method Restrictions

The use of this product is restricted to the methods described in this label.

Use in greenhouses or any other enclosed structure or confined area is prohibited. Application with handheld equipment is prohibited. Application with cement grinder and shredder equipment is prohibited. Open pour applications are prohibited. Do not apply this product through traveler or big gun application systems.

Certified Applicator Training

Any certified applicator supervising a soil fumigant application must have successfully completed one of the soil fumigant training programs listed on the following EPA website www.epa.gov/fumiganttraining for the active ingredient(s) in this product. The training must be completed in the time frames listed on the website. The FMP must document the date and location where the soil fumigant training program was completed.

HANDLERS

Protection for Handlers

The following activities are prohibited from being performed by anyone other than persons who have been appropriately trained and equipped as handlers in accordance with the requirements in the Worker Protection Standard (40 CFR Part 170):

- · Monitoring fumigant air concentrations;
- Cleaning up fumigant spills (this does not include emergency personnel not associated with the fumigation application);
- · Handling or disposing of fumigant containers;
- Cleaning, handling, adjusting, or repairing the parts of fumigation equipment that may contain fumigant residues; and
- Performing any handling tasks as defined by the Worker Protection Standard (40 CFR 170).

The following activities are prohibited from being performed in the application block from the start of the application until the entry restricted period ends and in the buffer zone during the buffer zone period by anyone other than persons who have been appropriately trained and equipped as handlers in accordance with the requirements in WPS (40 CFR Part 170). (NOTE: persons repairing and monitoring tarps are considered handlers for the duration listed below). Prohibited activities (except for trained and equipped handlers) include:

- Participating in the application as supervisors, loaders, drivers, tractor co-pilots, shovelers, cross ditchers, or as other direct application participants;
- Installing, repairing, operating, or removing irrigation equipment;
- Performing scouting, crop advising, or monitoring tasks;
- Installing, perforating (cutting, punching, slicing, poking), or removing tarps; and
- Repairing or monitoring tarps until 14 days after application is complete if tarps are not perforated and removed during those 14 days. NOTE: see Tarp Perforation and/or Removal section on this labeling for requirements about when tarps are allowed to be perforated.

Handlers do not include local, state, or federal officials performing inspection, sampling, or other similar official duties.

Supervision of Handlers

For all applications, except water run, from the start of the application until the application is complete, a certified applicator must be at the application block in the line of sight of the application and must directly supervise all persons performing handling activities.

For water-run applications (e.g., sprinkler/chemigation, wheel line, center pivot, lateral move, drip, flood, etc.), a certified applicator must be in the line of sight of the application at the start of the application, including set-up, calibration, and initiation of the application. A certified applicator may leave but must return at least every two hours to visually inspect the equipment to ensure proper functioning, and must directly supervise all WPS-trained handlers until the application is complete. WPS-trained handlers may perform these monitoring functions in place of a certified applicator but they must be under the supervision of a certified applicator and be able to communicate with a certified applicator at all times during monitoring activities via cell phone or other means.

For handling activities that take place after the application is complete until the entry restricted period expires, the certified applicator is not required to be on-site, but must have communicated in a manner that can be understood by the site owner and handlers responsible for carrying out those activities the information necessary to comply with the label and procedures described in the FMP (e.g., emergency response plans and procedures).

IMPORTANT: this requirement does not override the requirements in the Worker Protection Standard for Agricultural Pesticides for information exchange between operators of agricultural establishments and commercial pesticide applicators.

The certified applicator must provide Fumigant Safe Handling Information to each handler or confirm that within the past 12 months, each handler has received Fumigant Safe Handling Information in a manner that he/she can understand. Fumigant Safe Handling Information will be provided where this product is purchased or at http://www.epa.gov/fumiganttraining.

Exclusion of Non-Handlers from the Application Block and Buffer Zone

The certified applicator supervising the application and the owner of the establishment where the application is taking place must make sure that all persons who are not trained and PPE-equipped and who are not performing one of the handling tasks as stated in this labeling across the state of the state

- excluded from the application block during the entry restricted period, and
- excluded from the buffer zone during the buffer zone period (see buffer zone exemption for transit on roadways in Buffer Zone Requirements section).

Local, state, or federal officials performing inspection, sampling, or other similar official duties are not excluded from the application block or the buffer zone by this labeling. The certified applicator supervising the application and the owner of the establishment where the application is taking place are not authorized to, or responsible for, excluding those officials from the application block or the buffer zone.

Providing, Cleaning, and Maintaining PPE

The employer of any handler (as stated in this label) must make sure that all handlers are provided and correctly wear the required PPE. The PPE must be cleaned and maintained as required by the Worker Protection Standard for Agricultural Pesticides.

Air Purifying Respirator Availability

The employer of any handler must confirm that an air purifying respirator and appropriate cartridges of the type specified in the PPE section of this labeling are immediately available for each handler who will wear one. At least one handler must have the appropriate airpurifying respirator and cartridges available (see *Respirator Fit Testing, Medical Qualification, and Training* section for additional requirements).

Exception: Air-purifying respirators do not need to be made available for handlers performing fumigant site monitoring tasks outside of the buffer zone.

Respirator Fit Testing, Medical Qualification, and Training

Using a program that conforms to OSHA's requirements, (see 29 CFR Part 1910.134) employers must verify that any handler who uses a respirator is:

- · Fit-tested and fit-checked,
- Trained, and
- Examined by a qualified medical practitioner to ensure physical ability to safely wear the style of respirator to be worn. A qualified medical practitioner is a physician or other licensed health care professional who will evaluate the ability of a worker to wear a respirator. The initial evaluation consists of a questionnaire that asks about medical conditions (such as a heart condition) that would be problematic for respirator use. If concerns are identified, then additional evaluations, such as a physical exam, might be necessary. The initial evaluation must be done before respirator use begins. Handlers must be reexamined by a qualified medical practitioner if their health status or respirator style or use-conditions change.

Upon request by local/state/federal/tribal enforcement personnel, employers must provide documentation demonstrating how they have complied with these requirements.

Respiratory Protection and Stop Work Triggers

The following procedures must be followed to determine whether an air-purifying respirator is required or if operations must cease for any person performing a handling task (except for fumigant site monitoring outside of the buffer zone) as stated in this label.

- If at any time any handler experiences sensory irritation (tearing, burning of the eyes or nose), then either:
 - An air-purifying respirator must be worn by all handlers who remain in the application block or surrounding buffer zone, or
 - Operations must cease and handlers not wearing an air-purifying respirator must leave the application block and surrounding buffer zone.
- Handlers can remove air-purifying respirators or resume operations if two consecutive breathing-zone samples taken at the handling site at least 15 minutes apart show that levels of MITC have decreased to less than 600 ppb (0.6 ppm), provided that handlers do not experience sensory irritation. During the collection of air samples, an air-purifying respirator must be worn by the handler taking the air samples. Samples must be taken at the location where the irritation was first experienced.
- When using monitoring devices to monitor air concentration levels, a direct read detection device, such as an electronic device or a colorimetric device (e.g., Draeger, Sensidyne) must be used. The devices must have sensitivity of at least 600 ppb (0.6 ppm) for MITC. Persons using direct read detection devices must follow the manufacturer's directions.
- When breathing zone samples are required, they must be taken outside respiratory
 protection equipment and within a 10 inch radius of the handler's nose and mouth.
- When air-purifying respirators are worn, air monitoring samples must be collected at least every 2 hours in the breathing zone of a handler performing a representative handling task.
- If at any time: (1) a handler experiences sensory irritation when wearing an air-purifying respirator, or (2) a MITC air sample is greater than or equal to 6,000 ppb (6 ppm), then all handler activities must cease and handlers must be removed from the application block and surrounding buffer zone.
- Handlers can resume work activities without air-purifying respirators if two consecutive breathing-zone samples taken at the handling site at least 15 minutes apart show levels of MITC have decreased to less than 600 ppb (0.6 ppm), provided that handlers do not experience sensory irritation. During the collection of air samples an air-purifying respirator must be worn by the handler taking the air samples. Samples must be taken at the location where the irritation was first experienced or where sample(s) were greater than or equal to 6,000 ppb (6 ppm).

- Handlers can resume work activities if all of the following conditions exist provided that the appropriate air-purifying respirator is worn:
 - two consecutive breathing zone samples for MITC taken at the handling site at least
 15 minutes apart must be less than 6,000 ppb (6 ppm),
 - handlers do not experience sensory irritation while wearing an air-purifying, and
 - filter cartridges/canisters have been changed.
 - During the collection of air samples an air-purifying respirator must be worn by the handler taking the air samples. Samples must be taken at the location where the irritation was first experienced or where sample(s) were greater than or equal to 6,000 ppb (6 ppm).

Tarp Perforation and/or Removal

IMPORTANT: Persons perforating, repairing, removing, and/or monitoring tarps are defined, within certain time limitations, as handlers (see *Handlers* section), and they must be provided the PPE and other protections for handlers as required on this labeling and in the Worker Protection Standard for Agricultural Pesticides.

- Tarps must not be perforated until a minimum of 5 days (120 hours) have elapsed after
 the application is complete, unless a weather condition exists which necessitates early
 tarp perforation or removal (see Early Tarp Removal for Broadcast Applications Only and
 Early Tarp Perforation during Flood Prevention Activities for Bedded Applications Only
 requirements).
- If tarps are perforated within 14 days after the application is complete, tarp removal must not begin until at least 2 hours after tarp perforation is complete.
- If tarps are perforated but not removed within 14 days after the application is complete, planting or transplanting must not begin until at least 48 hours after the tarp perforation is complete.
- If tarps are not perforated or removed within 14 days after the application is complete, planting or transplanting may take place while the tarps are being perforated.
- · Each tarp panel used for broadcast fumigation must be perforated.
- Tarps may be perforated manually ONLY for the following situations:
 - At the beginning of each row when a coulter blade (or other device which performs similarly) is used on a motorized vehicle such as an ATV.
 - In fields that are 1 acre or less.
 - During flood prevention activities
- In all other instances tarps must be perforated (cut, punched, poked, or sliced) only by mechanical methods.
- Tarp perforation for broadcast fumigations must be completed before noon.
- For broadcast fumigations, tarps must not be perforated if rainfall is expected within 12 hours.
- Early Tarp Removal for Broadcast Applications Only:
 - Tarps may be removed before the required 5 days (120 hours) if adverse weather conditions have compromised the integrity of the tarp, provided that the compromised tarp poses a safety hazard. Adverse weather includes high wind, hail, or storms that blow tarps off the field and create a hazard, e.g., tarps blowing into power lines and onto roads. A compromised tarp is a tarp that due to an adverse weather condition is no longer performing its intended function and is creating a hazard.
- $\bullet \ \ {\sf Early Tarp \ Perforation \ during \ Flood \ Prevention \ Activities \ for \ Bedded \ Applications \ Only:}$
 - Tarp perforation is allowed before the 5 days (120 hours) have elapsed.
 - Tarps must be immediately retucked and packed after soil removal.

Entry Restricted Period and Notification Entry Restricted Period

Entry into the application block (including early entry that would otherwise be permitted under the WPS) by any person – other than a correctly trained and PPE-equipped handler who is performing a handling task listed on this labeling – is PROHIBITED – from the start of the application until:

- 5 days (120 hours) after the application is complete for untarped applications, or
- 5 days (120 hours) after the application is complete if tarps are not perforated and removed for at least 14 days after the application is complete, or
- 48 hours after tarp perforation is complete if tarps will be perforated within 14 days after the application is complete and will not be removed for at least 14 days after the application is complete, or
- tarp removal is completed if tarps are both perforated and removed less than 14 days after the application is complete.

NOTE:

- See Tarp Perforation and/or Removal section on this labeling for requirements about when tarps are allowed to be perforated.
- If early tarp removal occurs for a broadcast application the entry restricted period is a minimum of 5 days after the application is complete.
- When listing application information for soil fumigant applications to comply with part 170.122 of the WPS, list the entry restricted period time frame in place of the REI.

Notification

Notify workers of the application by warning them orally and by posting Fumigant Treated Area signs. The signs must bear the skull and crossbones symbol and state:

- "DANGER/PELIGRO."
- "Area under fumigation, DO NOT ENTER/NO ENTRE",
- "METAM SODIUM FUMIGANT IN USE",
- the date and time of fumigation,
- the date and time entry restricted period is over,
- "METAM CLR 42%" and
- Name, address, and telephone number of the certified applicator in charge of the fumigation.

Post the Fumigant Treated Area sign instead of the WPS sign for this application, but follow all WPS requirements pertaining to location, legibility, text size, and sign size (40 CFR §170.120).

Post Fumigant Treated Area signs at all entrances to the application block no sooner than 24 hours prior to application.

Fumigant Treated Area signs must remain posted for no less than the duration of the entry restricted period.

Fumigant Treated Area signs must be removed within 3 days after the end of the entry restricted period.

Mandatory Good Agricultural Practices (GAPs)

The following GAPs must be followed during all fumigant applications.

Shank Applications

Weather Conditions

- To determine if unfavorable weather conditions exist or are predicted (see *Identifying Unfavorable Weather Conditions* section) and whether an application should proceed, the National Weather Service weather forecast must be checked by the certified applicator supervising the application:
 - on the day of, but prior to the start of the application, and
 - on a daily basis during the application if the time period from the start of the application until the application is complete is greater than 24 hours.
- Do not apply if an air stagnation advisory issued by the National Weather Service is in effect for the area in which the application is planned, during the application, or the 48 hours after the application is complete.
- Do not apply if light wind conditions (< 2 mph) are forecast to persist for more than 18
 consecutive hours from the time the application starts until 48 hours after the application
 is complete.
- Detailed National Weather Service forecasts for local weather conditions, wind speed, and air stagnation advisories may be obtained on-line at: http://www.nws.noaa.gov, on NOAA weather radio, or by contacting your local National Weather Service Forecasting Office.

$Identifying\ Unfavorable\ We ather\ Conditions$

Unfavorable weather conditions block upward movement of air, which results in trapping
fumigant vapors near the ground. The resulting air mass can move off-site in unpredictable
directions. These conditions typically exist within an hour prior to sunset and continue
past sunrise and may persist as late as noontime. Unfavorable conditions are common on
nights with limited cloud cover and light to no wind and their presence can be indicated by
ground fog or smog and can also be identified by smoke from a ground source that flattens
out below a ceiling layer and moves laterally in a concentrated cloud.

Soil Conditions, Injection Depth, and Soil Sealing

- Soil must be in good tilth, free of large clods, and tilled at a minimum to the depth of the
 treatment zone. Large clods can prevent effective soil sealing and reduce effectiveness
 of the application. If subsurface soil compaction layers (hardpans) are present within the
 intended fumigation treatment zone, a deep tillage to fracture these layers must occur
 prior to or during the soil fumigant application.
- Plant residue that is present must not interfere with the application or the soil seal. Non-decomposed plant material may harbor pests that will not be controlled by fumigation.
 Crop residue that is present must lie flat to permit the soil to be sealed effectively and limit the natural "chimneys" that may occur in the soil when plant residue is present. These "chimneys" allow the soil fumigants to move through the soil quickly and escape into the atmosphere. This may create potentially harmful conditions for workers and bystanders and limits the efficacy of the fumigant. Plant residue on the field serves to prevent soil erosion from both wind and water.

The injection point for bedded and broadcast shank injection applications shall be a minimum of 3 inches from the final soil/air interface. Chisel traces must be eliminated following an application and the soil surface must be sealed immediately after application using one or more of the following methods:

- Compaction with a bed-shaper, roller, press wheel, coil packer, ring packer, or similar device, OR
- Covering the treated soil with 3-6 inches of untreated soil, OR
- Applying a minimum of a 1/4-inch of water beginning immediately after application begins and completing the water treatment within four hours, OR
- · Covering treated area with a tarp

Tarps (when tarps are used in Metam CLR™ 42% applications)

- A written tarp plan must be developed and included in the FMP.
- Once a tarp is perforated, the application is no longer considered tarped.
- Tarps must be installed immediately after the fumigant is applied to the soil.

Soil Temperature

- At the beginning of the application, the soil temperature at the injection depth must be between 35° and 90°F.
- If air temperatures have been above 100°F in any of the three days prior to application, then soil temperature must be measured and recorded in the FMP. Record temperature measurements at the application depth or 12 inches, whichever is shallower.

Soil Moisture

- The soil moisture in the top six inches of soil must be between 60% to 80% of available water capacity immediately prior to the application, subject to the exception below.
- EXCEPTION: In areas where soil moisture must exceed available water capacity to form a bed (e.g., certain regions in Florida), soil moisture content may exceed 80%.
- If appropriate measuring equipment is not used to determine whether the soil moisture in the top six inches of soil is between 60% to 80% of available water capacity immediately prior to the application, the USDA Feel and Appearance Method test may be used to estimate whether the 60% to 80% soil moisture content requirement is met:
 - For coarse textured soils (fine sand and loamy fine sand), there must be enough
 moisture (50% to 75% of available water capacity) to form a weak ball with loose and
 clustered sand grains on fingers, darkened color, moderate water staining on fingers, will
 not ribbon.
 - For moderately coarse textured soils (sandy loam and fine sandy loam), there must be enough moisture (50% to 75% of available water capacity) to form a ball with defined finger marks, very light soil/water staining on fingers, darkened color will not stick.
 - For medium textured soils (sandy clay loam, loam, and silt loam), there must be enough
 moisture (50% to 75% of available water capacity) to form a ball, very light staining
 on fingers, darkened color, pliable, and forms a weak ribbon between the thumb and
 forefinger.
 - For fine textured soils (clay, clay loam, and silty clay loam), there must be enough
 moisture (50% to 75% of available water capacity) to form a smooth ball with defined
 finger marks, light soil/water staining on fingers, ribbons between thumb and forefinger.
 - For fields with more than one soil texture, soil moisture content in the lightest textured (most sandy) areas must comply with this soil moisture requirement. The field may be divided into areas of similar soil texture and the soil moisture of each area should be adjusted as needed. Coarser textured soils can be fumigated under conditions of higher soil moisture than finer textured soils; however, if the soil moisture is too high, fumigant movement will be retarded and effectiveness of the treatment will be reduced. Previous and/or local experience with the soil to be treated or the crop to be planted can often serve as a guide to conditions that will be acceptable. If there is uncertainty in determining the soil moisture content of the area to be treated, a local extension service or soil conservationist or pest control advisor (agriculture consultant) should be consulted for assistance.
- If there is insufficient moisture throughout the top six inches of soil immediately prior
 to the application, the soil moisture must be adjusted. If there is adequate soil moisture
 below six inches, soil moisture can be brought to the surface by tillage before or during
 injection. To conserve existing soil moisture, tillage should be done as close to the time of
 application as possible.

Application and Equipment Directions

- Do not apply or allow fumigant to spill onto the soil surface. Injectors must be below
 the soil surface before product flow begins. Each injection line must either have a check
 valve located as close as possible to the final injection point, or drain/purge the line of any
 remaining fumigant prior to lifting injection shanks from the ground. Do not lift injection
 shanks from the soil until the shut-off valve has been closed and the fumigant has been
 depressurized (passively drained) or purged (actively forced out via air compressor) from
 the system.
- Application equipment must be in good working order.
- All tanks, hoses, fittings, valves and connections must be serviceable, tightened, sealed and not leaking.
- Dry disconnect couplings (closed transfer system) must be installed on tanks and transfer hoses.
- Sight gauges and pressure gauges must be properly functioning.
- Nozzles and metering devices must be the correct size and sealed and unobstructed.

- Use only tanks, hoses and fittings designed to withstand the pressure of the system and resistant to Metam.
- Each nozzle must be equipped with a flow monitor, e.g. mechanical, electronic, or Red-ball type monitor.
- For undiluted product, aluminum, brass, copper, galvanized iron, and zinc materials cannot be used
- All rigs must include a filter to remove any particulates from the fumigant, and a check
 valve that is visible to the tractor driver during application to prevent backflow of the
 fumigant into the pressurizing cylinder.
- · All rigs must include a flow meter or a flow monitoring device.
- All rigs must have a constant pressure system with orifice plates to ensure the proper amount of fumigant is applied.
- Valves (e.g., backflow, shut-off), vacuum relief valves, and low pressure drains must be in place, operational, and leak free.
- Use only positive displacement pumps. Do NOT use impellors made of brass, aluminum, or galvanized material.
- Before using a fumigation rig for the first time, or when preparing it for use after storage, the operator must check the following items carefully:
 - Check the filter, and clean or replace the filter element as required.
 - Check all tubes and chisels/shanks to make sure they are free of debris and obstructions.
 - Check and clean the orifice plates.

