

Basamid G

Registrant: Amvac Chemical Corporation

GENERAL

EPA Registration Number:	5481-9027	Signal Word:	DANGER/POISON
CA Registration Number:	5481-9027-ZA		
Active Ingredient:	99 - Dazomet	Application Methods:	Ground
Label Version:	13896-20170427	Mode of Action:	WSSA 17
Physical State:	Dry	Toxic To:	Aquatic Invertebrates, Fish
Product Type:	Bactericide, Fungicide, Herbicide, Nematicide	Rainfastness:	
Formulation Type:	Granules		

ADDITIONAL INFORMATION

Federally Restricted:	Yes		
Organic Certifications:	None	Other Certifications:	None
Posting Required:	Yes	Closed Mixing System Required:	All applications in All States/Provinces: Not required
Oral Notification Required:	Yes	Avoid Grazing:	Yes

CALIFORNIA

Registration #:	5481-9027-ZA	CA Restricted:	Yes
CA NOI Required:	Yes		

REGISTERED FOR USE IN**PACKAGE TYPES**

50 LB Package(s)

****Specific Notices will not be shown until a pest is selected.**

SAFETY

PPE Information:

Personal Protective Equipment (PPE) Some materials that are chemical-resistant to this product are butyl rubber 14 mils, nitrile rubber >= 14 mils, neoprene rubber >= 14 mils, natural rubber >= 14 mils, polyethylene, polyvinyl chloride (PVC) >= 14 mils, Viton(R) >= 14 mils. All handlers must wear at a minimum: - coveralls over long-sleeved shirt and long pants when in the treated application block, - chemical-resistant gloves when handling the product, - shoes plus socks, and - protective eyewear (goggles, face shield, safety glasses). In addition, 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 facepiece 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). When mixing, loading or cleaning equipment wear a chemical-resistant apron. For overhead exposure wear chemical-resistant headgear. Cartridges or canisters must be replaced when odor or sensory irritation from this product becomes apparent during use, if the measured concentration of Methyl Isothiocyanate (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.

Re-Entry PPE Information:

For the 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 label is listed in the Personal Protective Equipment (PPE) section of this label.

Transport Information:

DOT UN number UN3077 UN proper shipping name Environmentally hazardous substances, solid, n.o.s. (Dazomet) Class 9 Transport hazard class(es) Subsidiary risk - Label(s) 9 Packing group III Marine pollutant No Environmental hazards Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Special provisions 8, 146, 335, A112, B54, IB8, IP3, N20, T1, TP33 Packaging exceptions 155 Packaging non bulk 213 Packaging bulk 240 IATA UN number UN3077 UN proper shipping name Environmentally hazardous substance, solid, n.o.s. (Dazomet) Class 9 Transport hazard class(es) Subsidiary risk - Packing group III Environmental hazards Yes, when transported over large bodies of water ERG Code 9L Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Passenger and cargo Allowed with restrictions. aircraft Other information Cargo aircraft only Allowed with restrictions. Read safety instructions, SDS and emergency procedures before handling. IMDG UN number UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Dazomet), MARINE POLLUTANT UN proper shipping name Class 9 Transport hazard class(es) Subsidiary risk - Packing group III Marine pollutant Yes Environmental hazards EmS F-A, S-F Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable. DOT; IATA; IMDG Marine pollutant General information: IMDG Regulated Marine Pollutant. This product is not regulated when shipped by highway, rail, or air in non-bulk packaging (maximum capacity of 450 L (119 gallons) or less. When shipped by vessel or in bulk packaging this product is regulated according to the data shown.

Response Number:

800-424-9300

Medical Number:

888-681-4261

SDS Hazard ID Signal Word:

Warning

GENERAL NOTICE 1

Environmental Hazards This pesticide is toxic to fish and aquatic invertebrates. 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 water or rinsate. Dazomet has certain properties and characteristics in common with chemicals that have been detected in groundwater (dazomet is 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. **Endangered Species Concerns** The use of any pesticide in a manner that may kill or otherwise harm an endangered species or adversely modify their habitat is a violation of federal law.

