

DADS™ BIOSTIMULANT

EPA REG. NO. 2749-526

Biostimulant Solution for the Control of White Rot (*Sclerotium cepivorum*) in Onions, Garlic, and Leeks

ACTIVE INGREDIENT:

Diallyl Sulfides*.....90%

OTHER INGREDIENTS.....10%

TOTAL 100%

*Contains diallyl monosulfide, diallyl disulfide, diallyl trisulfide, diallyl tetrasulfide

Contains — 8.3 lbs. active ingredient per gallon

KEEP OUT OF REACH OF CHILDREN

NOTIFICATION

Date Reviewed: 11/25/09

Reviewed By: G. Casciano

WARNING

See below for additional precautionary statements.

EPA REG. NO. 2749-526

EPA EST. NO. _____

NET CONTENTS _____ GALS. (____ L)

Batch # _____

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

May be fatal if swallowed or absorbed through skin. Causes skin and moderate eye irritation. Do not get in eyes, on skin, or on clothing. Avoid contact with eyes and avoid breathing vapor. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment (PPE):

Applicators and other handlers must wear coveralls worn over short-sleeved shirt and short pants, socks, chemical-resistant footwear, and chemical-resistant (such as nitrile or butyl) gloves and either a respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE prefilter. When handling product during mixing and loading, wear a chemical resistant apron. When handlers use closed systems, or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40CFR 170.240(d)(4-6), the handler PPE requirements may be reduced or modified as specified in the WPS.

IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down. 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.

USER SAFETY REQUIREMENTS:

1. Respirator Requirements: When a respirator is required for use with this product, the following criteria must be met:
 - a. Cartridges or canisters must be replaced daily or when odor or irritation from this product becomes apparent, whichever is sooner.
 - b. Respirators must be fit-tested and fit-checked using a program that conforms to OSHA's requirements (described in 29 CFR Part 1910.134).
2. Dispose of Contaminated Clothing: Discard clothing and other absorbent materials that have been drenched or heavily contaminated with liquid from this product. Do not reuse them.
3. Clean and Maintain PPE: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Wash PPE after each day's use.

USER SAFETY RECOMMENDATIONS

Users should:

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

FIRST AID

Immediately start the procedures below and contact a Poison Control Center, a physician or the nearest hospital. Describe the type and extent of exposure, the victim's symptoms, and follow the advice given.

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 a person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

EMERGENCY INFORMATION

For spill, leak, fire, exposure, accident or Medical Emergency involving this product call CHEMTREC® 1-800-424-9300. Outside the USA 1-703-527-3887. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, 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 washwaters or rinsate.

Do not contaminate irrigation ditches or water used for irrigation or domestic purposes.

Do not apply when conditions favor drift from treated areas.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal 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, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), restricted-entry intervals, and notification to workers. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard (WPS). Do not enter or allow worker entry into treated areas during the restricted entry interval of 24 hours. PPE requirement for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, is coveralls worn over short-sleeved shirt and short pants, socks, chemical-resistant footwear, and waterproof gloves. Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

PRODUCT INFORMATION

DADS™ is a liquid that acts as a biological stimulator for the germination of White Rot (*Sclerotia cepivorum*) micro-sclerotia. Apply DADS™ to any field that shows evidence of a White Rot problem. If your field and/or adjoining fields have a history of White Rot, treat with a second application prior to planting Allium crop species. Retreat fields which show evidence of re-occurring disease following treatment. Use disease free planting material and sanitize all field equipment that has entered an infested area. When applied to properly prepared soil, the liquid dissipates into the soil and also forms a partial vapor phase that also dissipates into the soil. After a sufficient time the soil is ready for planting. Use DADS™ as an aid in controlling white rot in Allium crops, such as garlic, onions, shallots, and leeks. DADS™ is not a toxicant and is not to be applied as such. When used in a rotational crop, DADS™ will mimic the presence of an Allium crop, which in turn will stimulate the germination of White Rot spores (sclerotia). The germinated spores will subsequently perish since no host Allium crop will be present. **IMPORTANT**, do not use DADS™ when planting an Allium crop as this can potentially enhance white rot injury. The timing for applications must be followed, as treatments are timed for when white rot sclerotia are most susceptible for germination. Improper timing can result in a loss of efficacy of the product, which can result in white rot infestations to Allium crops planted in the following season.