Spray Blade Applications (includes bed-top blade and soil cap applications)

Weather Conditions

- To determine if unfavorable weather conditions exist or are predicted (see *Identifying Unfavorable Weather Conditions* section) and whether application should proceed, the National Weather Service weather forecast must be checked by the certified applicator supervising the application:
 - on the day of, but prior to the start of the application, and
 - on a daily basis during the application if the time period from the start of the application until the application is complete is greater than 24 hours.
- Do not apply if an air stagnation advisory issued by the National Weather Service is in
 effect for the area in which the application is planned, during the application, or the 48
 hours after the application is complete.
- Do not apply if light wind conditions (< 2 mph) are forecast to persist for more than 18
 consecutive hours from the time the application starts until 48 hours after the application
 is complete.
- Detailed National Weather Service forecasts for local weather conditions, wind speed, and air stagnation advisories may be obtained on-line at: http://www.nws.noaa.gov, on NOAA weather radio, or by contacting your local National Weather Service Forecasting Office.

Identifying Unfavorable Weather Conditions

Unfavorable weather conditions block upward movement of air, which results in trapping
fumigant vapors near the ground. The resulting air mass can move off-site in unpredictable
directions. These conditions typically exist prior to sunset and continue past sunrise and
persist as late as noontime. Unfavorable conditions are common on nights with limited
cloud cover and light to no wind and their presence can be indicated by ground fog or smog
and can also be identified by smoke from a ground source that flattens out below a ceiling
layer and moves laterally in a concentrated cloud.

Soil Conditions, Injection Depth, and Soil Sealing

- Soil must be in good tilth, free of large clods, and tilled at a minimum to the depth of the
 treatment zone. Large clods can prevent effective soil sealing and reduce effectiveness
 of the application. If subsurface soil compaction layers (hardpans) are present within the
 intended fumigation treatment zone, a deep tillage to fracture these layers must occur
 prior to or during the soil fumigant application.
- Plant residue that is present must not interfere with the application or the soil seal. Non-decomposed plant material may harbor pests that will not be controlled by fumigation. Crop residue that is present must lie flat to permit the soil to be sealed effectively and limit the natural "chimneys" that may occur in the soil when plant residue is present. These "chimneys" allow the soil fumigants to move through the soil quickly and escape into the atmosphere. This may create potentially harmful conditions for workers and bystanders and limits the efficacy of the fumigant. Plant residue on the field serves to prevent soil erosion from both wind and water.

Apply the product mixture on the soil immediately ahead of the bed-shaping equipment or tiller. The soil surface must be compacted immediately after application using one or more of the following methods:

- Compaction with a bed-shaper, roller, press wheel, coil packer, ring packer, or similar device, OR
- Covering the treated soil with 3-6 inches of untreated soil, OR
- \bullet Applying a minimum of a 1/4-inch of water beginning immediately after application begins and completing the water treatment within four hours, OR
- Covering treated area with a tarp.

Tarps (when tarps are used in Metam CLR 42% applications)

- A written tarp plan must be developed and included in the FMP.
- Once a tarp is perforated, the application is no longer considered tarped.

Soil Temperature

- At the beginning of the application, the soil temperature at the injection depth must be between 35° and 90°F.
- If air temperatures have been above 100°F in any of the three days prior to application, then soil temperature must be measured and recorded in the FMP. Record temperature measurements at the application depth or 12 inches, whichever is shallower.

Soil Moisture

- The soil moisture in the top six inches of soil must be between 60% to 80% of available water capacity immediately prior to the application, subject to the exception below.
- EXCEPTION: In areas where soil moisture must exceed available water capacity to form a bed (e.g., certain regions in Florida), soil moisture content may exceed 80%.
- If appropriate measuring equipment is not used to determine whether the soil moisture in
 the top six inches of soil is between 60% to 80% of available water capacity immediately
 prior to the application, the USDA Feel and Appearance Method test may be used to
 estimate whether the 60% to 80% soil moisture content requirement is met:
 - For coarse textured soils (fine sand and loamy fine sand), there must be enough
 moisture (50% to 75% of available water capacity) to form a weak ball with loose and
 clustered sand grains on fingers, darkened color, moderate water staining on fingers, will
 not ribbon.
- For moderately coarse textured soils (sandy loam and fine sandy loam), there must be enough moisture (50% to 75% of available water capacity) to form a ball with defined finger marks, very light soil/water staining on fingers, darkened color will not stick.
- For medium textured soils (sandy clay loam, loam, and silt loam), there must be enough
 moisture (50% to 75% of available water capacity) to form a ball, very light staining
 on fingers, darkened color, pliable, and forms a weak ribbon between the thumb and
 forefinger.
- For fine textured soils (clay, clay loam, and silty clay loam), there must be enough
 moisture (50% to 75% of available water capacity) to form a smooth ball with defined
 finger marks, light soil/water staining on fingers, ribbons between thumb and forefinger.
- For fields with more than one soil texture, soil moisture content in the lightest textured (most sandy) areas must comply with this soil moisture requirement. The field may be divided into areas of similar soil texture and the soil moisture of each area should be adjusted as needed. Coarser textured soils can be fumigated under conditions of higher soil moisture than finer textured soils; however, if the soil moisture is too high, fumigant movement will be retarded and effectiveness of the treatment will be reduced. Previous and/or local experience with the soil to be treated or the crop to be planted can often serve as a guide to conditions that will be acceptable. If there is uncertainty in determining the soil moisture content of the area to be treated, a local extension service or soil conservationist or pest control advisor (agriculture consultant) should be consulted for assistance.
- If there is insufficient moisture throughout the top six inches of soil immediately prior
 to the application, the soil moisture must be adjusted. If there is adequate soil moisture
 below six inches, soil moisture can be brought to the surface by tillage before or during
 injection. To conserve existing soil moisture, tillage should be done as close to the time of
 application as possible.

Application and Equipment Directions

- Do not apply or allow fumigant to drain or drip onto the soil surface
- · Application equipment must be in good working order.
- All tanks, hoses, fittings, valves and connections must be serviceable, tightened, sealed and not leaking
- Dry disconnect couplings (closed transfer system) must be installed on all tanks and transfer hoses.
- Sight gauges and pressure gauges must be properly functioning.
- · Nozzles and metering devices must be the correct size and sealed and unobstructed.
- Use only tanks, hoses and fittings designed to withstand the pressure of the system and resistant to Metam.
- Each nozzle must be equipped with a flow monitor, e.g. mechanical, electronic, or Red-ball type monitor.
- For undiluted product, aluminum, brass, copper, galvanized iron, and zinc materials cannot be used.
- All rigs must include a filter to remove any particulates from the fumigant, and a check
 valve that is visible to the tractor driver during application to prevent backflow of the
 fumigant into the pressurizing cylinder.
- Before using a fumigation rig for the first time, or when preparing it for use after storage, the operator must check the following items carefully:
- Check the filter, and clean or replace the filter element as required.
- Check all tubes and chisels to make sure they are free of debris and obstructions.
- Check and clean the orifice plates.

Rotary Tiller Applications

Weather Conditions

- To determine if unfavorable weather conditions exist or are predicted (see Identifying Unfavorable Weather Conditions section) and whether application should proceed, the National Weather Service weather forecast must be checked by the certified applicator supervising the application:
 - on the day of, but prior to the start of the application, and
 - on a daily basis during the application if the time period from the start of the application until the application is complete is greater than 24 hours.
- Do not apply if an air stagnation advisory issued by the National Weather Service is in
 effect for the area in which the application is planned, during the application, or the 48
 hours after the application is complete.
- Do not apply if light wind conditions (< 2 mph) are forecast to persist for more than 18 consecutive hours from the time the application starts until 48 hours after the application is complete
- Detailed National Weather Service forecasts for local weather conditions, wind speed, and air stagnation advisories may be obtained on-line at: http://www.nws.noaa.gov, on NOAA weather radio, or by contacting your local National Weather Service Forecasting Office.

Identifying Unfavorable Weather Conditions

Unfavorable weather conditions block upward movement of air, which results in trapping
fumigant vapors near the ground. The resulting air mass can move off-site in unpredictable
directions. These conditions typically exist prior to sunset and continue past sunrise and
persist as late as noontime. Unfavorable conditions are common on nights with limited
cloud cover and light to no wind and their presence can be indicated by ground fog or smog
and can also be identified by smoke from a ground source that flattens out below a ceiling
layer and moves laterally in a concentrated cloud.

Soil Conditions, Injection Depth, and Soil Sealing

- Soil must be in good tilth, free of large clods, and tilled at a minimum to the depth of the
 treatment zone. Large clods can prevent effective soil sealing and reduce effectiveness
 of the application. If subsurface soil compaction layers (hardpans) are present within the
 intended fumigation treatment zone, a deep tillage to fracture these layers must occur
 prior to or during the soil fumigant application.
- Plant residue that is present must not interfere with the application or the soil seal. Non-decomposed plant material may harbor pests that will not be controlled by fumigation. Crop residue that is present must lie flat to permit the soil to be sealed effectively and limit the natural "chimneys" that may occur in the soil when plant residue is present. These "chimneys" allow the soil fumigants to move through the soil quickly and escape into the atmosphere. This may create potentially harmful conditions for workers and bystanders and limits the efficacy of the fumigant. Plant residue on the field serves to prevent soil erosion from both wind and water.

Spray or drip the product mixture on the soil immediately ahead of the bed-shaping equipment or tiller. The soil surface must be compacted immediately after application using one or more of the following methods:

- Compaction with a bed-shaper, roller, press wheel, coil packer, ring packer, or similar device, OR
- Covering the treated soil with 3-6 inches of untreated soil, OR
- \bullet Applying a minimum of a 1/4-inch of water beginning immediately after application begins and completing the water treatment within four hours, OR
- Covering treated area with a tarp.

Tarps (when tarps are used in Metam CLR 42% applications)

- A written tarp plan must be developed and included in the FMP.
- Once a tarp is perforated, the application is no longer considered tarped.

Soil Temperature

- At the beginning of the application, the soil temperature at the injection depth must be between 35° and 90°F.
- If air temperatures have been above 100°F in any of the three days prior to application, then soil temperature must be measured and recorded in the FMP. Record temperature measurements at the application depth or 12 inches, whichever is shallower.

Soil Moisture

- The soil moisture in the top six inches of soil must be between 60% to 80% of available water capacity immediately prior to the application, subject to the exception below.
- EXCEPTION: In areas where soil moisture must exceed available water capacity to form a bed (e.g., certain regions in Florida), soil moisture content may exceed 80%.
- If appropriate measuring equipment is not used to determine whether the soil moisture in the top six inches of soil is between 60% to 80% of available water capacity immediately prior to the application, the USDA Feel and Appearance Method test may be used to estimate whether the 60% to 80% soil moisture content requirement is met:
 - For coarse textured soils (fine sand and loamy fine sand), there must be enough
 moisture (50% to 75% of available water capacity) to form a weak ball with loose and
 clustered sand grains on fingers, darkened color, moderate water staining on fingers,
 will not ribbon.

- For moderately coarse textured soils (sandy loam and fine sandy loam), there must be enough moisture (50% to 75% of available water capacity) to form a ball with defined finger marks, very light soil/water staining on fingers, darkened color will not stick.
- For medium textured soils (sandy clay loam, loam, and silt loam), there must be enough
 moisture (50% to 75% of available water capacity) to form a ball, very light staining
 on fingers, darkened color, pliable, and forms a weak ribbon between the thumb and
 forefinger.
- For fine textured soils (clay, clay loam, and silty clay loam), there must be enough
 moisture (50% to 75% of available water capacity) to form a smooth ball with defined
 finger marks, light soil/water staining on fingers, ribbons between thumb and forefinger.
- For fields with more than one soil texture, soil moisture content in the lightest textured (most sandy) areas must comply with this soil moisture requirement. The field may be divided into areas of similar soil texture and the soil moisture of each area should be adjusted as needed. Coarser textured soils can be furnigated under conditions of higher soil moisture than finer textured soils; however, if the soil moisture is too high, furnigant movement will be retarded and effectiveness of the treatment will be reduced. Previous and/or local experience with the soil to be treated or the crop to be planted can often serve as a guide to conditions that will be acceptable. If there is uncertainty in determining the soil moisture content of the area to be treated, a local extension service or soil conservationist or pest control advisor (agriculture consultant) should be consulted for assistance.
- If there is insufficient moisture throughout the top six inches of soil immediately prior
 to the application, the soil moisture must be adjusted. If there is adequate soil moisture
 below six inches, soil moisture can be brought to the surface by tillage before or during
 injection. To conserve soil moisture, tillage should be done as close to the time of
 application as possible.

Application and Equipment Directions

- Do not apply or allow fumigant to drain or drip onto the soil surface.
- Dry disconnect couplings (closed transfer system) must be installed on all tanks and transfer hoses.
- Application equipment must be in good working order.
- All tanks, hoses, fittings, valves and connections must be serviceable, tightened, sealed and not leaking.
- Sight gauges and pressure gauges must be properly functioning.
- Nozzles and metering devices must be the correct size and sealed and unobstructed.
- Use only tanks, hoses and fittings designed to withstand the pressure of the system and resistant to Metam
- Each nozzle must be equipped with a flow monitor, e.g. mechanical, electronic, or Red-ball type monitor.
- For undiluted product, aluminum, brass, copper, galvanized iron, and zinc materials cannot be used
- All rigs must include a filter to remove any particulates from the fumigant, and a check
 valve that is visible to the tractor driver during application to prevent backflow of the
 fumigant into the pressurizing cylinder.
- Before using a fumigation rig for the first time, or when preparing it for use after storage, the operator must check the following items carefully:
 - Check the filter, and clean or replace the filter element as required.
- Check all tubes and chisels shanks to make sure they are free of debris and obstructions.
- Check and clean the orifice plates.

Center Pivot and Lateral Move Applications

Wind Speed

- For lateral move or center pivot applications: 1) not using a solid stream type nozzle, OR 2) having a release height or spray height greater than 4 feet, OR 3) having 30 lbs or greater PSI at the sprinkler head, wind speed at the application site must be a minimum of 2 mph at the start of the application or forecasted to reach 5 mph during the application and the maximum wind speed is 10 mph.
- For lateral move or center pivot applications using: 1) a solid stream, AND 2) having release
 height and spray height less than 4 feet, AND 3) having 29 lbs. or less PSI at the sprinkler
 head, wind speed at the application site must be a minimum of 2 mph at the start of the
 application or forecasted to reach 5 mph during the application and the maximum wind
 speed is 25 mph.

Weather Conditions

- To determine if unfavorable weather conditions exist or are predicted (see "Identifying Unfavorable Weather Conditions" section) and whether application should proceed, the National Weather Service weather forecast must be checked by the certified applicator supervising the application:
 - on the day of, but prior to the start of the application, and
 - on a daily basis during the application if the time period from the start of the application until the application is complete is greater than 24 hours.
- Do not apply if an air stagnation advisory issued by the National Weather Service is in
 effect for the area in which the application is planned, during the application, or the 48
 hours after the application is complete.

- Do not apply if light wind conditions (< 2 mph) are forecast to persist for more than 18 consecutive hours from the time the application starts until 48 hours after the application is complete
- Detailed National Weather Service forecasts for local weather conditions, wind speed, and air stagnation advisories may be obtained on-line at: http://www.nws.noaa.gov, on NOAA weather radio, or by contacting your local National Weather Service Forecasting Office.

Identifying Unfavorable Weather Conditions

Unfavorable weather conditions block upward movement of air, which results in trapping
fumigant vapors near the ground. The resulting air mass can move off-site in unpredictable
directions. These conditions typically exist prior to sunset and continue past sunrise and
persist as late as noontime. Unfavorable conditions are common on nights with limited
cloud cover and light to no wind and their presence can be indicated by ground fog or smog
and can also be identified by smoke from a ground source that flattens out below a ceiling
layer and moves laterally in a concentrated cloud.

Soil Conditions

- Soil must be in good tilth, free of large clods, and tilled at a minimum to the depth of the
 treatment zone. Large clods can prevent effective soil sealing and reduce effectiveness
 of the application. If subsurface soil compaction layers (hardpans) are present within the
 intended fumigation treatment zone, a deep tillage to fracture these layers must occur
 prior to or during the soil fumigant application.
- Plant residue that is present must not interfere with the application or the soil seal. Non-decomposed plant material may harbor pests that will not be controlled by fumigation.
 Except when applying over cover crops as set forth in the Product Instructions, crop residue that is present must lie flat to permit the soil to be sealed effectively and limit the natural "chimneys" that may occur in the soil when plant residue is present. These "chimneys" allow the soil fumigants to move through the soil quickly and escape into the atmosphere. This may create potentially harmful conditions for workers and bystanders and limits the efficacy of the fumigant. Plant residue on the field serves to prevent soil erosion from both wind and water.

Soil Temperature

- At the beginning of the application, the soil temperature must be between 35° and 90°F, measured at 3 inches in depth.
- If air temperatures have been above 100°F in any of the three days prior to application, then soil temperature must be measured and recorded in the FMP. Record temperature measurements at the application depth or 12 inches, whichever is shallower.

Soil Moisture

- The soil moisture in the top six inches of soil must be between 60% to 80% of available water capacity immediately prior to the application, subject to the exception below.
- EXCEPTION: In areas where soil moisture must exceed available water capacity to form a bed (e.g., certain regions in Florida), soil moisture content may exceed 80%.
- If appropriate measuring equipment is not used to determine whether the soil moisture in the top six inches of soil is between 60% to 80% of available water capacity immediately prior to the application, the USDA Feel and Appearance Method test may be used to estimate whether the 60% to 80% soil moisture content requirement is met:
 - For coarse textured soils (fine sand and loamy fine sand), there must be enough
 moisture (50% to 75% of available water capacity) to form a weak ball with loose and
 clustered sand grains on fingers, darkened color, moderate water staining on fingers, will
 not ribbon.
- For moderately coarse textured soils (sandy loam and fine sandy loam), there must be enough moisture (50% to 75% of available water capacity) to form a ball with defined finger marks, very light soil/water staining on fingers, darkened color will not stick.
- For medium textured soils (sandy clay loam, loam, and silt loam), there must be enough
 moisture (50% to 75% of available water capacity) to form a ball, very light staining
 on fingers, darkened color, pliable, and forms a weak ribbon between the thumb and
 forefinger
- For fine textured soils (clay, clay loam, and silty clay loam), there must be enough
 moisture (50% to 75% of available water capacity) to form a smooth ball with defined
 finger marks, light soil/water staining on fingers, ribbons between thumb and forefinger.
- For fields with more than one soil texture, soil moisture content in the lightest textured (most sandy) areas must comply with this soil moisture requirement. The field may be divided into areas of similar soil texture and the soil moisture of each area should be adjusted as needed. Coarser textured soils can be fumigated under conditions of higher soil moisture than finer textured soils; however, if the soil moisture is too high, fumigant movement will be retarded and effectiveness of the treatment will be reduced. Previous and/or local experience with the soil to be treated or the crop to be planted can often serve as a guide to conditions that will be acceptable. If there is uncertainty in determining the soil moisture content of the area to be treated, a local extension service or soil conservationist or pest control advisor (agriculture consultant) should be consulted for assistance.
- If there is insufficient moisture throughout the top six inches below the surface of soil
 immediately prior to the application, the soil moisture must be adjusted. If there is
 adequate soil moisture below six inches, soil moisture can be brought to the surface by
 tillage prior to the application. To conserve soil moisture, tillage should be done as close to
 the time of application as possible.

Flushing Irrigation Lines

Do not allow furnigant to remain in the irrigation system after the application is complete.
 After application of the furnigant, flush the injection and irrigation system with untreated water. The flush time must be adequate to purge the furnigant from the injection and irrigation system, but should be less than the amount that could over-saturate the beds. If common lines are used for both the furnigant application and the water treatment/seal (if applied), these lines must be adequately flushed before starting the water treatment/seal.