GENERAL NOTICE 2

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. 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. Refer to supplemental labeling under "Agricultural Use Requirements" in this section for information about this standard. All applicable directions, restrictions, precautions and WARRANTY are to be followed. This labeling must be in the user's possession during application.

GENERAL NOTICE 3

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 or greenhouse (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 on Day 1 (see the Water Requirements section). **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 co-pilot, 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.

GENERAL NOTICE 4

Use Method Restrictions The use of this product is restricted to the methods described in this label. 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. Entry Restricted Period and Notification Entry Restrictions Entry (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 application is complete. NOTES: - 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 cross bones symbol and state: (1) "DANGER/ PELIGRO," (2) "Area under fumigation, DO NOT ENTER/ NO ENTRE," (3) "Dazomet Fumigant in USE," (4) the date and time of fumigation (5) the date and time entry restricted period is over, (6) "Basamid G", and (7) Name, address, and telephone number of the certified applicator in charge of 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 the 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. PPE FOR ENTRY DURING THE ENTRY-RESTRICTED PERIOD: PPE for handler entry that is permitted by the WPS is listed in the Hazards to Humans and Domestic Animals section of this labeling.

GENERAL NOTICE 5

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 WPS (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 WPS (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). 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 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 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 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 are: - 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.

GENERAL NOTICE 6

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: At least one handler must have the appropriate air-purifying respirator and cartridges available, and they must be fit-tested, trained, and medically examined. 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 air-purifying respirator and cartridges available (see Respirator Fit Testing, Medical Qualification, and Training section for additional requirements). Exception: After the application is complete, 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 that 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.

GENERAL NOTICE 7

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 or where samples were greater or equal to 6000 ppb (6 ppm). - 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, Sensydine) 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 samples were greater or equal to 6000 ppb (6 ppm). - Handlers can resume work activities if all of the following conditions exist provided that the appropriate airpurifying respirator is worn or where samples were greater or equal to 6000 ppb (6 ppm): -- 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 respirator, and -- filter cartridges 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 or equal to 6,000 ppb (6 ppm).

GENERAL NOTICE 8

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 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 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. - 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.

GENERAL NOTICE 9

Mandatory Good Agricultural Practices (GAPs) The following GAPs must be followed during all fumigant applications. Weather Conditions - To determine if unfavorable weather conditions exist or are predicted (see Identifying Unfavorable Weather Conditions) 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 applications 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 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.

GENERAL NOTICE 10

Application Restrictions - Do not use dazomet when the soil temperature is over 90 degrees F, 2 inches deep. The soil temperature must be above 43(degrees)F (6(degrees)C) and remain at least this high during the entire fumigation period. Application in the field during periods of possible frost must be avoided. If the soil temperature falls below 43(degrees)F (6(degrees)C), the gas may sink into deeper soil layers when there is danger of frost which can cause crop injury later if the soil is not aerated deeply enough. The best conditions prevail at soil temperatures of 54-69(degrees)F (12-20 - C). Do not apply Basamid G if the soil temperature exceeds 90(degrees)F (32(degrees)C), 2 inches deep or the ambient air temperature exceeds 103(degrees)F (39(degrees)C). If the soil temperature is too high, the gases escape too rapidly from the soil, resulting in incomplete fumigation. - Do not apply within 3-4 feet of growing plants or closer than the drip line of trees and large shrubs. If slopes are treated with this product, take precautions to prevent the chemical from washing downward to growing plants. - The area intended for treatment should be in seedbed condition with a fine tilth, free of clods. Do not apply dazomet to dry or improperly tilled soil. Repeated cultivation before treating will improve control of perennial weeds. Ditching around the site will prevent weed seeds, nematodes, and fungi from washing into the treated area and contaminating it. - After application, the soil must be kept uniformly moist for 5-7 days. As soon as possible after incorporation, the soil must be sealed to retain the concentration of gases in the soil which can be achieved by: -- Compacting the soil surface after incorporation with a roller attached behind the incorporation implement. -- Moistening the surface after incorporation so a crust forms. -- Lightly moistening the soil on the third and fourth days after treatment in case the weather dries out the soil surface to avoid surface cracks. -- In difficult situations best results may be obtained by tarping the treated area. - Do not apply dazomet if ambient air temperature exceeds 103 degrees F. - Do not store dazomet in an open spreader overnight. - Do not apply dazomet when wind may cause granules to drift from target area. - Do not apply dazomet through any type of irrigation equipment. - Before using dazomet be aware that the three most critical factors for a successful fumigation program are: soil preparation, soil temperature, and soil moisture. - Do not store this product overnight in an open container. - Do not apply Basamid G to growing crops - it is for use as a soil treatment only. - Do not apply or mix with any other material.