IMPORTANT USE PRECAUTIONS

READ ENTIRE LABEL CAREFULLY BEFORE USE! FAILURE TO FOLLOW ALL DIRECTIONS AND PRECAUTIONS CAREFULLY COULD RESULT IN FAILURE OF PRODUCT PERFORMANCE.

1. Prepare soil as directed under "SOIL PREPARATION" section.
2. Avoid use when the soil temperature in the treated zone is extremely high (over 90° F at two inches deep). Product performance will be impaired under such conditions.
3. Do not apply to the soil surface.
4. This product has an intense and strong garlic odor. It is to be applied directly into the soil as per directions under APPLICATION.

SOIL PREPARATION

1. The area is to be in seedbed condition with a fine tilth, free of clods. Do not apply to dry or improperly tilled soil. Cultivate a week before treatment. Ditching (if practical) around the site will prevent sclerotia from washing into the treated soil and contaminating it.
2. For optimal results, make sure that the soil to be fumigated has sufficient moisture for good plant growth (at least 50% field capacity) for 5 to 14 days (depending upon temperature) before treatment.
3. Do not apply farmyard manure, peat, and other organic fertilizers just before, along with, or just after this product.
4. After treatment, seal the soil to retain the concentration of the product in the soil. This can be achieved by:
 - a. Compacting the soil surface after treatment with a roller to smooth and compact the soil surface.
 - b. Moistening the soil surface (3/16 to 1/8 inches deep) after treatment so that a crust forms. Surface compaction and sealing with water can be combined if desired and conditions warrant. Additional moistening of the soil may be required on the 3rd and 4th days to prevent soil surface cracks.
 - c. In difficult situations, for example heavy soils with high pest pressure or where potential for extensive sheet or rill erosion exists, best results may be obtained by tarping the treated areas. The use of a tarp (plastic, paper, or fabric) spread loosely over the treated area and secured to prevent removal by wind will increase the activity of DADS™. Keep covered for a minimum of 48 hours. Seven days after treatment, cultivate the area to a depth of 2 inches to aerate the soil. DADS™ is a biostimulant used as part of a white rot management strategy in garlic and processed onions. The treated field can be seedbed-ready prior to application. For a fall season application, apply the product when the average soil temperature in a 24 hour period at a 4 inch depth is 70°F and falling. For a spring season application, apply the product when the average soil temperature in a 24 hour period at a 4 inch depth is 48° F and rising. Soil moisture must be 50 to 70% field capacity. No plants of the Allium family, including volunteer plants are to be present in the field following a DADS™ application for a period of 6 months after treatment.

APPLICATION

Apply DADS™ at the rate of 0.5 to 1.0 gallons per acre. Make applications using deep shank soil injection equipment and apply in a minimum of 100 gallons finished spray solution per acre. Use the high rate (1.0 gallons per acre) under heavy white rot levels of infection or when only one application of DADS™ will be applied. If split applications are made both fall and spring, not more than 0.5 gallon per acre rate may be used. Space injection shanks a minimum of 8 inches apart with an application of depth of 12 to 18 inches. Injection ports on the shanks are to be spaced at 3 to 4 inch intervals with first injection port 3 inches below soil surface. Follow directions for sealing application as noted in the Soil Preparation section of this label.

STORAGE AND DISPOSAL

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

STORAGE: Store product in a cool, dry, locked place out of reach of children. Do not store below 0°F. Product crystallizes at lower temperatures. If exposed, warm or store at higher temperatures and mix to redissolve 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 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. Offer for recycling, if available. Clean container promptly after emptying.

Nonrefillable container equal to or less than 5 gallons: 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 and recap. Shake for 10 seconds.

Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Nonrefillable Container 5 gallons to bulk: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. 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 a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Aceto Agricultural Chemicals Corporation. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

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FORMULATED FOR
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