Application and Equipment Directions

- Anti-siphon and backflow prevention devices must be installed and in working order.
- Tanks must be in good condition to ensure product does not spill or leak.
- Tanks must have sealable covers on access ports.
- Tanks must have proper pesticide labels affixed to them.
- All tanks, hoses, fittings, valves and connections must be serviceable, tightened, sealed and not leaking.
- Use only tanks, hoses and fittings designed to withstand the pressure of the system and resistant to Metam.
- Use only positive displacement pumps. DO NOT use impellors made of brass, aluminum or galvanized material.
- For undiluted product, aluminum, brass, copper, galvanized iron, and zinc materials cannot be used.
- The system must contain a functional check valve, vacuum relief valve, inspection port 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 toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally-closed, solenoidoperated 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 that 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.

Solid Set Sprinkler Applications

Wind Speed

 Wind speed at the application site must be a minimum of 2 mph at the start of the application or forecasted to reach 5 mph during the application and the maximum wind speed is 10 mph.

Weather Conditions

- To determine if unfavorable weather conditions exist or are predicted (see "Identifying Unfavorable Weather Conditions" section) and whether application should proceed, the National Weather Service weather forecast must be checked by the certified applicator supervising the application:
 - $\,-\,$ on the day of, but prior to the start of the application, and
 - on a daily basis during the application if the time period from the start of the application until the application is complete is greater than 24 hours.
- Do not apply if an air stagnation advisory issued by the National Weather Service is in effect for the area in which the application is planned, during the application, or the 48 hours after the application is complete.
- Do not apply if light wind conditions (< 2 mph) are forecast to persist for more than 18
 consecutive hours from the time the application starts until 48 hours after the application
 is complete.
- Detailed National Weather Service forecasts for local weather conditions, wind speed, and air stagnation advisories may be obtained on-line at: http://www.nws.noaa.gov, on NOAA weather radio, or by contacting your local National Weather Service Forecasting Office.

Identifying Unfavorable Weather Conditions

Unfavorable weather conditions block upward movement of air, which results in trapping
fumigant vapors near the ground. The resulting air mass can move off-site in unpredictable
directions. These conditions typically exist prior to sunset and continue past sunrise and
persist as late as noontime. Unfavorable conditions are common on nights with limited
cloud cover and light to no wind and their presence can be indicated by ground fog or smog
and can also be identified by smoke from a ground source that flattens out below
a ceiling layer and moves laterally in a concentrated cloud.

Soil Conditions

- Soil must be in good tilth, free of large clods, and tilled at a minimum to the depth of the
 treatment zone. Large clods can prevent effective soil sealing and reduce effectiveness
 of the application. If subsurface soil compaction layers (hardpans) are present within the
 intended fumigation treatment zone, a deep tillage to fracture these layers must occur
 prior to or during the soil fumigant application.
- Plant residue that is present must not interfere with the application or the soil seal. Non-decomposed plant material may harbor pests that will not be controlled by fumigation.
 Except when applying over cover crops as set forth in the Product Instructions, crop residue that is present must lie flat to permit the soil to be sealed effectively and limit the natural "chimneys" that may occur in the soil when plant residue is present. These "chimneys" allow the soil fumigants to move through the soil quickly and escape into the atmosphere.
 This may create potentially harmful conditions for workers and bystanders and limits the efficacy of the fumigant. Plant residue on the field serves to prevent soil erosion from both wind and water.

Soil Temperature

- At the beginning of the application, the soil temperature must be between 35° and 90° F, measured at 3 inches in depth.
- If air temperatures have been above 100°F in any of the three days prior to application, then soil temperatures must be measured and recorded in the FMP. Record temperature measurements at the application depth or 12 inches, whichever is shallower.

Soil Moisture

- The soil moisture in the top six inches of soil must be between 60% to 80% of available water capacity immediately prior to the application, subject to the exception below.
- EXCEPTION: In areas where soil moisture must exceed available water capacity to form a bed (e.g., certain regions in Florida), soil moisture content may exceed 80%.
- If appropriate measuring equipment is not used to determine whether the soil moisture in the top six inches of soil is between 60% to 80% of available water capacity immediately prior to the application, the USDA Feel and Appearance Method test may be used to estimate whether the 60% to 80% soil moisture content requirement is met:
 - For coarse textured soils (fine sand and loamy fine sand), there must be enough
 moisture (50% to 75% of available water capacity) to form a weak ball with loose and
 clustered sand grains on fingers, darkened color, moderate water staining on fingers, will
 not ribbon.
- For moderately coarse textured soils (sandy loam and fine sandy loam), there must be enough moisture (50% to 75% of available water capacity) to form a ball with defined finger marks, very light soil/water staining on fingers, darkened color will not stick.
- For medium textured soils (sandy clay loam, loam, and silt loam), there must be enough moisture (50% to 75% of available water capacity) to form a ball, very light staining on fingers, darkened color, pliable, and forms a weak ribbon between the thumb and forefinger.
- For fine textured soils (clay, clay loam, and silty clay loam), there must be enough
 moisture (50% to 75% of available water capacity) to form a smooth ball with defined
 finger marks, light soil/water staining on fingers, ribbons between thumb and forefinger.
- For fields with more than one soil texture, soil moisture content in the lightest textured (most sandy) areas must comply with this soil moisture requirement. The field may be divided into areas of similar soil texture and the soil moisture of each area should be adjusted as needed. Coarser textured soils can be fumigated under conditions of higher soil moisture than finer textured soils; however, if the soil moisture is too high, fumigant movement will be retarded and effectiveness of the treatment will be reduced. Previous and/or local experience with the soil to be treated or the crop to be planted can often serve as a guide to conditions that will be acceptable. If there is uncertainty in determining the soil moisture content of the area to be treated, a local extension service or soil conservationist.
- If there is insufficient moisture throughout the top six inches below the surface of soil
 immediately prior to the application, the soil moisture must be adjusted. If there is
 adequate soil moisture below six inches, soil moisture can be brought to the surface by
 tillage prior to the application. To conserve soil moisture tillage should be done as close to
 the time of application as possible.

Flushing Irrigation Lines

Do not allow fumigant to remain in the irrigation system after the application is complete.
 After application of the fumigant, flush the injection and irrigation system with untreated water. The flush time must be adequate to purge the fumigant from the injection and irrigation system, but should be less than the amount that could over-saturate the beds. If common lines are used for both the fumigant application and the water treatment/seal (if applied), these lines must be adequately flushed before starting the water treatment/seal.

Application and Equipment Directions

- Anti-siphon and backflow prevention devices must be installed and in working order.
- Tanks must be in good condition to ensure product does not spill or leak.
- Tanks must have sealable covers on access ports.
- Tanks must have proper pesticide labels affixed to them.
- All tanks, hoses, fittings, valves and connections must be serviceable, tightened, sealed and not leaking.
- Use only tanks, hoses and fittings designed to withstand the pressure of the system and resistant to Metam.
- Use only positive displacement pumps. Do NOT use impellors made of brass, aluminum, or galvanized material.
- For undiluted product, aluminum, brass, copper, galvanized iron, and zinc materials cannot be used.
- The system must contain a functional check valve, vacuum relief valve, inspection port, 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 toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally-closed, solenoidoperated 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 that 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.

Drench Applications

Weather Conditions

- To determine if unfavorable weather conditions exist or are predicted (see *Identifying Unfavorable Weather Conditions* section) and whether application should proceed, the National Weather Service weather forecast must be checked by the certified applicator supervising the application:
 - on the day of, but prior to the start of the application, and
 - on a daily basis during the application if the time period from the start of the application until the application is complete is greater than 24 hours.
- Do not apply if an air stagnation advisory issued by the National Weather Service is in effect for the area in which the application is planned, during the application, or the 48 hours after the application is complete.
- Do not apply if light wind conditions (< 2 mph) are forecast to persist for more than 18 consecutive hours from the time the application starts until 48 hours after the application is complete.
- Detailed National Weather Service forecasts for local weather conditions, wind speed, and air stagnation advisories may be obtained on-line at: http://www.nws.noaa.gov, on NOAA weather radio, or by contacting your local National Weather Service Forecasting Office.

Identifying Unfavorable Weather Conditions

Unfavorable weather conditions block upward movement of air, which results in trapping
furnigant vapors near the ground. The resulting air mass can move off-site in unpredictable
directions. These conditions typically exist prior to sunset and continue past sunrise and
persist as late as noontime. Unfavorable conditions are common on nights with limited
cloud cover and light to no wind and their presence can be indicated by ground fog or smog
and can also be identified by smoke from a ground source that flattens out below a ceiling
layer and moves laterally in a concentrated cloud.

Soil Conditions

- Soil must be in good tilth, free of large clods, and tilled at a minimum to the depth of the
 treatment zone. Large clods can prevent effective soil sealing and reduce effectiveness
 of the application. If subsurface soil compaction layers (hardpans) are present within the
 intended fumigation treatment zone, a deep tillage to fracture these layers must occur
 prior to or during the soil fumigant application.
- Plant residue that is present must not interfere with the application or the soil seal. Non-decomposed plant material may harbor pests that will not be controlled by fumigation.
 Crop residue that is present must lie flat to permit the soil to be sealed effectively and limit the natural "chimneys" that may occur in the soil when plant residue is present. These "chimneys" allow the soil fumigants to move through the soil quickly and escape into the atmosphere. This may create potentially harmful conditions for workers and bystanders and limits the efficacy of the fumigant. Plant residue on the field serves to prevent soil erosion from both wind and water.

Soil Temperature

- At the beginning of the application, the soil temperature must be between 35° and 90°F, measured at 3 inches in depth.
- If air temperatures have been above 100°F in any of the three days prior to application, then soil temperature must be measured and recorded in the FMP. Record temperature measurements at the application depth or 12 inches, whichever is shallower.

Soil Moisture

- The soil moisture in the top six inches of soil must be between 60% to 80% of available water capacity immediately prior to the application, subject to the exception below.
- EXCEPTION: In areas where soil moisture must exceed available water capacity to form a bed (e.g., certain regions in Florida), soil moisture content may exceed 80%.
- If appropriate measuring equipment is not used to determine whether the soil moisture in the top six inches of soil is between 60% to 80% of available water capacity immediately prior to the application, the USDA Feel and Appearance Method test may be used to estimate whether the 60% to 80% soil moisture content requirement is met:
- For coarse textured soils (fine sand and loamy fine sand), there must be enough
 moisture (50% to 75% of available water capacity) to form a weak ball with loose and
 clustered sand grains on fingers, darkened color, moderate water staining on fingers, will
 not ribbon
- For moderately coarse textured soils (sandy loam and fine sandy loam), there must be enough moisture (50% to 75% of available water capacity) to form a ball with defined finger marks, very light soil/water staining on fingers, darkened color will not stick.
- For medium textured soils (sandy clay loam, loam, and silt loam), there must be enough
 moisture (50% to 75% of available water capacity) to form a ball, very light staining
 on fingers, darkened color, pliable, and forms a weak ribbon between the thumb and
 forefinger.
- For fine textured soils (clay, clay loam, and silty clay loam), there must be enough
 moisture (50% to 75% of available water capacity) to form a smooth ball with defined
 finger marks, light soil/water staining on fingers, ribbons between thumb and forefinger.
- For fields with more than one soil texture, soil moisture content in the lightest textured (most sandy) areas must comply with this soil moisture requirement. The field may be divided into areas of similar soil texture and the soil moisture of each area should be adjusted as needed. Coarser textured soils can be fumigated under conditions of higher soil moisture than finer textured soils; however, if the soil moisture is too high, fumigant movement will be retarded and effectiveness of the treatment will be reduced. Previous and/or local experience with the soil to be treated or the crop to be planted can often serve as a guide to conditions that will be acceptable. If there is uncertainty in determining the soil moisture content of the area to be treated, a local extension service or soil conservationist.
- If there is insufficient moisture throughout the top six inches below the surface of soil
 immediately prior to the application, the soil moisture must be adjusted. If there is
 adequate soil moisture below six inches, soil moisture can be brought to the surface by
 tillage before the application. To conserve soil moisture, tillage should be done as close to
 the time of application as possible.
- Applications must be followed immediately with 0.20 to 0.50 inches of water through solid set sprinklers.
- A minimum of two more water seals must be applied; one water seal on the first evening of the application and the second on the evening of the day after application.

Application and Equipment Directions

- Anti-siphon and backflow prevention devices must be installed and in working order.
- Tanks must be in good condition to ensure product does not spill or leak.
- Tanks must have sealable covers on access ports.
- Tanks must have proper pesticide labels affixed to them.
- All tanks, hoses, fittings, valves and connections must be serviceable, tightened, sealed and not leaking.
- Dry disconnect couplings (closed transfer system) must be installed on all tanks and transfer hoses.
- Use only tanks, hoses and fittings designed to withstand the pressure of the system and resistant to Metam.
- For undiluted product, aluminum, brass, copper, galvanized iron, and zinc materials cannot be used.
- Each nozzle must be equipped with a flow monitor, e.g., mechanical, electronic, or Red-ball type monitor.
- · Nozzles and metering devices are of correct size and are sealed and unobstructed.
- To inject fumigant, use a metering system, effectively designed and constructed of materials that are compatible with the fumigant and capable of being fitted with system interlocking controls.
- The system must contain a functional check valve, vacuum relief valve, inspection port, 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 toward the injection pump.

- The pesticide injection pipeline must also contain a functional, normally-closed, solenoidoperated 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 that 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.

Drip Applications

Weather Conditions

- To determine if unfavorable weather conditions exist or are predicted (see "Identifying Unfavorable Weather Conditions" section) and whether application should proceed, the National Weather Service weather forecast must be checked by the certified applicator supervising the application:
- on the day of, but prior to the start of the application, and
- on a daily basis during the application if the time period from the start of the application until the application is complete is greater than 24 hours.
- Do not apply if an air stagnation advisory issued by the National Weather Service is in
 effect for the area in which the application is planned, during the application, or the 48
 hours after the application is complete.
- Do not apply if light wind conditions (< 2 mph) are forecast to persist for more than 18
 consecutive hours from the time the application starts until 48 hours after the application
 is complete.
- Detailed National Weather Service forecasts for local weather conditions, wind speed, and air stagnation advisories may be obtained on-line at: http://www.nws.noaa.gov, on NOAA weather radio, or by contacting your local National Weather Service Forecasting Office.

Identifying Unfavorable Weather Conditions

Unfavorable weather conditions block upward movement of air, which results in trapping
fumigant vapors near the ground. The resulting air mass can move off-site in unpredictable
directions. These conditions typically exist prior to sunset and continue past sunrise and
persist as late as noontime. Unfavorable conditions are common on nights with limited
cloud cover and light to no wind and their presence can be indicated by ground fog or smog
and can also be identified by smoke from a ground source that flattens out below a ceiling
layer and moves laterally in a concentrated cloud.

Soil Conditions

- Soil must be in good tilth, free of large clods, and tilled at a minimum to the depth of the
 treatment zone. Large clods can prevent effective soil sealing and reduce effectiveness
 of the application. If subsurface soil compaction layers (hardpans) are present within the
 intended fumigation treatment zone, a deep tillage to fracture these layers must occur
 prior to or during the soil fumigant application.
- Plant residue that is present must not interfere with the application or the soil seal. Non-decomposed plant material may harbor pests that will not be controlled by fumigation.
 Crop residue that is present must lie flat to permit the soil to be sealed effectively and limit the natural "chimneys" that may occur in the soil when plant residue is present. These "chimneys" allow the soil fumigants to move through the soil quickly and escape into the atmosphere. This may create potentially harmful conditions for workers and bystanders and limits the efficacy of the fumigant. Plant residue on the field serves to prevent soil erosion from both wind and water.

Soil Temperature

- At the beginning of the application, the soil temperature must be between 35° and 90° F, measured at 3 inches in depth.
- If air temperatures have been above 100°F in any of the three days prior to application, then soil temperature must be measured and recorded in the FMP. Record temperature measurements at the application depth or 12 inches, whichever is shallower.

Soil Moisture

- The soil moisture in the top six inches of soil must be between 60% to 80% of available water capacity immediately prior to the application, subject to the exception below.
- EXCEPTION: In areas where soil moisture must exceed available water capacity to form a bed (e.g., certain regions in Florida), soil moisture content may exceed 80%.
- If appropriate measuring equipment is not used to determine whether the soil moisture in the top six inches of soil is between 60% to 80% of available water capacity immediately prior to the application, the USDA Feel and Appearance Method test may be used to estimate whether the 60% to 80% soil moisture content requirement is met:
 - For coarse textured soils (fine sand and loamy fine sand), there must be enough moisture (50% to 75% of available water capacity) to form a weak ball with loose and clustered sand grains on fingers, darkened color, moderate water staining on fingers, will not ribbon.

- For moderately coarse textured soils (sandy loam and fine sandy loam), there must be enough moisture (50% to 75% of available water capacity) to form a ball with defined finger marks, very light soil/water staining on fingers, darkened color will not stick.
- For medium textured soils (sandy clay loam, loam, and silt loam), there must be enough
 moisture (50% to 75% of available water capacity) to form a ball, very light staining on
 fingers, darkened color, pliable, and forms a weak ribbon between the thumb and forefinger.
- For fine textured soils (clay, clay loam, and silty clay loam), there must be enough
 moisture (50% to 75% of available water capacity) to form a smooth ball with defined
 finger marks, light soil/water staining on fingers, ribbons between thumb and forefinger.
- For fields with more than one soil texture, soil moisture content in the lightest textured (most sandy) areas must comply with this soil moisture requirement. The field may be divided into areas of similar soil texture and the soil moisture of each area should be adjusted as needed. Coarser textured soils can be furnigated under conditions of higher soil moisture than finer textured soils; however, if the soil moisture is too high, furnigant movement will be retarded and effectiveness of the treatment will be reduced. Previous and/or local experience with the soil to be treated or the crop to be planted can often serve as a guide to conditions that will be acceptable. If there is uncertainty in determining the soil moisture content of the area to be treated, a local extension service or soil conservationist.
- If there is insufficient moisture throughout the top six inches below the surface of soil
 immediately prior to the application, the soil moisture must be adjusted. If there is
 adequate soil moisture below six inches, soil moisture can be brought to the surface by
 tillage prior to the application. To conserve soil moisture tillage should be done as close to
 the time of application as possible.

Tarps (when tarps are used in Metam CLR™ 42% applications)

- A written tarp plan must be developed and included in the FMP.
- Application to blocks with previously laid and perforated tarps is allowed, but once a tarp is
 perforated, the application is no longer considered tarped. Therefore, the application would
 not be eligible for tarp buffer zone credits.

Flushing Drip Irrigation Lines

After application of the fumigant, continue to irrigate the area with water to flush the injection
and irrigation system with untreated water. Do not allow fumigant to remain in the irrigation
system after the application is complete. The total volume of water must be adequate to
completely remove the fumigant from the irrigation system, but should be less than the
amount that could over-saturate the beds. If common lines are used for both the fumigant
application and the water treatment/seal (if applied), these lines must be adequately flushed
before starting the water treatment/seal and/or normal irrigation practices.

Application and Equipment Directions

- Anti-siphon and backflow prevention devices must be installed and in working order.
- Tanks must be in good condition to ensure product does not spill or leak.
- Tanks must have sealable covers on access ports.
- Tanks must have proper pesticide labels affixed to them.
- All tanks, hoses, fittings, valves and connections must be serviceable, tightened, sealed and not leaking.
- Use only tanks, hoses and fittings designed to withstand the pressure of the system and resistant to Metam.
- For undiluted product, aluminum, brass, copper, galvanized iron, and zinc materials cannot be used.
- The drip irrigation system (main lines, headers, drip tape) must be thoroughly checked for leaks before the start of the application. An adequate run-time and pressure are needed to detect leaks. Look for puddling along major pipes (holes on pipes or leaky joints), at the top and ends of rows (leaky connections, open drip tape), in the furrows and on the bed surface (damaged drip tape, malfunctioning emitters).
- To inject fumigant, use a metering system, effectively designed and constructed of materials that are compatible with the fumigant and capable of being fitted with system interlocking controls.
- Nozzles and metering devices are of correct size and are sealed and unobstructed.
- The system must contain a functional check valve, vacuum relief valve, inspection port, 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 toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally-closed, solenoidoperated 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 that 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.