GENERAL NOTICE 11

Water Requirements For optimal effect, the soil to be fumigated must have sufficient moisture for good plant growth (at least 50% available water capacity) for 5-14 days (depending on temperature) before the treatment. - Prior to application, soil moisture should be at 60-80% field capacity for sand, 50% for loam, and 30-40% for clay soils. For both water incorporated and mechanically incorporated applications: For Water Incorporated Applications Apply Basamid G to the soil After spreading, apply overhead irrigation to activate Basamid G and seal the soil surface. Day 1: Irrigate sufficiently to move the water front 4 to 6 inches into the soil profile. Depending on soil type, structure, and weather conditions, apply 0.75 to 1 inches of water. Repeat the application, as necessary, to ensure the soil profile is thoroughly wetted and all granules are activated. Day 2: Continue irrigation to ensure the surface area retains sealed but not waterlogged. Typically, half the amount of water applied on Day 1 should be sufficient. Make multiple applications, depending on local conditions, to ensure that no gases escape as they move up through the soil. Day 3: Continue irrigations to ensure the surface area does not dry out and no cracks appear in the treated area. Typically half the amount of water applied on Day 2. Make multiple applications, depending on local conditions, to ensure that no gases escape as they move up through the soil. Day 4: Irrigate with a minimal amount of water to keep the surface sealed and free of cracks. Typically, half the amount of water applied on Day 3. Make multiple applications, depending on local conditions. For Mechanically Incorporated Applications Immediately after spreading, incorporate the granules into the soil as uniformly as possible to the desired depth. Seal the soil surface either by rolling or smoothing as with bed shaping equipment. The granules must be activated by keeping the soil thoroughly moist (but not waterlogged) for 72 hours.

GENERAL NOTICE 12

Maximum Application Rates for Pre-Plant Soil Fumigation Physical/Mechanical Incorporation Maximum physical incorporated rate for all uses, except for golf course renovation, is 421 lbs. of product per treated acre. The maximum rate for golf course fairways, with a physical incorporated application method, is 525 lbs. of product per treated acre. Water Incorporation The maximum rate for water incorporated applications is 262 lbs. of product per treated acre. Greenhouse The maximum rate for all greenhouse applications is 262 lbs. of product per treated acre. For greenhouse applications The maximum application block size that can be treated is 50,000 square feet. During the application keep all doors, vents, and windows to the outside open, and keep all fans or mechanical ventilation systems running within the greenhouse. For all use sites except interplanting (tree replant hole application) Application with handheld equipment is prohibited.