Flood Basin, Furrow and Border Application

Weather Conditions

- To determine if unfavorable weather conditions exist or are predicted (see *Identifying Unfavorable Weather Conditions* section) and whether application should proceed, the National Weather Service weather forecast must be checked by the certified applicator supervising the application:
 - on the day of, but prior to the start of the application, and
 - on a daily basis during the application if the time period from the start of the application until the application is complete is greater than 24 hours.
- Do not apply if an air stagnation advisory issued by the National Weather Service is in
 effect for the area in which the application is planned, during the application, or the 48
 hours after the application is complete.
- Do not apply if light wind conditions (< 2 mph) are forecast to persist for more than 18 consecutive hours from the time the application starts until 48 hours after the application is complete
- Detailed National Weather Service forecasts for local weather conditions, wind speed, and air stagnation advisories may be obtained on-line at: http://www.nws.noaa.gov, on NOAA weather radio, or by contacting your local National Weather Service Forecasting Office.

Identifying Unfavorable Weather Conditions

Unfavorable weather conditions block upward movement of air, which results in trapping
furnigant vapors near the ground. The resulting air mass can move off-site in unpredictable
directions. These conditions typically exist prior to sunset and continue past sunrise and
persist as late as noontime. Unfavorable conditions are common on nights with limited
cloud cover and light to no wind and their presence can be indicated by ground fog or smog
and can also be identified by smoke from a ground source that flattens out below a ceiling
layer and moves laterally in a concentrated cloud.

Soil Conditions

- Soil must be in good tilth, free of large clods, and tilled at a minimum to the depth of the
 treatment zone. Large clods can prevent effective soil sealing and reduce effectiveness
 of the application. If subsurface soil compaction layers (hardpans) are present within the
 intended fumigation treatment zone, a deep tillage to fracture these layers must occur
 prior to or during the soil fumigant application.
- Plant residue that is present must not interfere with the application or the soil seal. Non-decomposed plant material may harbor pests that will not be controlled by fumigation. Crop residue that is present must lie flat to permit the soil to be sealed effectively and limit the natural "chimneys" that may occur in the soil when plant residue is present. These "chimneys" allow the soil fumigants to move through the soil quickly and escape into the atmosphere. This may create potentially harmful conditions for workers and bystanders and limits the efficacy of the fumigant. Plant residue on the field serves to prevent soil erosion from both wind and water.

Tarps (when tarps are used in Metam CLR 42% applications)

- A written tarp plan must be developed and included in the FMP.
- $\bullet\,$ Once a tarp is perforated, the application is no longer considered tarped.

Soil Temperature

- At the beginning of the application, the soil temperature must be between 35° and 90 °F measured at 3 inches in depth.
- If air temperatures have been above 100°F in any of the three days prior to application, then soil temperature must be measured and recorded in the FMP. Record temperature measurements at the application depth or 12 inches, whichever is shallower.

Soil Moisture

- The soil moisture in the top six inches of soil must be between 60% to 80% of available water capacity immediately prior to the application, subject to the exception below.
- EXCEPTION: In areas where soil moisture must exceed available water capacity to form a bed (e.g., certain regions in Florida), soil moisture content may exceed 80%.
- If appropriate measuring equipment is not used to determine whether the soil moisture in the top six inches of soil is between 60% to 80% of available water capacity immediately prior to the application, the USDA Feel and Appearance Method test may be used to estimate whether the 60% to 80% soil moisture content requirement is met:
- For coarse textured soils (fine sand and loamy fine sand), there must be enough
 moisture (50% to 75% of available water capacity) to form a weak ball with loose and
 clustered sand grains on fingers, darkened color, moderate water staining on fingers, will
 not ribbon.
- For moderately coarse textured soils (sandy loam and fine sandy loam), there must be enough moisture (50% to 75% of available water capacity) to form a ball with defined finger marks, very light soil/water staining on fingers, darkened color will not stick.
- For medium textured soils (sandy clay loam, loam, and silt loam), there must be enough
 moisture (50% to 75% of available water capacity) to form a ball, very light staining
 on fingers, darkened color, pliable, and forms a weak ribbon between the thumb and
 forefinger.
- For fine textured soils (clay, clay loam, and silty clay loam), there must be enough
 moisture (50% to 75% of available water capacity) to form a smooth ball with defined
 finger marks, light soil/water staining on fingers, ribbons between thumb and forefinger.
- For fields with more than one soil texture, soil moisture content in the lightest textured (most sandy) areas must comply with this soil moisture requirement. The field may be divided into areas of similar soil texture and the soil moisture of each area should be adjusted as needed. Coarser textured soils can be furnigated under conditions of higher soil moisture than finer textured soils; however, if the soil moisture is too high, furnigant movement will be retarded and effectiveness of the treatment will be reduced. Previous and/or local experience with the soil to be treated or the crop to be planted can often serve as a guide to conditions that will be acceptable. If there is uncertainty in determining the soil moisture content of the area to be treated, a local extension service or soil conservationist.
- If there is insufficient moisture throughout the top six inches below the surface of soil
 immediately prior to the application, the soil moisture must be adjusted. If there is
 adequate soil moisture below six inches, soil moisture can be brought to the surface by
 tillage prior to the application. To conserve existing soil moisture, tillage should be done as
 close to the time of application as possible.

Application and Equipment Directions

- Systems using a gravity flow pesticide dispersing 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.
- Meter at a steady rate into 3 to 18 inches of water per treated acre during irrigation.
 IMPORTANT: Prior to starting the application, always inspect ditches and border areas to ensure containment of the irrigation waters. Apply only into field head ditch. DO NOT APPLY INTO ANY LATERAL DITCHES.
- Backflow prevention devices must be installed and in working order.
- Tanks must be in good condition to ensure product does not spill or leak.
- Dry disconnect couplings (closed transfer system) must be installed on all tanks and transfer hoses.
- Tanks must have sealable covers on access ports.
- Tanks must have proper pesticide labels affixed to them.
- All tanks, hoses, fittings, valves and connections must be serviceable, tightened, sealed and not leaking.
- Use only tanks, hoses and fittings designed to withstand the pressure of the system and resistant to Metam.
- For undiluted product, aluminum, brass, copper, galvanized iron, and zinc materials cannot be used
- To inject fumigant, use a metering system effectively designed and constructed of materials that are compatible with the fumigant capable of being fitted with the system interlocking controls.
- Flow rates must be calibrated and checked for each application.
- All previous materials applied with the system must be cleaned thoroughly prior to fumigant application.
- System must be flushed after application to totally remove all fumigant.

Maximum Application Rates for Pre-Plant Soil Uses

Maximum application rate is 320 lbs Metam sodium per treated acre (75 gallons product per treated acre).

Calculating the Broadcast Equivalent Application Rate

To calculate the broadcast equivalent rate for bedded or strip applications the following information is needed:

- Gallons of product per treated acre
- strip or bed bottom width (inches)
- · center-to-center row spacing (inches)
- application block size (acres)

Gallons of product per treated acre is the ratio of total amount of product applied to the size of the total area treated (e.g., the rate of product applied in the bed). For bedded or strip applications, the total area treated is the summation of the area (i.e., length x width) of each treated bed bottom or strip that is located within the application block as shown by the green areas in Figure 1 (e.g., green areas are 0.6A or 60% of the area within the application block). The area of the space between the beds/strips is not factored in the total area treated.

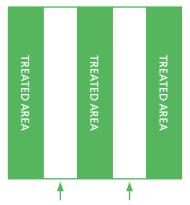
The application block size is the acreage within the perimeter of the fumigated portion of a field (including furrows, irrigation ditches, roadways). The perimeter of the application block is the border that connects the outermost edges of total area treated with the fumigant product.

The "broadcast equivalent rate" must be calculated with the following formula:



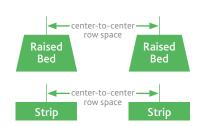
- The bed width must be measured from the bottom of bed.
- The center-to-center row spacing must calculate as shown in Figure 2.
- If there are any ditches, waterways, drive rows and other areas that are not fumigated that are
 in the application block, multiply the above broadcast equivalent equation by (total area of strips
 or beds + row spacing)/(application block size). A sample calculation is provided below.

Figure 1. Bedded/Strip Application (1 acre application block)



Space Between Beds/Strips is not treated

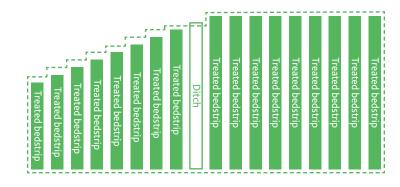
Figure 2. Center Row Spacing

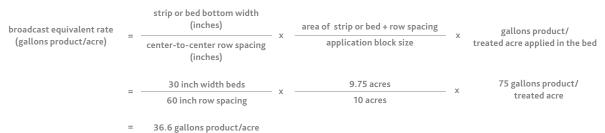


Sample Broadcast Equivalent Rate Calculation

Assumptions

- Application method is shank bedded
- Bed width is 30 inches (measured at the bottom of bed)
- Center-to-center row spacing is 60 inches
- 75 gallons of product per treated acre is applied in the beds
- Total application block size is 10 acres
- Ditch in the middle of application block is 0.25 acres
- Area of beds + row spacing is 9.75 acres





Buffer Zone Requirements

A buffer zone must be established for every fumigant application. The following describes the general buffer zone requirements:

- An area established around the perimeter of each application block. The buffer zone must extend outward from the edge of the application block perimeter equally in all directions.
- All non-handlers, including field workers, residents, pedestrians, and other bystanders, must be excluded from the buffer zone during the buffer zone period except for transit (see Buffer Zone Exemptions for Transit on Roadways).
- Local, state, or federal officials performing inspection, sampling, or other similar official
 duties are not excluded from the application block or the buffer zone by this labeling. The
 certified applicator supervising the application and the owner of the establishment where
 the application is taking place are not authorized to, or responsible for, excluding those
 officials from the application block or the buffer zone.
- The buffer zone period begins at the start of the application and lasts for a minimum of 48-hours after the application is complete.

Buffer Zone Proximity

- Before the start of application, the certified applicator must determine whether their buffer zone will overlap any metam sodium or metam potassium (or other MITC generating pesticides) buffer zone(s).
- To reduce the potential for off-site movement from multiple fumigated fields, buffer zones from multiple metam sodium or metam potassium (or other MITC generating pesticides) application blocks must not overlap UNLESS:
 - 1. A minimum of 12 hours have elapsed from the time the earlier application(s) is complete until the start of the later application, and
 - 2. Fumigant Site Monitoring or Response Information for Neighbors have been implemented if there are any residences or businesses within 300 feet of any of the buffer zones.

In addition, only for Low Release Height-Solid Stream Center Pivot Applications:

- Before the application begins, the certified applicator must determine whether the application block or its resulting buffer will overlap with a buffer that is already in effect.
- To reduce the potential for off-site movement from multiple fumigated fields, buffer zones from multiple metam sodium or metam potassium application blocks may not overlap UNI ESS:
- Both application blocks are treated using low release height-solid stream center pivot systems. The 12 hour waiting period does not apply in this instance.
 - NOTE: Under this exception, buffer zones may only overlap with those from application blocks that are not within the same field (i.e., application blocks must be in separate fields that are treated with a different center pivot rig also equipped with low release height etc.) For buffers from application blocks within the same field to overlap, 12 hours must elapse from the completion of the first application until the start of the subsequent application.
- Furnigant Site Monitoring or Response Information for Neighbors have been implemented if there are any residences or businesses within 300 feet of any of the buffer zones.

Structures Under the Control of the Owner of the Application Block

- Buffer zones must not include buildings used for storage (e.g., sheds, barns, garages), UNLESS:
 - The storage buildings are not occupied during the buffer zone period, and
 - The storage buildings do not share a common wall with an occupied structure.

Areas not under the Control of the Owner of the Application Block

- Buffer zones must not include residential areas (e.g., employee housing, private property), buildings (e.g., commercial, industrial), outdoor residential areas (e.g., lawns, gardens, play areas) and other areas that people may occupy, UNLESS:
- 1. The occupants provide written agreement, prior to the start of the application, that they will voluntarily vacate the buffer zone during the entire buffer zone period, and
- 2. Reentry by occupants and other non-handlers must not occur until,
 - > The buffer zone period has ended, and
 - > Sensory irritation is not experienced upon re-entry.
- Buffer zones must not include agricultural areas owned and/or operated by persons other than the owner of the application block, UNLESS:
 - The owner of the application block can ensure that the buffer zone will not overlap with a Metam sodium or Metam potassium (or other MITC generating pesticides) buffer zone from any other property owners, except as provided in the Buffer Zone Proximity section, and
 - The owner of the other property provides written agreement to the applicator that they, their employees, and other persons will stay out of the buffer zone during the entire buffer zone period.
- Buffer zones must not include roadways and rights of way UNLESS:
 - 1. The area is not occupied during the buffer zone period, and
 - 2. Entry by non-handlers is prohibited during the buffer zone period.

Buffer Zone Exemptions for Transit on Roadways

Vehicular and bicycle traffic on public and private roadways through the buffer zone is permitted. (NOTE: Buffer zones are not permitted to include bus stops or other locations where persons wait for public transit.)

- For all other publicly owned and/or operated areas such as parks, sidewalks, permanent
 walking paths, playgrounds, and athletic fields, buffer zones must not include these areas
 UNLESS:
 - 1. The area is not occupied during the buffer zone period,
 - 2. Entry by non-handlers is prohibited during the buffer zone period, and
- Written permission to include the public area in the buffer zone is granted by the appropriate state and/or local authorities responsible for management and operation of the area.

Certified applicators must comply with all local laws and regulations.

See the *Posting* section for additional requirements that may apply.

Buffer Zone Distances

Buffer zone distances must be calculated using the application rate and the size of the application block

- Buffer zone distances must be based on look-up tables in this labeling (25 feet is the minimum distance regardless of site-specific application parameters).
- If after applying all applicable buffer zone credits the buffer zone is greater than $\frac{1}{2}$ mile (2,640 ft), then the application is prohibited.
- Tables 1-12 as appropriate for the method of application must be used to determine the
 minimum buffer distances. Round up to the nearest rate and block size, where applicable.
 Applications are prohibited for rates or block sizes that exceed what is presented in the
 buffer zone tables.

Buffer Zone Tables

Table 1. Shank Injection Application—Broadcast Buffer Zone Distances in Feet

Т											Aı	oplicat	ion Bl	ock Siz	e (acre	es)										
Ca	al/A	1	2	3	4	5	6	7	8	9	10		20				40	50	60	70	80	90	100	120	140	160
	6	25	25	25	25	25	25	25	25	25	25	15 25	25	25 25	30 25	35 25	25	25	25	25	25	25	25	25	140 30	160 35
	7	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	30	35
	8	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	30	35
	9	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	30	35
	11	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	30	35
_	12	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	30	35
_	13	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	30	35
_	14	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	30	35
	15	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	26	31	36
	16	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	28	33	38
	18	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	30	36	41
	19	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	33	38	43
	20	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	26	27	35	40	46
	21	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	27	28	37	43	49
	22	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	27	29	30	39	45	51
	23	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	28	30	31	41	47	54
	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	26	30	32	33	43	50	57
_	26	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	28	31	33	34	45	52	60
2	27	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	29	32	35	36	47	55	62
2	28	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	26	30	34	36	38	49	57	65
2	29	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	26	27	31	35	38	39	51	59	68
3	31	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	27	28	33	37	39	41	53	62	70
3	32	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	28	30	34	38	41	42	55	64	73
3	33	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	26	29	31	35	39	42	44	57	66	76
3	34	25	25	25	25	25	25	25	25	25	25	25	25	25	25	26	27	30	32	36	41	44	45	59	69	79
3	35	25	25	25	25	25	25	25	25	25	25	25	25	25	26	27	28	31	33	38	42	45	47	61	71	81
3	36	25	25	25	25	25	25	25	25	25	25	25	25	26	27	28	29	32	34	39	44	47	48	63	73	84
3	88	25	25	25	25	25	25	25	25	25	25	25	25	27	28	29	30	33	35	40	45	48	50	65	76	87
3	39	25	25	25	25	25	25	25	25	25	25	25	26	28	29	30	31	34	37	42	47	51	53	69	81	92
4	10	25	25	25	25	25	25	25	25	25	25	25	27	29	30	31	32	35	40	45	50	53	56	73	85	97
4	11	25	25	25	25	25	25	25	25	25	25	25	27	30	31	32	33	36	42	47	52	56	59	77	90	103
4	12	25	25	25	25	25	25	25	25	25	25	25	28	30	32	33	34	37	44	49	54	58	62	81	95	108
_	13	25	25	25	25	25	25	25	25	25	25	25	29	31	32	34	35	38	47	52	57	61	65	85	99	113
	15	25	25	25	25	25	25	25	25	25	25	25	30	32	33	34	36	39	49	54	59	63	68	89	104	119
4	16	25	25	25	25	25	25	25	25	25	25	25	30	33	34	35	37	40	51	56	61	66	71	93	109	124
	17	25	25	25	25	25	25	25	25	25	25	25	31	34	35	36	38	41	53	58	63	68	74	97	113	129
	18	25	25	25	25	25	25	25	25	25	25	26	32	35	36	37	38	42	56	61	66	71	77	101	118	135
	19	25	25	25	25	25	25	25	25	25	25	26	33	35	37	38	39	43	58	63	68	73	80	105	123	140
_	0	25	25	25	25	25	25	25	25	25	25	27	34	36	38	39	40	44	60	65	70	76	83	109	127	145
_	52	25	25	25	25	25	25	25	25	25	25	28	34	37	39	40	41	45	63	68	73	78	86	113	132	151
	3	25	25	25	25	25	25	25	25	25	25	28	35	38	39	41	42	46	65	70	75	81	89	117	137	156
	4	25	25	25	25	25	25	25	25	25	25	29	36	39	40	42	43	47	67	72	77	83	92	121	141	161
	55	25	25	25	25	25	25	25	25	25	25	29	37	40	41	43	44	48	70	75	80	86	95	125	146	167
	6	25	25	25	25	25	25	25	25	25	25	30	38	41	42	44	45	50	72	77	82	88	98	129	151	172
	8	25	25	25	25	25	25	25	25	25	26	31	38	41	43	44	46	51	74	79 g1	84	91	101	133	155	177
	59	25 25	25	25	25	25	25	25	25	25	26	31	39	42	44	45	47	52	76 70	81	86	93	104	137	160	183
	50	25	25	25	25	25	25	25 25	25	25	27	32	40	43	45 46	46 47	48	53 54	79 81	84	89 91	96 98	107	141	165	188
	52	25	25 25	25 25	25 25	25 25	25 25	25	25 25	25 25	27	33	41	45	46	48	50	55	83		93	101	110	145	169 174	193 199
	53	25	25	25	25	25	25	25	25	26	28	34	42	46	47	49	51	56	86	88 91	96	101	116	153	174	204
	55	25	25	25	25	25	25	25	25	26	29	34	43	46	48	50	52	57	88	93	98	105	119	157	183	209
	66	25	25	25	25	25	25	25	25	27	29	35	44	47	49	51	53	58	90	95	100	115	130	164	191	219
1		25	25	25	25	25	25	25	25	27	30	36	45	48	50	52	53	59	92	97	102	117	132	167	195	223
6		25	25	25	25	25	25	25	26	28	30	36	45	49	51	53	54	60	93	98	104	119	135	170	198	226
6	8 1			25	25	25	25	25	26	28	31	37	46	50	52	53	55	61	95	100	105	121	137	173	202	230
6	_	25	25										47	51	53	54	56	62	96	102	107	123	139	176	205	234
6	59	25 25	25 25		25	25	25	25	27	29	31	- 20														
6	70	25	25	25	25 25	25 25	25 25	25 25	27	29	31	38					57	63	98		109					238
6 6 7	70 72	25 25	25 25	25 25	25	25	25	25	27	29	32	38	48	51	53	55	57 58	63 64	98 100	103	109	125	142	179	208	238
6 6 7 7	70	25	25	25													57 58 59	63 64 65	98 100 101		109 111 113					238 242 246

Table 2. Shank Injection Application—Broadcast with Water Seal* Buffer Zone Distances in Feet

										A	pplicat	ion Bl	ock Siz	e (acre	es)										
Gal/A	1	2	3	4	5	6	7	8	9	10	15	20	25	30	35	40	50	60	70	80	90	100	120	140	160
6	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
7	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
8	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
9	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
11	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
12	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
13	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
14	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
15	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
16	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
18	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
19	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
20	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
21	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
22	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
23	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
26	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
27	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
28	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
29	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
31	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
32	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
33	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
34	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
35	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
36	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
38	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
39	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
40	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
41	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
42	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
43	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
45	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
46	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
47	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
48	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
49	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
50	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
52	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
53	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
54	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
55	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
56	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
58	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
59	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
60	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
61	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
62	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
63	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
65	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
66	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
67	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
68	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
69	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
70	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
72	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
73	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
					2.5	2.5	25	25	25	25	2.5	1 25	25	25	25	25	2.5	2 E	25	25	25	2 E	25	25	25
74	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	23	23	25	25	25	23	23

^{*}Apply at least 0.25 inches of water immediately after application.