GENERAL NOTICE 13

Calculating the Broadcast Equivalent Rate Figure 1, Bedded/Strip Application (1 acre application block) (page 12) To calculate the broadcast equivalent rate for bedded or strip applications the following information is needed: - Pounds of product per treated acre - Strip or bed bottom width (inches) - Center-to-center row spacing (inches) - Application block size (acres) Pounds 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 black areas in Figure 1 (e.g., black areas are 0.6 acres 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: broadcast equivalent rate (pounds product/acre) = strip or bed bottom width (inches)/ center-to-center row spacing (inches) X pounds product/treated acre applied in the strip or bed - 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 2, Center Row Spacing (page 13) 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 - 200 pounds 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 broadcast equivalent rate (pounds product/acre) = strip or bed bottom width (inches)/ center-to-center row spacing (inches) X area of strip or bed + row spacing/ application block size x pounds product/treated acre applied in the bed = 30 inch width beds/ 60 inch row spacing x 9.75 acres/ 10 acres X 200 pounds product/treated acre= 9.75 lbs. product/acre The application rates in Table 1 are based on an incorporation depth of 6 inches. Additional Basamid G is needed when the infestation extends to greater depths. For specific use recommendations, see SITE-SPECIFIC INFORMATION.

GENERAL NOTICE 14

Table 1. Basamid G Application Rates (Do not exceed the maximum application rates identified in the Maximum Application Rates for Pre-Plant Soil Fumigation section of this label)(See page 14 of the Master Label). Summary of Uses Basamid G soil fumigant is for the pre-planting control of listed weeds, nematodes, and soil diseases of the following sites: - Ornamental Sites - Flowers, bulbs, bedding plants, ground cover, seed and propagating beds - Field Nurseries - Forest, nonbearing and ornamental trees, shrubs, and Christmas tree seedlings - Turf Sites - Establishment or renovation of existing golf courses (fairways, tees, greens), athletic fields, sod farms, and lawns - Greenhouses and Hoop Houses - Soil Media - Potting soil, soil heaps, and compost piles - Nonbearing Crops. Weeds controlled When properly applied, this product will eliminate listed weeds: crabgrass, henbit, pigweed, foxtail, purslane, mustard, witchweed, annual bluegrass, bermudagrass and many other plants and weed seeds. For a complete list see Table 5 (page 31) - Germinating Seeds of Annual and Perennial Weeds, Table 6 (page 32) - Root Propagated Weeds, and Table 7 (page 32) - Parasitic weeds. Nematodes controlled This product will control root knot, stubby root, reinform, ectoparasitic root, (i.e., Meloidogyne sp., Pratylenchus sp., Hoplolaimus sp., Tylenchorrhynchus sp., Rotylenchulus sp., Paratylenchus sp., Xiphinema sp., Tylenchus sp.) and listed nematodes. For a complete list see Table 8 - Plant-parasitic nematodes. Diseases controlled This product will control root rots, damping off, and wilt diseases caused by Aphanomyces sp., Fusarium sp., Phytophthora cactorum, Pythium sp., Rhizoctonia sp., Thielaviopsis basicola, Verticillium albo-atrum, and soilborne Stromatinia gladioli and corm rot of gladiolus caused by Fusarium sp. For a complete list see Table 9 - Soil-borne Fungi and Table 10 - Soil-borne Bacteria.

GENERAL NOTICE 15

APPLICATION INSTRUCTIONS Preparation Prior to Application 1) Basamid G can be applied to tilled and non-tilled sites: a. Tilled Sites: The area intended for treatment should be in seedbed condition with a fine tilth, free of clods. Repeated cultivation before treating will improve control of perennial weeds. b. Non-Tilled Sites: Remove existing vegetation with a mower or other suitable equipment. The vegetation must be cut to the lowest height possible, 1/8-inch or less. Aerate and/or verticut to improve water penetration and remove surface debris. 2) In tilled sites, weed seeds or plant material bearing nematodes must be mechanically hoed or plowed into the soil 1-2 weeks before fumigating so that the emerging weeds and nematodes are subject to fumigation. 3) If root-knot nematodes must be controlled, delay application at least 2-3 weeks, until the root-knot infested root residues have begun to decompose and the remaining plant refuse has been tilled into the soil. 4) Do not apply farmyard manure, peat, other organic fertilizers, burnt lime, or lime nitrogen just before, along with, or just after this product. 5) Converting the active ingredient into the gaseous phase depends primarily on soil moisture and temperature (see Application Restrictions and Water Requirements in the GAPs section of this label). Methods of Application Apply Basamid G soil fumigant to properly prepared soils using shanks, drop-type fertilizer spreaders, or other suitable non-handheld equipment for all applications except interplanting (tree replant holes). Handheld equipment (scoops and shakers) is allowed for tree replant hole applications only. To prevent Basamid G from sticking to the tires of the application equipment, the surface of the soil must be dry to the touch at the time of application. Either incorporate the material physically into the soil to the desired depth, or incorporate the material into the soil with water. If physically incorporated, the soil surface must be sealed as described in the Preparation Prior to Application section.