Table 3. Shank Injection Application—Bedded Buffer Zone Distances in Feet

												Appli	cation	Block	Size (a	acres)											
	Gal/A	1	2	3	4	5	6	7	8	9	10	15	20	25	30	35	40	50	60	70	80	90	100	110	120	140	160
	1	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	2	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	4	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	5	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	6	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	7	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	8	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	9	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	11	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	12	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	13	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	14	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	15	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	16	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
t/A	18	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
duc	19	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
(Gallons product/A)	20	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	40
JS F	21	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	40	55
	22	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	44	63	83
(Ca	23	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	44	63	83	102
te	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	28	30	55	80	105	130
Ra	26	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	46	65	78	95	118	140	163	186
.0.	27	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	28	30	68	105	133	160	180	200	220	240
Broadcast Equivalent Application Rate	28	25	25	25	25	25	25	25	25	25	25	25	25	25	25	31	34	43	51	86	120	150	179	199	219	239	259
ppl	29	25	25	25	25	25	25	25	25	25	25	25	25	25	25	36	43	58	72	104	136	167	198	218	238	258	278
t A	31	25	25	25	25	25	25	25	25	25	25	25	25	25	25	42	52	73	94	122	151	184	218	238	258	278	298
len	32	25	25	25	25	25	25	25	25	25	25	25	25	25	25	48	61	88	115	141	166	202	237	257	277	297	317
Na	33	25	25	25	25	25	25	25	25	25	25	25	25	25	25	53	70	103	136	159	182	219	256	276	296	316	336
Edu	34	25	25	25	25	25	25	25	25	25	25	25	25	25	25	59	79	118	157	177	197	236	275	295	315	335	355
1st	35	25	25	25	25	25	25	25	25	25	25	25	31	41	47	80	101	138	177	200	223	259	295	318	341	364	388
qcg	36	25	25	25	25	25	25	25	25	25	25	25	36	56	69	100	122	157	196	223	249	282	315	341	367	394	420
roa	38	25	25	25	25	25	25	25	25	25	25	25	42	72	91	121	144	177	216	246	276	305	335	364	394	423	453
Θ	39	25	25	25	25	25	25	25	25	25	25	25	48	87	113	142	166	197	236	269	302	328	354	387	420	453	485
	40	25	25	25	25	25	25	25	25	25	25	25	53	103	135	163	188	217	256	292	328	351	374	410	446	482	518
	41	25	25	25	25	25	25	25	25	25	25	25	59	118	157	183	209	236	275	315	354	374	394	433	472	511	550
	42	25	25	25	25	25	25	25	25	25	25	40	79	134	173	199	209	252	291	334	378	406	433	471	508	545	582
	42	25	25	25	25	25	25	25	25	25	25	54	98	150	189	215	241	268	307	354	401	437	473	508	543	578	614
	45	25	25	25	25	25	25	25	25	25	25	69	118	165	204	230	256	283	307	374	425	469	512	546	579	612	645
	46	25	25	25	25	25	25	25	25	25	25	83	137	181	220	246	272		338	393	448	500	552	583	614	646	677
	46	25	25	25	25	25	25	25	25	25	25	98		197	236	262	288	299 315	354	413			552		650		709
	47	25	25	25	25	25	25	30	32	35	37	108	157 164	204		262	288	335	354	413	472 492	532 551	611	621 645	680	680 714	709
															243												
	49	25	25	25	25	25	30	35	40	45	49	118	170	210	249	280	310	354	393	453	512	571	630	670	709	748	788
	50	25	25	25	25	25	32	40	47	54	62	128	177	217	256	289	321	374	413	472	532	591	650	694	739	783	827
	52	25	25	25	25	25	35	45	54	64	74	137	184	223	262	297	332	394	433	492	551	611	670	719	768	817	867
	53	25	25	25	25	25	37	49	62	74	86	147	190	230	269	306	343	414	453	512	571	630	690	744	798	852	906
	54	25	25	25	25	25	40	54	69	83	98	157	197	236	275	315	354	433	472	532	591	650	709	768	827	886	945
	55	25	25	25	25	25	43	59	77	93	110	167	204	243	284	324	365	452	491	552	611	670	729	790	857	924	991
	56	25	25	25	25	25	46	65	85	102	122	177	211	249	290	333	376	472	511	572	631	690	748	815	886	957	1028

Table 4. Center Pivot and Lateral Move Application (High Release Height*) Buffer Zone Distances in Feet

(A)								Annlicatio	on Block S	ize (acres)						
ct/A)			I	I	I	I				` '		I			I		
np	Gal/A	1	5	10	20	30	40	50	60	70	80	90	100	110	120	140	160
produc	8	50	50	50	75	75	100	100	200	200	200	250	300	350	400	600	800
10	13	80	100	100	138	138	200	200	300	300	300	350	400	450	500	700	900
allons	19	125	150	150	200	200	300	300	400	400	400	450	500	550	600	800	1000
(G)	23	160	188	200	250	269	363	382	475	488	500	550	600	650	700	900	1100
Rate	28	185	225	250	300	338	425	463	550	575	600	650	700	750	800	1000	1200
lon	33	205	263	300	350	407	488	544	625	663	700	750	800	850	900	1100	1300
cat	38	220	300	350	400	475	550	625	700	750	800	850	900	950	1000	1200	1400
Application	42	235	313	375	450	557	638	719	825	888	950	1000	1050	1100	1150	1350	1550
	47	250	325	400	500	638	725	813	950	1025	1100	1150	1200	1250	1300	1500	1700
quivalent	52	262	338	425	550	719	813	907	1075	1163	1250	1300	1350	1400	1450	1650	1850
·Ņ	56	275	350	450	600	800	900	1000	1200	1300	1400	1450	1500	1550	1600	1800	2000
ш	61	288	363	488	650	850	975	1100	1300	1400	1500	1563	1625	1688	1750	1950	2150
cast	66	300	375	525	700	900	1050	1200	1400	1500	1600	1675	1750	1825	1900	2100	2300
road	70	312	389	563	750	950	1125	1300	1500	1600	1700	1788	1875	1963	2050	2250	2450
Br	75	325	400	600	800	1000	1200	1400	1600	1700	1800	1900	2000	2100	2200	2400	2600

^{*}This buffer zone distance table is for center pivot and lateral move irrigation equipment in which the: 1) release height OR spray height greater than 8 feet, and 2) there is > 30 lbs psi at the sprinkler head.

Table 5. Center Pivot and Lateral Move Application (Medium Release Height*) Buffer Zone Distances in Feet

t/A								Application	on Block S	ize (acres)						
product/A)	Gal/A	1	5	10	20	30	40	50	60	70	80	90	100	110	120	140	160
Pro	8	25	25	25	25	25	50	50	75	75	75	88	100	150	200	400	600
Suc	13	25	38	50	50	50	75	75	138	138	138	169	200	250	300	500	700
allo	19	25	50	75	75	75	100	100	200	200	200	250	300	350	400	600	800
9 (G	23	37	63	94	107	125	163	182	275	288	300	350	400	450	500	700	900
Rate	28	50	75	113	138	175	225	263	350	375	400	450	500	550	600	800	1000
ation	33	62	88	132	169	225	288	344	425	463	500	550	600	650	700	900	1100
cat	38	75	100	150	200	275	350	425	500	550	600	650	700	750	800	1000	1200
Applica	42	87	113	175	250	357	438	519	625	688	750	800	850	900	950	1150	1350
ıt A	47	100	125	200	300	438	525	613	750	825	900	950	1000	1050	1100	1300	1500
alent	52	112	138	225	350	519	613	707	875	963	1050	1100	1150	1200	1250	1450	1650
quiv	56	125	150	250	400	600	700	800	1000	1100	1200	1250	1300	1350	1400	1600	1800
ш	61	138	171	288	450	650	775	900	1100	1200	1300	1363	1425	1488	1550	1750	1950
cas.	66	150	175	325	500	700	850	1000	1200	1300	1400	1475	1550	1625	1700	1900	2100
oad	70	162	188	363	550	750	925	1100	1300	1400	1500	1588	1675	1763	1850	2050	2250
Bro	75	175	200	400	600	800	1000	1200	1400	1500	1600	1700	1800	1900	2000	2200	2400

^{*} This buffer zone distance table is for center pivot and lateral move irrigation equipment in which the:

1) release height AND spray height is less than 8 feet, AND 2) 29lbs. or less PSI at the sprinkler head, AND 3) there are no end guns.

Table 6. Center Pivot and Lateral Move Application (Low Release Height-Solid Stream*) **Buffer Zone Distances in Feet**

t/A								Application	on Block S	ize (acres)						
product/A)	Gal/A	1	5	10	20	30	40	50	60	70	80	90	100	110	120	140	160
pro	8	25	25	25	25	25	25	25	50	63	75	88	100	125	150	350	550
Suc	13	25	25	38	38	38	50	50	75	100	125	138	150	188	225	425	625
(Gallons	19	25	25	50	50	50	75	75	100	138	175	188	200	250	300	500	700
	23	30	35	63	70	75	107	119	150	192	232	254	275	325	375	575	775
Rate	28	35	50	75	89	100	138	163	200	244	288	319	350	400	450	650	850
lon	33	40	63	88	107	125	169	207	250	297	344	385	425	475	525	725	925
Application	38	50	75	100	125	150	200	250	300	350	400	450	500	550	600	800	1000
ppli	42	60	94	125	157	188	238	294	363	419	475	532	588	644	700	900	1100
	47	70	113	150	188	225	275	338	425	488	550	613	675	738	800	1000	1200
uivalent	52	85	132	175	219	263	313	382	488	557	625	694	763	832	900	1100	1300
i.i	56	105	150	200	250	300	350	425	550	625	700	775	850	925	1000	1200	1400
t Eq	61	125	163	225	288	350	413	494	613	694	775	857	938	1019	1100	1300	1500
cast	66	145	175	250	325	400	475	563	675	763	850	938	1025	1113	1200	1400	1600
Broade	70	165	188	275	363	450	538	632	738	832	925	1019	1113	1207	1300	1500	1700
Br	75	185	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1600	1800

Table 7. Solid Set Sprinkler Application Buffer Zone Distances in Feet

ct/A)							Ар	plicatio	n Block	Size (ac	cres)											
무	Gal/A	1	2	3	4	5	6	7	8	9	10	20	30	40	50	60	70	80	90	100	110	120
pro	8	25	25	25	25	25	25	25	25	25	25	25	25	50	50	75	75	75	88	100	150	200
10	13	38	38	38	38	38	40	43	45	48	50	50	50	75	75	138	138	138	169	200	250	300
allon	19	50	50	50	50	50	55	60	65	70	75	75	75	100	100	200	200	200	250	300	350	400
e (G	23	55	57	58	60	63	69	75	81	87	94	107	125	163	182	275	288	300	350	400	450	500
Rat	28	62	65	67	70	75	83	90	98	105	113	138	175	225	263	350	375	400	450	500	550	600
ion	33	68	73	78	83	88	97	106	114	123	132	169	225	288	344	425	463	500	550	600	650	700
icati	38	75	81	88	94	100	110	120	130	140	150	200	275	350	425	500	550	600	650	700	750	800
pplica	42	80	88	97	105	113	125	138	150	163	175	250	357	438	519	625	688	750	800	850	900	950
\triangleleft	47	87	97	106	116	125	131	140	146	155	200	300	438	525	613	750	825	900	950	1000	1050	1100
alent	52	93	104	116	127	138	155	173	190	208	225	350	519	613	707	875	963	1050	1100	1150	1200	1250
.≧	56	100	113	125	138	150	170	190	210	230	250	400	600	700	800	1000	1100	1200	1100	1300	1350	1400
t Eq	61	115	129	143	157	171	185	199	213	283	288	450	650	775	900	1100	1200	1300	1363	1425	1488	1550
Icas	66	125	138	150	163	175	205	235	265	295	325	500	700	850	1000	1200	1300	1400	1475	1550	1625	1700
oad	70	137	150	163	175	188	223	258	293	328	363	550	750	925	1100	1300	1400	1500	1588	1675	1763	1850
Br	75	150	163	175	188	200	240	280	320	360	400	600	800	1000	1200	1400	1500	1600	1700	1800	1900	2000

^{*}This buffer zone distance table is for center pivot irrigation and lateral move equipment in which the:
1) release height AND spray height is less than 4 feet, AND 2) 29lbs, or less PSI at the sprinkler head, AND 3) application system produces a solid stream (e.g. drizzle boom/Smart Drop®), AND 4) there are no end guns.

Table 8. Drench Application Buffer Zone Distances in Feet*

									Δ	pplica	tion Blo	ock Siz	e (acres	s)									
Gal/A	1	2	3	4	5	6	7	8	9	10	15	20	25	30	35	40	50	60	70	80	90	100	120
6	28	31	34	36	39	42	44	47	51	55	70	86	94	102	109	125	141	156	164	180	195	211	234
7	34	37	41	44	47	50	53	56	61	66	84	103	113	122	131	150	169	188	197	216	234	253	281
8	40	44	47	51	55	58	62	66	71	77	98	120	131	142	153	175	197	219	230	252	273	295	328
9	46	50	54	58	63	67	71	75	81	88	113	138	150	163	175	200	225	250	263	288	313	338	375
11	51	56	61	66	70	75	80	84	91	98	127	155	169	183	197	225	253	281	295	323	352	380	422
12	57	62	68	73	78	83	88	94	102	109	141	172	188	203	219	250	281	313	328	359	391	422	469
13	63	68	74	80	86	92	97	103	112	120	155	189	206	223	241	275	309	344	361	395	430	464	516
14	68	75	81	87	94	100	106	113	122	131	169	206	225	244	263	300	338	375	394	431	469	506	563
15	74	81	88	95	102	108	115	122	132	142	183	223	244	264	284	325	366	406	427	467	508	548	609
16	80	87	95	102	109	117	124	131	142	153	197	241	263	284	306	350	394	438	459	503	547	591	656
18	85	93	101	109	117	125	133	141	152	164	211	258	281	305	328	375	422	469	492	539	586	633	703
19	91	100	108	117	125	134	142	150	163	175	225	275	300	325	350	400	450	500	525	575	625	675	750
20	97	106	115	124	133	142	150	159	173	186	239	292	319	345	372	425	478	531	558	611	664	717	797
21	102	112	122	131	141	150	159	169	183	197	253	309	338	366	394	450	506	563	591	647	703	759	844
22	108	118	128	138	148	159	168	178	193	208	267	327	356	386	416	475	534	594	623	683	742	802	891
23	114	124	135	146	156	167	177	188	203	219	281	344	375	406	438	500	563	625	656	719	781	844	938
25	119	131	142	153	164	175	186	197	213	230	295	361	394	427	459	525	591	656	689	755	820	886	984
26	125	137	149	160	172	184	195	206	223	241	309	378	413	447	481	550	619	688	722	791	859	928	1031
27	131	143	155	167	180	192	203	216	234	252	323	395	431	467	503	575	647	719	755	827	898	970	1078
28	137	149	162	175	188	200	212	225	244	263	338	413	450	488	525	600	675	750	788	863	938	1013	1125
29	142	155	169	182	195	209	221	234	254	273	352	430	469	508	547	625	703	781	820	898	977	1055	1172
31	148	162	176	189	203	217	230	244	264	284	366	447	488	528	569	650	731	813	853	934	1016	1097	1219
32	154	168	182	197	211	225	239	253	274	295	380	464	506	548	591	675	759	844	886	970	1055	1139	1266
33	159	174	189	204	219	234	248	263	284	306	394	481	525	569	613	700	788	875	919	1006	1094	1181	1313
34	165	180	196	211	227	242	256	272	295	317	408	498	544	589	634	725	816	906	952	1042	1133	1223	1359
35	171	187	203	218	234	250	265	281	305	328	422	516	563	609	656	750	844	938	984	1078	1172	1266	1406
36	176	193	209	226	242	259	274	291	315	339	436	533	581	630	678	775	872	969	1017	1114	1211	1308	1453
38	182	199	216	233	250	267	283	300	325	350	450	550	600	650	700	800	900	1000	1050	1150	1250	1350	1500
39	188	205	223	240	258	275	292	309	335	361	464	567	619	670	722	825	928	1031	1083	1186	1289	1392	1547
40	193	211	230	248	266	284	301	319	345	372	478	584	638	691	744	850	956	1063	1116	1222	1328	1434	1594
41	199	218	236	255	273	292	310	328	355	383	492	602	656	711	766	875	984	1094	1148	1258	1367	1477	1641
42	205	224	243	262	281	300	318	338	366	394	506	619	675	731	788	900	1013	1125	1181	1294	1406	1519	1688
43	210	230	250	269	289	309	327	347	376	405	520	636	694	752	809	925	1041	1156	1214	1330	1445	1561	1734
45	216	236	257	277	297	317	336	356	386	416	534	653	713	772	831	950	1069	1188	1247	1366	1484	1603	1781
46	222	243	263	284	305	325	345	366	396	427	548	670	731	792	853	975	1097	1219	1280	1402	1523	1645	1828
47	228	249	270	291	313	334	354	375	406	438	563	688	750	813	875	1000	1125	1250	1313	1438	1563	1688	1875
48	233	255	277	299	320	342	363	384	416	448	577	705	769	833	897	1025	1153	1281	1345	1473	1602	1730	1922
49	239	261	284	306	328	350	371	394	427	459	591	722	788	853	919	1050	1181	1313	1378	1509	1641	1772	1969
50	245	267	290	313	336	359	380	403	437	470	605	739	806	873	941	1075	1209	1344	1411	1545	1680	1814	2016
52	250	274	297	320	344	367	389	413	447	481	619	756	825	894	963	1100	1238	1375	1444	1581	1719	1856	2063
53	256	280	304	328	352	375	398	422	457	492	633	773	844	914	984	1125	1266	1406		1617	1758	1898	2109
54	262	286	311	335	359	384	407	431	467	503	647	791	863	934	1006	1150	1294	1438	1509	1653	1797	1941	2156
55 56	267 273	292	317 324	342	367	392	416	441	477	514	661	808	881	955	1028	1175	1322	1469	1542	1689	1836	1983	2203
56 58	273	299		350	375	401	425		488	525	675	825	900	975	1050	1200	1350	1500	1575	1725	1875	2025	
58 59		305 311	331	357	383 391	409 417	433	459 469	498	536	689 703	842	919	995	1072 1094	1225	1378	1531	1608	1761	1914	2067	229
60	284	317	338	364					508	547	703 717	859 877	938	1016		1250 1275	1406	1563 1594	1641	1797	1953 1992	2109	239
61	290	323	351	371 379	398 406	426 434	451 460	478 488	518 528	558 569	731	894	956 975	1036 1056	1116 1138	1300	1434 1463	1625	1673 1706	1833 1869	2031	2194	2438
62	301	330	351	386	414	442	460	488		580	745	911	975	1056	1158	1300	1463	1656	1706	1905	2070	2236	248
63	307	336	365	393	422	451	478	506	538 548	591	759	928	1013	1077	1181	1350	1519	1688	1772	1903	2109	2278	253
65	313	342	371	400	430	451	486	516	559	602	773	945	1013	1117	1203	1375	1547	1719	1805	1941	2148	2320	2578
66	319	348	378	400	438	467	495	525	569	613	788	963	1051	1138	1203	1400	1575	1719	1838	2013	2188	2363	262
67	324	354	385	415	445	476	504	534	579	623	802	980	1069	1158	1247	1425	1603	1781	1870	2013	2227	2405	264
			392																				
68 69	330 336	361 367	392	422	453 461	484	513	544	589	634 645	816	997	1088	1178 1198	1269 1291	1450 1475	1631 1659	1813 1844	1903	2084	2266	2447	268
70	341		405		469	492 501	522	553	599		830	1014	1106 1125	1219		1500		1875	1936	2156	2344	2531	2779
70	341	373		437		501	531	563	609	656	844				1313		1688		1969				
73	353	379 386	412 419	444 451	477 484	509 517	539 548	572 581	620	667	858 872	1048	1144 1163	1239 1259	1334 1356	1525 1550	1716 1744	1906 1938	2002	2192	2383	2573 2616	2825
74	353	392	419	451	492	526	548	591	630	678 689	886	1083	1181	1280	1378	1575	1772	1938	2034	2264	2422	2640	2918
74	220	JJL	443	733	772	220	١٥٦	וכנ	040	007	000	1003	1101	1200	12/0	د ا د ا	1//2	1505	2007	4404	Z401	2040	2310

^{*}Buffer zone distances cannot be greater than 1/2 mile (2,640 feet). If after applying applicable credits the buffer zone distances are still greater than 1/2 mile (2,640 feet), then the application is prohibited.