USE RESTRICTIONS Do not store Basamid G overnight in an uncovered container. Do not apply Basamid G when wind may cause granules to drift from target area. Do not make more than 245 tree replant hole applications per day. Physical/Mechanical Incorporation for Combined Disease, Nematode, and Weed Control 1) Apply Basamid G to the soil. 2) After applying, incorporate the granules into the soil as uniformly as possible to the desired depth. This is best accomplished with an L-shaped tine rototiller or spading machine. 3) Following incorporation, seal the soil surface by smoothing or rolling to impede fumigant escape. 4) The treatment is more successful if the incorporation and sealing is followed by thoroughly wetting the soil, keeping it moist (but not waterlogged) for 72 hours. This can be accomplished either with overhead or drip irrigation. Alternatively, the soil can be covered with a tarp (e.g. barrier film) (such as polyethylene sheeting or other material) to retain fumigant vapors. Drip irrigation is needed to apply water needed to activate the granules that are immediately covered with a tarp after application and incorporation (see section immediately below). Water Incorporation with Drip Irrigation for Disease and Weed Control 1) Drip irrigation tape or tubing can be applied prior to, or following, the Basamid G application. 2) Apply Basamid G to the soil. 3) After applying, cover with tarp (e.g., plastic mulch). 4) Activate the Basamid G using drip irrigation, wetting entirely to the margins of the treated area (such as bed shoulders). 5) The soil must be kept moist (but not waterlogged) for 72 hours. Water Incorporation with Overhead Irrigation for Disease and Weed Control 1) Apply Basamid G to the soil. 2) After spreading, apply overhead irrigation to activate the Basamid G and seal the soil surface. a. Day 1: Irrigate sufficiently to move the water front 4 to 6 inches into the soil profile. Depending on soil type, structure, and weather conditions, approximately 0.75 to 1 inch of water. Repeat the application, as necessary, to ensure the soil profile is thoroughly wetted and all granules are activated. This liquid phase will ensure contact of the soil particles with Basamid G throughout the incorporated profile. Contact with the soil particles is a critical factor to the success of Basamid G. b. Day 2: Continue irrigations to ensure that the surface area remains sealed, but not waterlogged. Typically, half the amount of water applied on Day 1 should be sufficient. Make multiple applications, depending on local conditions, to ensure that no gases escape as they move up through the soil. c. Day 3: Continue irrigations to ensure that the surface area does not dry out and no cracks appear in the treated area. Typically, half the amount of water applied on Day 2. Multiple applications, depending on local conditions, may be necessary to reduce gas escape from the soil. d. Day 4: Irrigate with a minimal amount of water to keep the surface sealed and free of cracks. Typically, half the amount of water applied on Day 3. Make multiple applications, depending on local conditions

GENERAL NOTICE 16

Preparation Prior to Planting Before seeding, planting, or transplanting, all the gaseous residues must be gone from the soil. The time between treatment and replanting depends on soil temperature, structure, moisture, and the method of sealing. Do not plant any crop until all fumigant odors have dissipated from the soil and can no longer be detected. Follow the instructions below to allow any remaining fumigant gases to escape from treated soil before planting. As an added precaution, conduct a cress or lettuce seed germination test as follows: Safety Germination Test 1) Take soil samples at several places in the treated area. Scrape the surface soil aside and quickly fill a sample into a clear (transparent) glass jar. Do not take soil from below the depth of incorporation. Depending on the size of the jar used, either combine samples into a single jar or fill each sample into a separate jar. Fill the jars about halfway and seal them. As a control, fill an additional jar with untreated soil and seal. 2) Sow a small amount of cress (*Lipidium sativum*) or lettuce (*Lactuca sativa*) seeds directly onto the soil and seal the jars. Use the same amount of seed in each jar. The soil should be sufficiently moist to assure quick germination. 3) Place the jars in a room with sufficient temperature to allow for speedy germination. Check for germination after 2 to 3 days. If the seeds have germinated in the jar with the untreated soil but not in the jars with the treated soil, MITC has not yet completely degraded and the treated soil should not be planted. In this case, repeat the germination test after an additional 1-3 days aeration of the treated area. If seeds in all jars germinate normally, and begin to develop normal roots, it is safe to plant the crop. Soils without Tarps (e.g. Plastic Covers or Mulch) Aerate the soil with hand implements, rakes, or power tillers above the depth of original incorporation before planting. The soil must not be loosened to the original depth of incorporation as non-fumigated soil may be transported up from lower layers. A new infestation can spread very quickly in decontaminated soil and jeopardize the success of the treatment. Avoid planting into treated soil within 1 week after Basamid G application to allow fumigation to occur and MITC gas to dissipate to levels safe for planting. Table 2 - Planting Directions: Soil Temperature and Waiting Period provides recommended waiting periods between treatment and planting based on soil temperature. The waiting period can be shortened by repeated hoeing, digging, or other tillage of the soil to speed aeration. Longer waiting periods may be required in soils with high concentrations of organic matter. Fall soil treatment is recommended if early spring planting is necessary. Table 2. Planting Directions: Soil Temperature and Waiting Period without Tarps (See page 17 of the Master Label) Soils Covered with Tarps Transplants, bulbs, or seeds can be planted directly into a previously treated bed if certain precautions are followed. The plastic sheeting used to tarp a treated area can also function as a mulch and be left in place in the field. For this application, observe the following steps: 1) A waiting period (see Table 3 - Planting Directions: Soil Temperature and Waiting Period with Tarps) is appropriate between application and planting. 2) Cut holes in the plastic 4 to 7 days before the intended planting date. Cultivation to aerate treated soil cannot be performed before planting as in situations where plastic mulch is not present. 3) Perform Safety Germination Test. 4) Proceed with planting if the seeds germinate normally as described in the Safety Germination Test. Table 3. Planting Directions: Soil Temperature and Waiting Period with Tarps Soil Temperature at 4" Depth Recommended Waiting Period from Treatment to Planting Above 75(degrees)F (24(degrees)C) 14 days 65-75(degrees)F (18-24(degrees)C) 21 days 55-65(degrees)F (13-18(degrees)C) 30 days

GENERAL NOTICE 17

PRODUCT RESTRICTIONS AND LIMITATIONS Maximum seasonal use rate: Refer to Table 1 - Basamid G Application Rates for maximum rates of Basamid G soil fumigant per acre, per season. 1) Preharvest Interval (PHI): Refer to Preparation Prior to Planting. 2) Entry Restricted Period: Refer to Agricultural Use Requirements. 3) Crop Rotation Restriction: If all label procedures are followed correctly and all gases have escaped, no crop rotation restrictions apply. 4) This product cannot be used to formulate or reformulate any other pesticide product. 5) DO NOT use Basamid G when soil temperatures 4" deep are below 43(degrees)F (6(degrees)C) or above 90(Degrees)F (32(degrees)C). 6) DO NOT plant any crop until all fumigant gases have dissipated from the soil. A Safety Germination Test is recommended. 7) DO NOT apply within 3-4 feet of growing plants or closer than the drip line of trees and large shrubs.