Table 9. Drip Application Buffer Zone Distances in Feet

									Ар	plicatio	n Block	Size (acı	res)								
	Gal/A	1	2	3	4	5	6	7	8	9	10	15	20	25	30	35	40	50	60	70	80
	4	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
product/A)	7	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
nc.	9	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
roo	12	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
	14	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
(Gallons	16	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
(Ca	19	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Rate	21	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	35	40	50
	23	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	45	55	75
Application	26	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	30	55	70	95
cat	28	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	35	65	90	120
ppli	31	25	25	25	25	25	25	25	25	25	25	25	30	40	50	50	55	75	105	135	165
	33	25	25	25	25	25	25	25	25	25	25	25	35	50	70	75	90	120	145	180	210
len	35	25	25	25	25	25	25	25	25	25	25	25	40	60	90	100	120	160	185	220	255
Equivalent	38	25	25	25	25	25	25	25	25	25	25	25	50	75	110	125	150	200	225	260	300
Equ	40	25	25	25	25	25	25	25	30	30	30	30	60	90	130	150	180	240	265	305	345
	42	25	25	25	25	25	25	25	30	30	30	35	65	100	155	175	215	280	305	350	390
Broadcast	45	25	25	25	25	25	25	25	30	35	35	40	70	115	175	200	245	325	345	390	435
roa	47	25	25	25	25	25	25	25	30	35	40	45	75	125	195	225	275	365	385	435	480
В	49	25	25	25	25	25	25	25	30	35	40	50	80	140	215	250	305	405	425	475	525
	52	25	25	25	25	25	25	25	30	40	45	55	90	150	240	275	340	450	465	520	570
	54	25	25	25	25	25	25	25	30	40	45	60	95	165	260	300	370	490	505	560	615
	56	25	25	25	25	25	25	25	30	40	50	65	100	175	280	325	400	530	545	605	660

Table 10. Flood Basin, Furrow, and Border Application Buffer Zone Distances in Feet

	Application Block Size (acres)																							
-	Gal/A	1	2	3	4	5	6	7	8	9	10	15	20	25	30	35	40	50	60	70	80	90	100	120
- F	6	25	25	25	25	25	34	36	38	41	43	55	63	70	78	90	102	113	125	137	148	160	172	195
-	7	25	25	25	35	38	40	43	46	49	52	66	75	84	94	108	122	136	150	164	178	192	206	234
	8	25	34	37	40	44	47	50	54	57	60	77	88	98	109	126	142	159	175	191	208	224	241	273
	9	35	39	43	46	50	54	58	61	65	69	88	100	113	125	144	163	181	200	219	238	256	275	313
	11	39	44	48	52	56	60	65	69	73	77	98	113	127	141	162	183	204	225	246	267	288	309	352
	12	44	48	53	58	63	67	72	77	81	86	109	125	141	156	180	203	227	250	273	297	320	344	391
	13	48	53	58	64	69	74	79	84	89	95	120	138	155	172	198	223	249	275	301	327	352	378	430
	14	53	58	64	69	75	81	86	92	98	103	131	150	169	188	216	244	272	300	328	356	384	413	469
	15	57	63	69	75	81	87	93	100	106	112	142	163	183	203	234	264	295	325	355	386	416	447	508
	16	61	68	74	81	88	94	101	107	114	120	153	175	197	219	252	284	317	350	383	416	448	481	547
	18	66	73	80	87	94	101	108	115	122	129	164	188	211	234	270	305	340	375	410	445	480	516	586
	19	70	78	85	93	100	108	115	123	130	138	175	200	225	250	288	325	363	400	438	475	513	550	625
	20	74	82	90	98	106	114	122	130	138	146	186	213	239	266	305	345	385	425	465	505	545	584	664
(A)	21	79	87	96	104	113	121	129	138	146	155	197	225	253	281	323	366	408	450	492	534	577	619	703
ict/	22	83	92	101	110	119	128	137	145	154	163	208	238	267	297	341	386	430	475	520	564	609	653	742
od(23	88	97	106	116	125	134	144	153	163	172	219	250	281	313	359	406	453	500	547	594	641	688	781
s pr	25	92	102	112	121	131	141	151	161	171	180	230	263	295	328	377	427	476	525	574	623	673	722	820
lon:	26	96	107	117	127	138	148	158	168	179	189	241	275	309	344	395	447	498	550	602	653	705	756	859
Cal	27	101	111	122	133	144	155	165	176	187	198	252	288	323	359	413	467	521	575	629	683	737	791	898
Broadcast Equivalent Application Rate (Gallons product/A)	28	105	116	128	139	150	161	173	184	195	206	263	300	338	375	431	488	544	600	656	713	769	825	938
Rat	29	109	121	133	145	156	168	180	191	203	215	273	313	352	391	449	508	566	625	684	742	801	859	977
lon	31	114	126	138	150	163	175	187	199	211	223	284	325	366	406	467	528	589	650	711	772	833	894	1016
cati	32	118	131	143	156	169	181	194	207	219	232	295	338	380	422	485	548	612	675	738	802	865	928	1055
ilq -	33	123	136	149	162	175	188	201	214	228	241	306	350	394	438	503	569	634	700	766	831	897	963	1094
t Ap	34 35	127 131	140 145	154 159	168 173	181 188	195 202	208	222	236	249	317 328	363 375	408	453 469	521 539	589 609	657 680	725 750	793 820	861 891	929 961	997 1031	1133
len.	36	136	150	165	179	194				244	258			436		557			775	848	920	993	1066	1172 1211
is a	38	140	155	170	185	200	208	223	237 245	252 260	266 275	339 350	388 400	450	484 500	575	630 650	702 725	800	875	950	1025	1100	1250
Equ	39	144	160	175	191	206	222	237	253	268	284	361	413	464	516	593	670	748	825	902	980	1057	1134	1289
ast	40	149	165	181	197	213	228	244	260	276	292	372	425	478	531	611	691	770	850	930	1009	1089	1169	1328
adc	41	153	170	186	202	219	235	252	268	284	301	383	438	492	547	629	711	793	875	957	1039	1121	1203	1367
3rog	42	158	174	191	208	225	242	259	276	293	309	394	450	506	563	647	731	816	900	984	1069	1153	1238	1406
	43	162	179	197	214	231	249	266	283	301	318	405	463	520	578	665	752	838	925	1012	1098	1185	1272	1445
	45	166	184	202	220	238	255	273	291	309	327	416	475	534	594	683	772	861	950	1039	1128	1217	1306	1484
	46	171	189	207	225	244	262	280	299	317	335	427	488	548	609	701	792	884	975	1066	1158	1249	1341	1523
	47	175	194	213	231	250	269	288	306	325	344	438	500	563	625	719	813	906	1000	1094	1188	1281	1375	1563
	48	179	199	218	237	256	275	295	314	333	352	448	513	577	641	737	833	929	1025	1121	1217	1313	1409	1602
	49	184	203	223	243	263	282	302	322	341	361	459	525	591	656	755	853	952	1050	1148	1247	1345	1444	1641
L	50	188	208	228	249	269	289	309	329	349	370	470	538	605	672	773	873	974	1075	1176	1277	1377	1478	1680
L	52	193	213	234	254	275	296	316	337	358	378	481	550	619	688	791	894	997	1100	1203	1306	1409	1513	1719
	53	197	218	239	260	281	302	323	345	366	387	492	563	633	703	809	914	1020	1125	1230	1336	1441	1547	1758
-	54	201	223	244	266	288	309	331	352	374	395	503	575	647	719	827	934	1042	1150	1258	1366	1473	1581	1797
-	55	206	228	250	272	294	316	338	360	382	404	514	588	661	734	845	955	1065	1175	1285	1395	1505	1616	1836
-	56	210	233	255	278	300	323	345	368	390	413	525	600	675	750	863	975	1088	1200	1313	1425	1538	1650	1875
-	58	214	237	260	283	306	329	352	375	398	421	536	613	689	766	880	995	1110	1225	1340	1455	1570	1684	1914
-	59	219	242	266	289	313	336	359	383	406	430	547	625	703	781	898	1016	1133	1250	1367	1484	1602	1719	1953
-	60	223	247 252	271	295 301	319	343 349	367 374	390 398	414	438	558 569	638	717	797	916 934	1036	1155	1275	1395	1514 1544	1634	1753	1992
+	62	228	257	276 282	306	325 331	356	381	406	423	447	580	650	731 745	813 828	952	1056 1077	1178 1201	1300 1325	1422	1573	1666 1698	1788 1822	2070
+	63	236	262	287	312	338	363	388	413	439	464	591	675	759	844	970	1077	1223	1350	1449	1603	1730	1856	2109
+	65	241	266	292	318	344	370	395	421	447	473	602	688	773	859	988	1117	1246	1375	1504	1633	1762	1891	2148
+	66	245	271	298	324	350	376	403	429	455	481	613	700	788	875	1006	1138	1269	1400	1531	1663	1794	1925	2188
+	67	249	276	303	330	356	383	410	436	463	490	623	713	802	891	1024	1158	1291	1425	1559	1692	1826	1959	2227
+	68	254	281	308	335	363	390	417	444	471	498	634	725	816	906	1042	1178	1314	1450	1586	1722	1858	1994	2266
-	69	258	286	313	341	369	396	424	452	479	507	645	738	830	922	1060	1198	1337	1475	1613	1752	1890	2028	2305
$\overline{}$	70	263	291	319	347	375	403	431	459	488	516	656	750	844	938	1078	1219	1359	1500	1641	1781	1922	2063	
\rightarrow		267	295	324	353	381	410	438	467	496	524	667	763	858	953	1096	1239	1382	1525	1668	1811	1954	2097	2383
	72									E0.4														
\dashv	73	271	300	329	358	388	417	446	475	504	533	678	775	872	969	1114	1259	1405	1550	1695	1841	1986	2131	2422
<u></u>			300 305	329 335	358 364	388 394	417 423	446 453	475 482	512	533	678	775	872	969	1114	1239	1403	1575	1723	1870	2018	2166	2461

Table 11. Rotary Tiller and Spray Blade Applications Buffer Zone Distances in Feet

€							Applicati	on Block Si	ze (acres)						
product/A)	Gal/A	1	5	6	7	8	9	10	20	30	40	50	60	70	80
Droc	8	25	25	25	25	25	25	25	25	25	25	25	25	25	25
l suc	13	25	25	25	25	25	25	25	25	25	25	25	25	25	25
(Gallons	19	25	25	25	25	25	25	25	25	25	25	25	25	25	25
e (C	23	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Rate	28	25	25	25	25	25	25	25	25	25	25	25	25	25	25
ion	33	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Application	38	25	25	25	25	25	25	25	25	25	25	25	25	25	25
ppli	42	25	25	25	25	25	25	25	25	25	25	42	57	64	72
	47	25	25	25	25	25	25	25	25	25	25	58	88	103	118
aler	52	25	25	25	25	25	25	25	25	25	25	74	119	142	164
quivalent	56	25	25	25	25	25	25	25	25	25	25	90	150	180	210
ш	61	25	25	27	29	30	32	34	49	64	75	135	188	218	248
Broadcast	66	25	25	29	32	36	39	43	73	103	125	180	225	255	285
oad	70	25	25	30	36	41	47	52	97	142	180	225	263	293	323
Br	75	25	25	32	39	46	53	60	120	180	225	270	300	330	360

Table 12. Weed Sprayer Application Buffer Zone Distances in Feet

duct/A)		Application Block Size (acres)														
quc.	Gal/A	1	5	10	20	30	40	50	60	70	80	90	100	110	120	
pro	8	50	50	50	75	75	100	100	200	200	200	250	300	350	400	
ns	13	80	100	100	138	138	200	200	300	300	300	350	400	450	500	
allo	19	125	150	150	200	200	300	300	400	400	400	450	500	550	600	
e (G	23	160	188	200	250	269	363	382	475	488	500	550	600	650	700	
Rate	28	185	225	250	300	338	425	463	550	575	600	650	700	750	800	
ion	33	205	263	300	350	407	488	544	625	663	700	750	800	850	900	
pplication	38	220	300	350	400	475	550	625	700	750	800	850	900	950	1000	
ppli	42	235	313	375	450	557	638	719	825	888	950	1000	1050	1100	1150	
⋖	47	250	325	400	500	638	725	813	950	1025	1100	1150	1200	1250	1300	
aler	52	262	338	425	550	719	813	907	1075	1163	1250	1300	1350	1400	1450	
quivalent	56	275	350	450	600	800	900	1000	1200	1300	1400	1450	1500	1550	1600	
ш	61	288	363	488	650	850	975	1100	1300	1400	1500	1563	1625	1688	1750	
cast	66	300	375	525	700	900	1050	1200	1400	1500	1600	1675	1750	1825	1900	
oad	70	312	389	563	750	950	1125	1300	1500	1600	1700	1788	1875	1963	2050	
Bro	75	325	400	600	800	1000	1200	1400	1600	1700	1800	1900	2000	2100	2200	

Buffer Zone Credits

The buffer zone distances for Metam CLR™ 42% applications may be reduced by the percentages listed below. Credits may be added, but credits cannot exceed 80%. Also, the minimum buffer zone distance is 25 feet regardless of buffer zone credits available.

See http://www.epa.gov/pesticides/tarpcredits/ for a list of tarps that have been tested and determined to qualify for buffer reduction credits. Only tarps listed on this website qualify for buffer reduction credits.

- 10% reduction in buffer zone distance, IF the organic content of the soil in the application block is ≥ 1% 2%; a 20% reduction is buffer zone distance, IF the organic content of the soil in the application block is >2% 3%; and a 30% reduction in the buffer zone distance, IF the organic content of the soil in the application block is >3%.
- 10% reduction in buffer zone distance, IF the soil temperature is measured to be 50°F or less. Record temperature measurements at the application depth or 12 inches, whichever is shallower.
- 10% reduction in the buffer zone distance, IF the clay content of the soil in the application block is greater than 27%.

Examples of Buffer Zone Calculations with Credits Applied

If the buffer zone is 50 feet and the application qualifies for a buffer zone reduction credit since the soil organic content is 1.5%, then the buffer zone can be reduced by 10%, i.e., reduced by 5 feet based on the following calculation: $50 \text{ feet} - (50 \text{ feet} \times 10\%) = 45 \text{ feet}$.

If the buffer zone is 50 feet and the application qualifies for two buffer zone credits since the soil organic content is 1.5% and the clay content is greater than 27%, then the buffer zone can be reduced by 20% (10% organic content credit + 10% clay content credit), i.e., reduced by 10 feet based on the following calculation 50 feet - (50 feet x 20%) = 40 feet.

Posting Fumigant Buffer Zones

- Posting of a **buffer zone** is required unless there is a physical barrier that prevents bystander access to the buffer zone.
- Buffer Zone signs must be placed along or outside the perimeter of the buffer zone, at all usual points of entry and along likely routes of approach from areas where people not under the owner's control may approach the buffer zone.
 - Some examples of points of entry include, but are not limited to, roadways, sidewalks, paths, and bike trails.
 - Some examples of likely routes of approach include, but are not limited to, the area between a buffer zone and a roadway, or the area between a buffer zone and a housing development.
 - When posting, the certified applicator supervising the application must ensure compliance with all local laws and regulations.
- Buffer Zone signs must meet the following criteria:
 - The printed side of the sign must face away from the application block toward areas from which people could approach.
 - Signs must remain legible during the entire posting period and must meet the general standards outlined in the WPS for sign size, text size, and legibility (see 40 CFR §170.120).
 - Signs must be posted no sooner than 24 hours prior to the start of the application and remain posted until the buffer zone period has expired.
 - Signs must be removed within 3 days after the end of the buffer zone period.
 - Buffer Zone signs which meet the criteria above will be provided at points of sale for applicators to use. Templates may be downloaded from http://www.epa.gov/pesticides/reregistration/soil_fumigants
 - $\,$ The Buffer Zone signs must contain the following information:
 - > The 'Do Not Walk' symbol
 - > DO NOT ENTER/NO ENTRE,
 - > METAM sodium (METAM CLR 42%) FUMIGANT BUFFER ZONE.
 - > Contact information for the certified applicator in charge of the fumigation.

Exception: If multiple contiguous blocks are fumigated within a 14-day period, the entire periphery of the contiguous blocks' buffer zones may be posted. Buffer Zone signs must be posted no sooner than 24-hours prior to the start of the first application. The signs must remain posted until the last buffer zone period expires and signs must be removed within 3-days after the buffer zone period for the last block has expired.

Restrictions for Difficult to Evacuate Sites

Difficult to evacuate sites are pre-K to grade 12 schools, state licensed daycare centers, nursing homes, assisted living facilities, hospitals, in-patient clinics, and prisons.

- No furnigant application with a buffer zone greater than 300 feet is permitted within 1/4
 mile (1320 feet) of difficult to evacuate sites unless the site is not occupied by children
 from state-licensed day care centers, students (pre-K to grade 12), patients, or prisoners
 during the application and the 36-hour period following the end of the application.
- No furnigant application with a buffer zone of 300 feet or less is permitted within 1/8 mile (660 feet) of difficult to evacuate sites unless the site is not occupied by children from state-licensed day care centers, students (pre-K to grade 12), patients, or prisoners during the application and the 36-hour period following the end of the application.

Emergency Preparedness and Response Measures

If the buffer zone is 25 feet, then the Emergency Preparedness and Response Measures are not applicable.

Triggers for Emergency Preparedness and Response Measures:

The certified applicator must either follow the directions under the *Fumigant Site*Monitoring section or follow the directions under the Response Information for Neighbors section if:

- the buffer zone is greater than **25 feet** but less than or equal to **100 feet**, and there are residences or businesses within **50 feet** from the outer edge of the buffer zone, or
- the buffer zone is greater than 100 feet but less than or equal to 200 feet, and there are residences or businesses within 100 feet from the outer edge of the buffer zone, or
- the buffer zone is greater than 200 feet but less than or equal to 300 feet, and there are residences or businesses within 200 feet from the outer edge of the buffer zone, or
- the buffer zone is greater than 300 feet or the buffer zones overlap, and there are residences or businesses within 300 feet from the outer edge of the buffer zone.

Fumigant Site Monitoring

NOTE: Fumigant Site Monitoring is ONLY required if the Emergency Preparedness and Response Measures are triggered AND directions from the Response Information for Neighbors section are not followed.

From the start of the application until the buffer zone period expires, a certified applicator or handler(s) under his/her supervision must:

- Monitor for sensory irritation in areas between the buffer zone outer perimeter and residences and businesses that trigger this requirement.
- Monitoring for sensory irritation must begin in the evening on the day of application and continue until the buffer zone period expires. Monitor a minimum of 8 times during the buffer zone period, including these periods:
- 1 hour before sunset,
- during the night,
- 1 hour after sunrise, and
- during daylight hours.

Implement the emergency response plan immediately if a handler monitoring experiences sensory irritation.

Response Information for Neighbors

NOTE: Response Information for Neighbors is ONLY required if the Emergency Preparedness and Response Measures are triggered AND directions from the Fumigant Site Monitoring section are not followed.

The certified applicator supervising the application must ensure that residences and businesses that trigger the requirement have been provided the response information at least 1 week before the application starts. The information provided may include application dates that range for no more than 4 weeks. If the application does not occur when specified, the information must be delivered again.