GENERAL NOTICE 18

Interplanting For soil treatment prior to interplanting in existing orchards, berry fields, and similar areas, thoroughly till a spot large enough to accommodate the root system of the plant. Root systems of nearby existing plants must be completely severed to avoid contact with the treated soil. Soil may be treated in place based on the area and depth tilled using the instructions in Method of Application - Physical Incorporation for Combined Disease, Nematode, and Weed Control. The soil may be removed and treated in a pile (see Soil Media). Tarping of the soil surface may provide better results under some conditions. Do not harvest produce within one year of application. Buffer Zone Requirements A buffer zone must be established for every fumigant application. The following describes the general buffer zone requirements: - 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 with any other dazomet (or other MITC generating pesticide) buffer zone(s). - To reduce the potential for off-site movement from multiple fumigated fields, buffer zones from multiple dazomet (or other MITC generating pesticide) 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. 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: 1. The owner of the application block can ensure that the buffer zone will not overlap with a dazomet (or other MITC generating pesticide) buffer zone from any other property owners, except as provided in the Buffer Zone Proximity section, and 2. 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 3. 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.

GENERAL NOTICE 19

Buffer Zone Distances Buffer zone distances must be calculated using the application rate and the size of the application block. Buffer zone distances - 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 1/2 mile (2,640 ft), then the application is prohibited. - Tables 1-4 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: Buffer zone distances (in feet) for mechanically incorporated dazomet soil applications except golf course fairways and greenhouses (Page 21) Table 2: Buffer zone distances (in feet) for water incorporated (surface) dazomet soil applications except greenhouses (page 22) Table 3: Buffer zone distances (in feet) for dazomet greenhouse applications (Page 22) Table 4: Buffer zone distances (in feet) for mechanically incorporated dazomet applications to golf course fairways* (page 23) *This buffer table may only be used if the length of the application area is twice the distance of the width (i.e., the length is 80 feet and the width is no greater than 40 feet). If the application area does not meet these requirements, use the buffer zone distances in Table 1.

GENERAL NOTICE 20

Buffer Zone Credits The buffer zone distances for Basamid G 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. - 10% reduction in buffer zone distance, IF the organic content of the soil in the application block is $\geq 1\%$ - 2%; a 20% reduction in 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(degrees)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 Calculation if a Credit(s) is Applicable 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 feet - (50 feet x 10%) = 45 feet. If the buffer zones 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, --- Dazomet Basamid G 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.

GENERAL NOTICE 21

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 fumigant 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 fumigant 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 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 beginning 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 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.

GENERAL NOTICE 22

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 emergency 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. - Fumigant(s) applied including the active ingredient, name of the fumigant 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/operator 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

GENERAL NOTICE 23

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 -- 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 1/4 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. --- comments - 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. - Buffer zones -- Application method, -- Application rate from lookup table on label, -- Application block size from lookup table on label, -- Credits applied and measurements taken (if applicable), -- 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) Fumigant 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: --- coveralls over short-sleeved shirt and short pants when in the treated application block --- chemical resistant gloves --- shoes plus socks --- Protective eyewear --- Air-purifying respirators --- Respirator make, model, type, style, size, cartridge type, and cartridge replacement schedule --- Other PPE -- 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 during handler activities, and --- the employer has confirmed that the appropriate respirator and cartridges 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. -- Fumigant site monitoring: --- Monitoring equipment to be used. - 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.

GENERAL NOTICE 24

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.

GENERAL NOTICE 25

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: -- When sensory irritation was experienced: --- 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 air-purifying respirators, implement emergency response plan) - 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.