Information that must be included:

- The location of the application block.
- Furnigant(s) applied including the active ingredient, name of the furnigant product(s), and the EPA Registration number.
- Contact information for the applicator and property owner.
- Time period in which the application is planned to take place (must not range more than 4 weeks).
- Early signs and symptoms of exposure to the fumigant(s) applied, what to do, and who to call if you believe you are being exposed (911 in most cases).
- How to find additional information about fumigants.

The method used to share the response information for neighbors can be accomplished through mailings, door hangers, or other methods that will effectively inform the residences and businesses within the required distance from the edge of the buffer zone.

Notice to State and Tribal Lead Agencies

If your state and/or tribal lead agency requires notice, information must be provided to the appropriate state or tribal lead agency prior to the application. Please refer to www.epa.gov/fumigantstatenotice for a list of states and tribal lead agencies that require notice and information on how to submit the information.

The information that must be provided to state and tribal lead agencies includes the following:

- · Location of the application blocks,
- Fumigant(s) applied including EPA registration number,
- Applicator and property owner contact information, and
- Time period that fumigation may occur.

Emergency Response Plan

The certified applicator must include in the FMP a written emergency response plan that identifies:

- · evacuation routes,
- · locations of telephones,
- contact information for first responders and local/state/federal/tribal personnel, and
- emergency procedures/responsibilities (e.g., adding water to the field, repairing tarps, fixing equipment, evacuating upwind) if:
 - there is an incident,
 - sensory irritation is experienced outside of the buffer zone, and/or there are equipment/ tarp/seal failure or complaints, or other emergencies.

Site-Specific Fumigation Management Plan (FMP)

Prior to the start of application, the certified applicator supervising the application must verify that a site-specific FMP exists for each application block. In addition, an agricultural operation fumigating multiple application blocks may format the FMP in a manner whereby all of the information that is common to all the application blocks is captured once, and any information unique to a particular application block or blocks is captured in subsequent sections.

The FMP must be prepared by the certified applicator, the site owner, registrant, or other party.

The certified applicator must verify in writing (sign and date) that the site-specific FMP(s) reflects current site conditions before the start of application.

Each site specific FMP must contain the following elements:

- Certified Applicator Supervising the Application
 - Name,
 - Phone number,
 - Pesticide applicator license and/or certificate number,
- Specify if commercial or private applicator,
- Employer name,
- Employer address, and
- Date and location of completing EPA approved soil fumigant training program.

- · General site information
 - Application block location (e.g., county, township-range-section quadrant), address, or global positioning system (GPS) coordinates
 - Name, address, and phone number of application block owner
 - Site map, aerial photo or detailed sketch showing:
 - > application block location
 - > application block dimensions
 - > buffer zone dimensions
 - > property lines
 - > roadways
 - > rights-of-ways
 - > sidewalks
 - > permanent walking paths
 - > bus stops
 - > nearby application blocks
 - > surrounding structures (occupied and non-occupied)
 - > locations of Buffer Zone signs, and
 - > locations of difficult to evacuate sites within ¼ mile of the application block if the buffer zone is greater than 300 feet, or 1/8 mile if the buffer zone is 300 feet or less.
 - Comment
- General application information
- Target application date/window,
- Fumigant Product Name, and
- EPA registration number.
- Tarp Plan (if tarp is used)
- Schedule for checking tarps for damage, tears, and other problems,
- Minimum size of damage that will be repaired,
- Factors used to determine when tarp repair will be conducted,
- Equipment/methods used to perforate tarps,
- Target dates for perforating tarps, and
- Target dates for removing tarps.
- Soil conditions
 - Description of soil texture in the application block, description of soil moisture and method used to determine soil moisture, and
 - Soil temperature measurement if air temperatures were above 100 ° F in any of the 3 days prior to the application
- Buffer zones
 - Application method,
 - Injection depth,
 - Application rate from lookup table on label,
- Application block size from lookup table on label,
- Credits applied and measurements taken (if applicable),
 - > Tarp brand name, Lot number, Thickness, Manufacturer, Batch number, Part number and Color
 - > Organic matter content
- > Clay content
- > Soil temperature
- Buffer zone distance, and
- Description of areas in the buffer zone that are not under the control of the owner of the application block. If buffer zones extend onto areas not under the control of the owner, attach the written agreement and keep it with the FMP.
- Record Emergency Response Plan as described in the Emergency Response Plan section.
- Posting of Fumigant Treated Area and Buffer Zone
- Person(s) who will post and remove (if different) Furnigant Treated Area and Buffer Zone signs, and
- Location of Buffer Zone signs.
- Emergency Preparedness and Response Measures (if applicable)
 - Fumigant site monitoring (if applicable):
 - > When and where it will be conducted;
 - Response information for neighbors (if applicable):
 - > List of residences and businesses informed,
 - > Name and phone number of person providing information, and
 - > Method of providing the information.
- State and/or tribal lead agency advance notification (if state and/or tribal lead agency requires notice, provide a list of contacts that were notified and date notified)
- Plan describing how communication will take place between the certified applicator supervising the application, the owner, and other on-site handlers (e.g., tarp perforators/ removers, irrigators) for complying with label requirements (e.g., buffer zone location, buffer zone start and end times, timing of tarp perforation and removal, PPE).
- Name and phone number of persons contacted by the certified applicator, and
- Date contacted.

- Handler (including Certified Applicators) Information and PPE
 - Names, addresses and phone numbers of handlers
 - Names, addresses, and phone numbers for employers of handlers
 - Tasks that each handler is authorized and trained to perform
 - Date of PPE training for each handler
 - Applicable handler PPE including:
 - > Long-sleeved shirts/long pants, shoes, socks
 - > Chemical-resistant apron
 - > Chemical-resistant footwear and socks
 - > Protective eyewear (not goggles)
 - > Chemical-resistant gloves
 - > Air-purifying respirators
 - Respirator make, model, type, style, size, and cartridge/canister type
 - > Other PPF
 - For handlers: Confirmation of receipt of Fumigant Safe Handling Information.
 - For handlers designated to wear air-purifying respirators:
 - > date of medical qualification to wear a respirator,
 - > date of respirator training, and
 - > date of fit-testing for the respirator.
 - Unless exempted in the Protection of Handlers section, verify that:
 - > at minimum 1 handler has the appropriate respirators and cartridges/canisters during handler activities, and
 - > the employer has confirmed that the appropriate respirator and cartridges/canisters are immediately available for each handler who will wear one.
- · Air monitoring plan
 - If sensory irritation is experienced, indicate whether operations will cease or operations will continue with use of an air-purifying respirator
 - For monitoring the breathing zone:
 - > Representative handler tasks to be monitored,
 - > Monitoring equipment to be used, and
 - > Timing of the monitoring.
- Good Agricultural Practices (GAPs)
 - Identify (e.g., list, attach applicable label section) applicable mandatory GAPs.
 - Ensure that labels and MSDS are on-site and readily available for employees to review.

Record-Keeping Procedures

The owner of the application block as well as the certified applicator supervising the application must keep a signed copy of the site-specific FMP for 2 years from the date of application.

For situations where an initial FMP is developed and certain elements do not change for multiple application blocks (e.g., applicator information, certified applicator, handlers, record-keeping procedures, emergency procedures) only elements that have changed need to be updated in the site-specific FMP provided the following:

- The certified applicator supervising the application has verified that those elements are current and applicable to the application block before it is fumigated.
- Record-keeping requirements are followed for the entire FMP (including elements that do not change).

The certified applicator must make a copy of the FMP immediately available for viewing by handlers involved in the fumigation. The certified applicator or the owner of the application block must provide a copy of the FMP to any local/state/federal/tribal enforcement personnel who request the FMP. In the case of an emergency, the FMP must be made immediately available when requested by local/state/federal/tribal emergency response and enforcement personnel. The certified applicator supervising the application must ensure the FMP is at the application block during all handler activities.

Within 30 days after the application is complete, the certified applicator supervising the application must complete a Post-Application Summary.

Post-Application Summary

The Post-Application Summary must contain the following elements:

- Actual date and time of the application
- Application rate
- Size of application block
- Weather conditions:
- Summary of the National Weather Service weather forecast during the application and the 48-hours after the application is complete including:
 - > wind speed, and
 - > air stagnation advisory (if applicable).

- Forecast must be checked on the day of, but prior to the start of the application, and on
 a daily basis during the application if the time period from the start of the application
 until the application is complete is greater than 24 hours.
- Tarp damage and repair information (if applicable):
 - Date of tarp damage discovery,
- Location and size of tarp damage,
- Description of tarp/tarp seal/tarp equipment failure, and
- Date and time of tarp repair completion.
- Tarp perforation/removal details (if applicable):
 - Date and time tarps were perforated,
 - Date and time tarps were removed, and
 - Record if tarps were perforated and/or removed early. Describe the conditions that caused early tarp perforation and/or removal.
- Complaint details (if applicable):
- Person filing complaint (e.g., on-site handler, person off-site),
- If off-site person, name, address, and phone number of person filing complaint, and
- Description of control measures or emergency procedures followed after complaint.
- Description of incidents (including date and time), equipment failure, or other emergency and emergency procedures followed (if applicable).
- Communication between applicator, owner and other on-site handlers (if applicable)
 - Record additional dates persons were contacted
- · Air monitoring results:
 - Date(s), time(s) and location(s) of sensory irritation or air sample measurement with the direct read detection device,
 - Handler name and task/activity
 - Air concentration measurement with direct read detection device (if applicable)
- Resulting action/comments (e.g., cease operations, continue operations with airpurifying respirators, implement emergency response plan).
- · Water-run application monitoring:
 - Record monitoring date(s) and time(s)
 - > Name of person(s) monitoring
 - > Record observations:
 - > Is the equipment functioning properly,
 - > Description of corrective action (if applicable), and
 - > Other comments
- Fumigant Treated Area and Buffer Zone Signs:
 - Dates of posting and removal.
- Any deviations from the FMP (e.g., changes in emergency response actions, changes in handler information, changes in handlers responsible for completing emergency tasks).

Record-Keeping Procedures

The owner of the application block, as well as the certified applicator supervising the application, must keep a signed copy of the Post-Application Summary for 2 years from the date of application.

Product Instructions

Mycorrhizae: There are occasions when Metam CLR 42% is known to temporarily reduce mycorrhizae in agricultural soils. For those crops that are mycorrhizae dependent and planted into Metam CLR 42% treated soils, it is necessary to practice a good fertilizer program until the mycorrhizae repopulate the treated area.

Product Information

Metam CLR 42% is a water soluble liquid. When applied to soil, the liquid is converted into a volatile furnigant (Methylisothiocyanate, MITC). After a sufficient interval of time, the furnigant degrades/dissipates leaving the soil ready for planting.

WHEN TO USE MAXIMUM AND MINIMUM RATES

The application rate of Metam CLR 42% is dependent on the soil type to be treated and the position in the soil of the pest to be suppressed or controlled. For maximum control or suppression, an understanding of the pest, its location and its respiring state will ensure maximum performance of Metam CLR 42%. Generally, a light sandy soil requires a lower application rate than a heavier mineral soil. In addition, if the pest is in the upper portion of the soil profile (annual weeds), a lower application rate is generally required than if the pest is deeper in the soil profile and deeper penetration is desired (perennial weed seeds and nematodes). When a range of application rates is given in this label, consult your local agricultural extension service for more specific information.

Nematodes and Nutsedge: Nematode suppression is achieved when Metam CLR™ 42% converts to MITC and makes contact with active forms of the nematodes, preferably juveniles. Endo-parasites in plant residue may not be suppressed. Plant residues from previously infected crops should be completely decomposed prior to Metam CLR 42% application to ensure maximum exposure. Eggs are more difficult to suppress than juveniles, but are susceptible. Pre-irrigation has been demonstrated to stimulate egg hatch of some species and may enhance overall Metam CLR 42% performance. Nutsedge may be suppressed with Metam CLR 42% if actively growing and a high use rate is used (75 gal/acre). More often, rhizomes, roots and shoots will be controlled but the tuber will remain viable and at a later time regrow. Treatments made immediately prior to a crop planting (after the necessary waiting period) will give a weed-free period for crop establishment.

USE PRECAUTIONS

Metam CLR 42% uses described on this label are intended for pre-plant soil preparation only. All plant foliage and any established plants growing on the treatment sites will be either severely damaged or destroyed. Keep the product off of any desirable turf or plants. NOTE: Metam CLR 42% will suppress and/or control only those pests in the fumigation zone at the time of treatment. Reinfestation may occur subsequent to the fumigants degradation/dissipation from the soil.

Use Restrictions

Keep people and pets out of treated areas. Do not apply within 3 feet of the drip line of desirable plants, shrubs, or trees. Keep container tightly closed when not in use. Do not store near feed or food.

TREATMENT GUIDELINES

For optimum results, certain procedures should be observed at designated times in the treatment program. Described below are important guidelines for each of the four stages of the treatment process. Consult your Sales Representative for the appropriate treatment program for your particular needs.

- Pre-Application
- Field Preparation Prior to Application
- Application
- Pre-Planting After Application of Metam CLR 42%

PRE-APPLICATION

Metam CLR 42% is applied post-harvest and 14 to 21 days before a new crop is planted (see "Testing of Treated Soil Before Planting" section). In some areas, fall application is preferred as the product will degrade/dissipate over the winter that allows planting to begin as soon as favorable springtime conditions arrive.

Application Rate

Apply 37.5 to 75 gallons of product per treated acre depending on crop, target pest and soil properties (or see crop-specific directions in the Additional Information section of this label). Some of the soil properties to consider when determining the application rate include soil texture, percent organic matter and depth of soil to be treated.

Target Pest and Depth of Treatment

When application rates for this product are given in ranges, use the higher specified rate if pests (insects, nematodes, etc.) are present in high numbers or if the area to be treated has a history of pest problems. Consult with your State nematologist, entomologist and plant pathologist to determine if crop rotation is more feasible or desirable than fumigation. NOTE: This product will only suppress or control pests that are in the fumigated zone at time of treatment. For control of weeds and fungi which cause seed or seedling diseases, treatment of only the top 2 to 4 inches of soil may be required (see application specific requirements in the Good Agricultural Practices section of this label). Treatment depths greater than 4 inches may be required for control of nematodes and fungi which occur throughout the rhizosphere. The required application within the specified rate range should be increased proportionately up to the specified maximum rate with the depth of the treatment required. Always choose the appropriate application method to evenly distribute this product throughout the soil to the required treatment depth.

Soil Characteristics

Soil properties to consider when determining the application rate of this product include the depth of soil to be treated, soil texture, and percent organic matter. Due to the absorbing effect of humus, soils with high levels of organic matter under the surface require higher specified rates. For example, muck soil may require twice the rate (not exceeding the specified maximum use rate) that would be used in mineral soils. Application rates will also vary with soil texture. For example, heavy clay soils require a higher specified rate than light sandy soils.

Phytotoxicity

Metam CLR 42% is phytotoxic. Protect valuable, non-target plants by stopping soil applications of this product at least three feet short of the drip line of trees, shrubs and other desirable plants. For sprinkler application, crop injury and lack of effectiveness can result from non-uniform distribution of the treated water.

APPLICATION OF METAM CLR 42%

Apply according to the methods and rates outlined below under the section "Uses, Rates and Application Methods."

Use of Diluted Metam CLR 42%

Do not store the diluted Product. Do not allow the diluted solution to stand overnight. Use the diluted solution promptly after mixing with water. Flush all equipment with water after each day's use; disassemble valves and clean carefully. All rinsate should be properly applied to the field.

Application in Tank Mix with Liquid Fertilizer

Metam CLR 42% may be injected in a mixture with liquid fertilizers, however, a dual injection system is preferred. Since the composition of liquid fertilizers vary considerably, the physical compatibility of each Metam CLR 42% fertilizer tank mix should be checked by using the following procedure:

Mix a small quantity of Metam CLR 42% and liquid fertilizer in the same ratio as they will be applied to the field e.g., if 37.5 gallons of Metam CLR 42% and 37.5 gallons of liquid fertilizer are to be applied per treated acre, then the mixture should be mixed in a 37.5:37.5 or 1:1 ratio. Mix in a glass container. Mixing should be done outdoors and out of direct sunlight. Agitate the liquids to attain a complete uniform mixture. If A UNIFORM MIX CANNOT BE MADE, THE MIXTURE SHOULD NOT BE USED! If the mixture remains uniform for 30 minutes without agitation, the combination may be used. Should the mixture separate after 30 minutes but is readily remixed with agitation, the mixture can be used if adequate agitation is maintained in the tank.

DO NOT PLACE CAPS ON MIX JAR AS INCOMPATIBLE MIXES MAY EVOLVE HYDROGEN SULFIDE GAS. USE PROMPTLY AFTER MIXING WITH WATER OR FERTILIZER. DO NOT ALLOW THE SOLUTION TO STAND. FLUSH ALL EQUIPMENT WITH WATER AFTER EACH DAY'S USE. DISASSEMBLE VALVES AND CLEAN CAREFULLY.

CHEMIGATION OF METAM CLR 42%

When applying by chemigation methods, the following directions or warnings must be observed:

Apply this product only through sprinkler including center pivot, lateral move, end tow, side (wheel) roll, 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 non-uniform distribution of treated water. If you have questions about calibration, you should contact your State Extension Service Specialists, equipment manufacturers or other experts. Do not connect an irrigation system used for pesticide application to a public water system unless prescribed safety devices for public water systems stated on the pesticide label 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.

Chemigation Using a Public Water System

NOTE: Taminco US LLC does not encourage connection of chemigation systems to public water systems. The following information is provided for users who have evaluated alternative application and water source options before choosing to make such a connection.

OBSERVE THE FOLLOWING RESTRICTIONS IF YOUR CHEMIGATION SYSTEM IS CONNECTED TO A PUBLIC WATER SYSTEM: Public water system is defined as 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 must contain a functional, reduced pressure zone (RPZ), backflow preventer or the functional equivalents in the upstream water supply line from the 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 top of overflow rim of the reservoir tank 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 toward the injection pump.

Sprinkler & Drip Chemigation Systems

See "Field Application Where Entire Area is Being Treated" under Use, Rates and Application Methods section of this label.

PRE-PLANTING AFTER APPLICATION OF METAM CLR 42%

Effects of Rain

If rain occurs within 24 hours after a Metam CLR 42% application, lack of control at and near the soil surface may occur.

Recontamination

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

Days to Cultivating or Planting After Application

Because Metam CLR 42% is harmful to germinating seeds and living plants, an appropriate interval must be observed between treatments and planting. On well-drained soils which have a light to medium texture and which are not excessively wet or cold following the application, planting can begin 14 to 21 days after treatment. If soils are heavy or especially high in organic matter or if the soil remains wet and/or cold (below 60° F) following the application, a minimum interval of 21 days or greater should be observed. The interval before planting should be extended until the soil is sufficiently dry to allow for cultivation.

Cultivation of Soil Before Planting

IMPORTANT: Heavier soils including soils high in clay or organic matter should be allowed to aerate and dry thoroughly after treatment with Metam CLR 42%. During cold and/or wet weather, frequent shallow cultivation can aid dissipation of Metam CLR 42% from the treated soil.

On heavy, wet soils, light surface cultivation to break up crusting and promote drying should be done 5 to 7 days after treatment if planting is to occur within 14 to 21 days after treatment. This cultivation may be repeated as necessary.

NOTE: To avoid contaminating treated soils, care should be taken to assure that untreated soils are not mixed with treated soils.

Testing of Treated Soils Before Planting

Fields are fumigated to control soil-borne fungi, nematodes, insects, and weeds. The length of time required for fumigants to dissipate/escape from the soil before plants can safely be planted varies greatly. Typically 14 to 21 days are needed under typical conditions; however, circumstances which do not favor evaporation of the fumigant can greatly lengthen the waiting period as much as up to 30 days. The release period is short with (1) low rates of fumigants, (2) light soil, (3) high soil temperatures, (4) low soil moisture, (5) shallow application depth, and (6) repeated cultivations after fumigation. Seeded crops are less susceptible to residual soil fumigant injury than transplanted crops. In general, fumigants escape slowly from cold, wet, heavy soils.

If in doubt, perform either the lettuce seed test or the tomato transplant test as described elsewhere in this label. If germination does not occur in 1 to 3 days or if tomato plant shows signs of wilting or root burn in 2 days, the product is still available and an extended wait period must be observed.

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NOTE: When applied in the spring, allow a minimum of 14 to 21 days before planting providing no furnes are detectable. When the soil temperature is below 60°F, allow a minimum of 21 days before planting. Check for furnes and aerate as needed. Use a seedling indicator plant with a hot cap to check for activity or furnes (or follow instructions in preceding paragraph). DO NOT plant if furnes are detectable or injury to plant has occurred. Re-aerate the soil and check again. The information below describes two simple tests to assay for harmful residual soil furnigants before planting.

Lettuce Seed Test

- With a trowel, dig into the treated soil to or just below the depth of application. Remove 2 to 4 small (1 to 2 oz) soil samples, mix lightly, and immediately place a portion in an air-tight jar so that fumes will not escape. Use mason, wheat germ or similar jars with gas-tight lids.
- Sprinkle lettuce seeds on the moistened surface of the soil and recap immediately. Prepare a similar jar with untreated soil (untreated check) for comparison.
- Keep the jars at 65ºF to 85°F; do not place in direct sunlight. Direct sunlight may kill the seed by overheating. Lettuce seed will not germinate in the dark.
- 4. Inspect the jars for germination in 1 to 3 days.
- The soil is safe for planting if seeds in the treated jar germinate the same as seeds in the untreated jar.

IMPORTANT: Be sure (1) to sample the field properly in several areas, particularly low, wet areas; (2) that the lids are air tight and have no grit under the seal; and (3) that the jars are placed in indirect sunlight.

Tomato Transplant Test

Transplant 5 to 10 succulent, fast-growing tomato seedlings into fumigated beds approximately 4 to 6 inches deep. Do the same in a non-fumigated area. If there is variation in the field, plant into the heaviest, wettest soil. Inspect the seedlings in 2 days for wilting or root burn. If plants in the fumigated zone look the same as those in the non-fumigated zone, it is safe to plant.

Which Test is Best? Both the lettuce seed and tomato transplant tests can serve the purpose. The response of tomato seedlings varies somewhat depending on how succulent they are, the relative humidity, soil moisture and temperature. Relative differences between plants in fumigated and non-fumigated areas are key to detecting low level residues. High concentrations should produce clear-cut symptoms. Lettuce seed tested in jars are not subjected to the variations in the field that can affect the response of tomato transplants. However, the process of collecting a soil sample allows some fumigant to escape prior to sealing the jar. In addition, excess soil moisture can inhibit normal lettuce seed germination reducing the sensitivity of the test.

USES. RATES AND APPLICATION METHODS

Field Application Where Entire Area is Being Treated

SOIL INJECTION: Apply with injectors such as shanks, blades, fertilizer wheels, plows, etc. Apply Metam CLR 42% at the rate of 37.5 to 75 gallons per treated acre (or see crop-specific directions in the "Additional Information" section of this label). Follow immediately with a roller to smooth and compact the soil surface. Light watering or tarping after rolling helps prevent fumigant escape. It may be necessary to stagger the injector placement on two or more tool bars to prevent soil build up during application.

When setting up your soil injection equipment with either spray blades, injection knives or coulters make sure they are evenly and closely placed to create an even application width and depth. To accomplish this, it may require multiple tool bars with the injection tools staggered. This will help prevent build up of trash and aid in the soil sealing. For example, apply Metam CLR 42% through injectors placed 4 inches below the soil surface and 5 inches apart.

SOIL COVERING: Metam CLR 42% may be applied as a broadcast application immediately in front of soil covering equipment such as bed shapers, rotary tillers, discs, etc. to a minimum depth of 6 inches using a single pass to incorporate. Use 37.5 to 75 gallons of Metam CLR 42% per treated acre (or see crop-specific directions in the "Additional Information" section of this label) followed immediately by a roller/packer to smooth and compact the soil surface.

ROTARY TILLER OR POWER MULCHER: Spray Metam CLR 42% immediately in front of the tiller or mulcher, set to the depth to where control is desired. Use 37.5 to 75 gallons per treated acre (or see crop-specific directions in the Additional Information section of this label). Follow immediately with a roller, power roller or bed shaper to seal soils surface. Light watering or a tarp after rolling may be used to help prevent fumigant escape.

SPRINKLER SYSTEM: Use only those sprinkler systems which give large water droplets to prevent excessive loss. Use 37.5 to 75 gallons of Metam CLR 42% per treated acre (or see crop-specific directions in the Additional Information section of this label). Meter continuously throughout the injection period all of the Metam CLR 42% required to come in contact with the targeted pest in the treated zone. The desired depth of treatment obtained may be contingent upon soil moisture and type. Soil conditions must facilitate even moisture penetration without runoff. Flush lines following injection of Metam CLR 42% . For proper application rate and placement, consult your local Metam CLR 42% Sales Representative or County Extension Expert.

Application Over Cover Crops: Metam CLR 42% can be applied through center pivot or solid set sprinkler systems on cover crops that are living and less than approximately eight inches tall such as alfalfa, clover, and grasses such as rye, oats, wheat, and sudan. When applied on cover crops, no soil cultivation is required before the application. The terminated crop must not be used for any food or feed purposes after Metam CLR 42% has been applied.

Prevention of Treatment Runoff: To prevent runoff of the treatment during a sprinkler application, do not apply Metam CLR 42% at a rate greater than the absorption capacity of the field. Should runoff occur, isolate it from growing crops and water sources. Once collected, reapply to the treated field.

Check Flood (Basin), Furrow and Border: Meter Metam CLR 42% at a steady rate into water during irrigation. Depending on the kind of pest and the treatment depth, use 37.5 to 75 gallons per treated acre in 3 to 18 inches of water per acre. Meter Metam CLR 42% into the irrigation water at the head of the field at a point with enough turbulence to assure adequate mixing of the product in the water. IMPORTANT: Prior to starting the application, always inspect ditches and border areas to ensure containment of the irrigation waters. Damage to bordering crops will occur if leaks develop. Apply only into field head ditch. DO NOT APPLY INTO ANY LATERAL DITCHES.

DRIP IRRIGATION SYSTEM: Metam CLR 42% must be applied through a drip irrigation system designed to wet the soil thoroughly in the area being treated. Meter 37.5 to 75 gallons of Metam CLR 42% per treated acre (or see crop-specific directions in the Additional Information section of this label) into the drip system during the entire irrigation period. Flush irrigation system with adequate water after completion of application.

IMPORTANT: WEED ELIMINATION WILL NOT BE SATISFACTORY IF TOO MUCH WATER IS APPLIED. AN ADEQUATE CONCENTRATION OF METAM CLR 42% MUST BE PRESENT AT THE TIME OF WEED SEED GERMINATION IN ORDER TO BE EFFECTIVE.

NOTE: If Metam CLR 42% is applied to established plant beds under plastic tarps to terminate growth of a previous crop and to fumigate the bed in preparation of planting a subsequent crop, the terminated crop must not be used for any food or feed purposes after Metam CLR 42% has been applied.

PACIFIC NORTHWEST ONLY

SOIL INJECTION: Metam CLR 42% may be applied using (1) a single shank spaced no more than 6 inches apart and a spray nozzle 6 inches deep; (2) a single shank spaced no more than 6 inches apart and spray nozzle spaced 6 to 12 inches deep; (3) a single sweep spaced no more than 12 inches apart and sweep blades 12 inches wide with a spray nozzle that will give broadcast coverage from sweep tip to sweep tip; (4) a double-winged shank spaced no more than 12 inches apart and 9 inches between the wings with spray nozzles giving uniform coverage; (5) a Noble Plow Blade with spray nozzles spaced every 6 inches and set to 12 to 14 inches deep using a disc to immediately incorporate the Metam CLR 42% placed on the surface. All soil injection applications must be followed immediately with a roller/packer to smooth and compact the soil surface. Regardless of which method used, you must use 37.5 to 75 gallons of Metam CLR 42% per treated acre (or see crop-specific directions in the "Additional Information" section of this label).

When applying Metam CLR 42% with injector blades, such as Noble Plow Blades in spring, the following precautions must be followed:

- Apply all fertilizers after the Metam CLR 42% application. Wait a minimum of 7 days before making the fertilizer application.
- Thoroughly aerate the soil 5 to 7 days after the Metam CLR 42% application by plowing, shallow ripping or discing, or the combination thereof, to allow the fumes to dissipate (if tarps are used, refer to the Tarp Perforation and/or Removal Section for additional guidance on timing of these activities). Do not work soil deeper than the depth of treatment.
- If soil temperatures are below 60°F, delay planting for a minimum of 21 days from the day
 of the Metam CLR 42% application regardless of any other precautions that may have
 been taken
- In conjunction with the delayed planting, set indicator plants (such as tomatoes) in various
 places in the treated field with a "hot cap" left undisturbed for a minimum of 24 hours to
 ensure all of the Metam CLR 42% has left the soil. (See "Testing of Treated Soil Before
 Planting" section.)

FIELD APPLICATION TO BEDS OR ROWS

SOIL INJECTION (Pre-formed Beds): Metam CLR 42% may be injected into pre-formed plant beds following the directions in the "Soil Injection" section above. If a wider treated band is desired, space 2 or more shanks at intervals of 5 inches to cover the desired treating width. Use thin injection shanks and inject Metam CLR 42% 4 inches deep 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. Light watering or a tarp after rolling may be used to help prevent fumigant escape. Apply at the rate of 37.5 to 75 gallons per treated acre (or see crop-specific directions in the Additional Information section of this label) (see "Method of Determining Fluid Ounces per 100 Feet of Linear Row" section). Place shanks 5 inches apart to cover the desired treating width.

SOIL INJECTION (At Bed Forming Operation): Metam CLR 42% may be injected during the bedding or row building process, or to pre-formed beds, using one of the following delivery systems: (1) single narrow knife blade (2) a series of narrow knife blades set no more than 5 inches apart, (3) a spray blade, (4) tiered shanks, (5) spray rake or (6) similar equipment that places Metam CLR 42% in contact with the pest to be controlled or suppressed. The use rate for the above operations is 37.5 to 75 gallons per treated acre (or see crop-specific directions in the Additional Information section of this label). Reduced rates will vary depending upon the actual width of the treated band desired (see "Method of Determining Fluid Ounces per 100 Feet of Linear Row" section). Apply the Metam CLR 42% at the desired depth in the soil and follow immediately with the soil capping operation, bedding process, or roller/packer to seal the fumigant into the soil.

SOIL COVERING METHOD (Bed-Over Methods): Metam CLR 42% may be sprayed in a bed wide band onto the soil immediately ahead of bed shaping equipment. Cover the Metam CLR 42% with soil to a depth of 3 to 6 inches. The soil should be rolled and compacted immediately. Apply at the rate of 37.5 to 75 gallons per acre of treated soil (or see cropspecific directions in the Additional Information section of this label) or 11 to 22 fluid ounces per 100 linear feet of row (12-inch bed). If a narrower or wider bed is to be treated, adjust the fluid ounces/100 linear feet of row to reflect the actual treated acres (see "Method of Determining Fluid Ounces per 100 Feet of Linear Row" section).

DRENCH APPLICATION ON BEDS OR ROWS: Metam CLR 42% may be applied to finished beds for control of shallow seeded weeds. Cultivate the area to be treated and pre-irrigate in accordance with Use Directions. Apply 37.5 to 75 gallons of Metam CLR 42% per treated acre (or see crop-specific directions in the Additional Information section of this label) in a band or bands in enough water to soak at least 2 inches deep (see "Method of Determining Fluid Ounces per 100 Feet of Linear Row" section). To avoid contamination by untreated soil, do not disturb the treated area.

ROTARY TILLER OR POWER MULCHER: Spray Metam CLR 42% immediately in front of the tiller or mulcher, set to the depth to where control is desired. Use 37.5 to 75 gallons per treated acre (or see crop-specific directions in the Additional Information section of this label) (see Method of Determining Fluid Ounces per 100 Feet of Linear Row section). Follow immediately with a roller, power roller or bedshaper to seal soil surface. Light watering or a tarp after rolling may be used to help prevent fumigant escape.

Method of Determining Fluid Ounces per 100 Feet of Linear Row

- 1. Determine width of treated band in feet by dividing width of band in inches by 12 (e.g.: 8 in. band = 8 in. \div 12 in/ft. = 0.666 ft)
- 2. Determine square feet in 100 linear feet of band by multiplying the width of the band by 100 (e.g.: $0.666 \, \text{ft.} \times 100 \, \text{ft.} = 66.66 \, \text{sq.} \, \text{ft.}$)
- 3. Determine the treated acres per 100 linear feet of band by dividing the square feet by 43,560 (square feet in an acre) (e.g.: 66.66 sq. ft \div 43,560 = 0.0015)
- 4. To determine the fluid ounces per 100 linear feet.
 - a) 1 gal = 128 fl. oz; 50 gals = 6400 fl. oz.; 100 gals = 12,800 fl. oz.
 - b) Multiply fluid ounces by acres. Example: 50 gals. = 6400 fl. oz. x 0.0015 = 9.6 fl. oz. per 100 linear feet row.

ADDITIONAL INFORMATION/DIRECTIONS

SEED TREATMENT: A suitable fungicide should be used to treat all crop seed being planted into the treated soil.

PEANUTS: For suppression and/or control of Cylindrocladium Black Rot (CBR) and nematodes, apply Metam CLR 42% at the rate of 7.5 gallons per treated acre (6.61 fl. oz. per 100 linear feet of row). Use with partially resistant cultivators (NC-10C or others as designated by your local Agricultural Extension Service) in cases of severe disease pressure. Plant other varieties only in cases of light CBR pressure.

Soil Preparations: Before applying Metam CLR 42%, all residues from the previous crop should be decomposed (enhance by fall discing) and plowed under in the spring with a moldboard plow. Soil incorporated pre-plant herbicides must be applied prior to the application of Metam CLR 42%.

Application: Apply 8 to 10 inches below seed placement with injector shank or coulter type applicator placed in front of a bedshaper to mark rows. Soil temperatures must be in the range of 60°F to 90°F at a 3-inch depth at time of treatment.

Tillage and Planting After Application: Do not mix untreated soil with treated soil by tillage or other cultural practices. Plant the peanuts in the center of the treated beds no earlier than 14 days following the application of Metam CLR 42%. An at-planting nematocide treatment will be necessary in fields with heavy infestations of Root Knot, ring and/or sting nematodes.

MINT (SUPPRESSION OF VERTICILLIUM WILT): When infestation is limited to small spots in a field, the spread of *Verticillium* can be reduced by treating the infected spots. Apply at the rate of up to 75 gallons of Metam CLR 42% per treated acre using injector blade or thin shank injector rig. Follow directions for "Field Application Where Entire Area Is Being Treated."

POTATOES: For suppression of potato pests such as nematodes, weed seeds and *Verticillium dahliae* (Early Maturity Disease):

For soil injection, apply a minimum of 37.5 gallons to a maximum of 75 gallons of Metam CLR 42% per treated acre following the directions for "Field Application Where Entire Area Is Treated." Metam CLR 42% may also be applied at the rate of 50 to 75 gallons per treated acre using a Noble Plow Blade set to 12 to 14 inches deep with spray nozzles spaced every 6 inches apart to give uniform coverage plus a surface application using a disc to immediately incorporate the Metam CLR 42% placed on the surface.

Early Maturity Diseases Of Potatoes In The Pacific Northwest: Apply 40 gallons Metam CLR 42% per treated acre using the soil injection method as described in the "Field Application Where Entire Area Is Being Treated" section.

TOBACCO PLANT BEDS: Fall applications are recommended whenever possible. Read and follow the use directions carefully.

DRENCH METHOD: Apply 1.875 gallons Metam CLR 42% in 150 to 200 gallons of water per 100 square yards. Application may be made with sprinklers, sprayers with nozzles or any suitable equipment. Follow directions given above for "Field Applications Where Entire Area is Being Treated" section. Do not apply more than 75 gallons of Metam CLR 42% per acre.

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CARROTS: Apply a broadcast application of 37.5 to 75 gallons per treated acre of Metam CLR 42% for the suppression of Root Knot Nematodes or 30 to 75 gallons for pre-plant suppression of soil-borne diseases.

MINT (including Peppermint and Spearmint): Apply a pre-plant broadcast application of 37.5 to 75 gallons per treated acre of Metam CLR 42% for the suppression of Root Knot Nematodes and *Verticillium dahliae*.

ONIONS: Apply a broadcast or banded application of 37.5 to 75 gallons per treated acre of Metam CLR 42% for the suppression of Root Knot Nematodes or 30 to 75 gallons for suppression of soil-borne diseases.

POTATOES: Apply a broadcast sprinkler application of 37.5 to 75 gallons per treated acre of Metam CLR 42% for the suppression of Root Knot Nematodes and *Verticillium dahliae*. Apply a broadcast soil application of 37.5 to 75 gallons per treated acre Metam CLR 42% for the suppression of *Verticillium dahliae*.

SUGAR BEETS: Apply a broadcast or a banded application of 37.5 to 75 gallons per treated acre of Metam CLR 42% for the suppression of soil-borne disease. A Fall application of soil herbicide followed by or tank mixed with Metam CLR 42% in a broadcast application or band application will enhance the overall weed control.

ORCHARD RE-PLANT: Apply a broadcast application rate of 56 to 75 gallons per treated acre of Metam CLR 42% in a minimum of 1-acre inch of water through a sprinkler system, or a row treatment of 56 to 75 gallons broadcast equivalent to the future tree row using a weed sprayer (see Terms used in this labeling section) by applying multiple passes of Metam CLR 42% while the sprinklers are running until the desired rate has been applied for the treatment of specific orchard replant disease. Trees should not be replanted into the replant site for at least 21 days after the application is complete. Check for fumes in the soil before planting. Metam CLR 42% may also be applied at the rate of 50 to 75 gallons per treated acre using a Noble Plow Blade set 12 to 14 inches deep with spray nozzles spaced every 6 inches apart to give uniform coverage with a surface application using a disc to immediately incorporate the Metam CLR 42% placed on the surface.

WHEAT AND BARLEY: Apply Metam CLR 42% at a rate of 1.88 to 7.5 gallons per treated acre 14 to 21 days prior to planting for the suppression of certain early season soil fungi which cause root diseases of small grains. Metam CLR 42% may be diluted with water or, if compatible, non-acidic liquid fertilizers (see "Application in Tank Mix with Liquid Fertilizer" section) and injected into moist soil 5 to 8 inches before planting.

IN THE PACIFIC NORTHWEST, IF THE FIELD HISTORY OR SOIL SAMPLING SHOWS HIGH NEMATODE POPULATIONS, FUMIGATION WITH METAM CLR 42% AND A NEMATODE SPECIFIC FUMIGANT SHOULD BE USED. CONSULT YOUR LOCAL TAMINCO US LLC REPRESENTATIVE FOR ADDITIONAL INFORMATION.

STORAGE AND DISPOSAL

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

Pesticide Storage:

Store in a dry locked place out of reach of children. Keep container closed when not in use. Best stored above $32^{\circ}F$ ($0^{\circ}C$). Do not store below $32^{\circ}F$. However, if stored below this temperature ensure that the product is thawed and mixed before use. Product crystallizes at lower temperatures. Warm or store at higher temperatures and mix to re-dissolve crystals and assure uniformity before 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 instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional office for guidance.

Container Handling (Nonrefillable Containers)

Do not reuse or refill this container. Then offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ 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 mix tank. Repeat this procedure two more times.

Container Handling (Refillable Containers)

Refill this container with Metam CLR 42% 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 pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

NOTICE – READ CAREFULLY

Terms of Sale or Use: On purchase of this product, buyer and user agree to the following conditions:

- Warranty: To the extent consistent with applicable law, the manufacturer neither makes nor intends, nor does it authorize any agent or representative, to make any other warranties, express or implied, and it expressly excludes and disclaims all implied warranties of merchantability of fitness for a particular purpose, or any warranty of quality or performance.
- Directions: Follow directions carefully. Timing and method of application, weather and crop conditions, mixture with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the seller and to the extent consistent with applicable law are assumed by the buyer at his own risk.
- Use of Product: Taminco US LLC's directions for the use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer, no guarantee, expressed or implied, is made to the effect of such or the results to be obtained if not used in accordance with directions or established safe practice.
- Damages: To the extent consistent with applicable law, buyer's or user's exclusive remedy for damages for breach of warranty or negligence shall be limited to direct damages not exceeding the purchase price paid and shall not include incidental or consequential damages.

NET CONTENTS:

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Manufactured for:

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