GENERAL NOTICE 26

ADDITIONAL INFORMATION Important Information to User 1) Read the entire label carefully before use. 2) This product is toxic to all growing plants. 3) Root pruning with a plow or trencher is recommended when applications will be made adjacent to large plant material. 4) If slopes are treated with this product, take precautions to prevent the chemical from washing downward toward desirable plants, creeks, streams, lakes or ponds. Erect silt fences or place straw bales in vulnerable areas. Cover drains in the treated area that may empty into ponds or creeks or onto desirable vegetation. Tarping of these areas is also effective to reduce the possibility of off site movement. 5) Vapors from soil treated with this product in greenhouses and cold frames may injure growing plants. Data are not complete on use in propagating beds composed of materials other than soil or soil and peat mixtures. Clean equipment thoroughly with detergent and water after using with this or with other pesticides before using for other purposes. 6) Fumigation may slow the rate of nitrification (the conversion of nitrates from ammonia by bacterial action). Therefore, certain ammonia-sensitive plants may exhibit growth inhibition when planted in fumigated soils containing high amounts of ammonia nitrogen. To lessen this hazard, at least half, and preferably all, of the nitrogen fertilizer added immediately before or soon after fumigation should be in the form of nitrate nitrogen. This hazard may also be reduced by delaying planting until several months after fumigation, such as fall fumigation before a spring-planted crop. If a nitrate form of nitrogen such as sodium or calcium nitrate is not readily available, ammonium nitrate used sparingly will supply the nitrogen needed without risk. Phosphorus, potassium, and other plant nutrients should be used according to soil needs. Mode of Action When Basamid G soil fumigant is correctly incorporated into moist soil, the active ingredient is transformed into methyl isothiocyanate (MITC) gas. MITC diffuses upward through spaces in the soil, killing the living organisms it contacts. As with other sterilizing materials, the effectiveness of Basamid G depends primarily on the concentration used, the length of time that it takes effect, and the physiological state of the organisms to be controlled. Free-living nematodes, developing fungal mycelium, and freshly-germinating weed seeds are most likely to be controlled. Dormant weed seeds, fungi in a resting stage, and encysted nematodes, or those protected within roots, will not be controlled. Crop Tolerance All crops listed on the label are tolerant to areas that have been treated with Basamid G following dissipation of the gases. Data have shown that certain subsequent crops are positively influenced by a Basamid G treatment, because pathogens, weeds, etc. will not have time to multiply and compete with the crop for nutrients. However, the presence of Basamid G is toxic to all growing plants. Perform the Safety Germination Test to ensure the absence of gases. Cleaning Equipment Clean application equipment thoroughly using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions before and after applying this product.

GENERAL NOTICE 27

FIRST AID If on skin or clothing - Take off contaminated clothing. - Rinse skin immediately with plenty of water for 15-20 minutes. - Call a poison control center or doctor for treatment advice. If in eyes - Hold eye open and rinse slowly and gently with water for 15-20 minutes. - Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. - Call a poison control center or doctor for treatment advice. If inhaled - Move person to fresh air. - If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. - Call a poison control center or doctor for further treatment advice. If swallowed - Call a poison control center or doctor immediately for treatment advice. - Have the person sip a glass of water if able to swallow. - Do not induce vomiting unless told to do so by the poison control center or doctor. - Do not give anything to an unconscious person. EMERGENCY INFORMATION Have the product container or label with you when calling a poison control center or doctor, or going for treatment. FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY: For Medical Emergencies phone: 1-888-681-4261 For Transportation Emergencies, including spill, leak or fire, phone: CHEMTREC(R) 1-800-424-9300 For Product Use Information phone: AMVAC(R) 1-888-462-6822 NOTE TO PHYSICIAN Probable mucosal damage may contraindicate the use of gastric lavage.

GENERAL NOTICE 28

PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals DANGER. Restricted Use Product. 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.

GENERAL NOTICE 29

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.

GENERAL NOTICE 30

User Safety Recommendations Users should: - Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. - Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. - Immediately after handling this product, remove clothing/PPE, wash thoroughly and change into clean clothing. Wash the outside of gloves before removing.

TANK MIX INFORMATION

Do not apply or mix with any other material.