



ACTIVE INGREDIENT:
 Thiram (Tetramethylthiuram disulfide).....75.0%
 OTHER INGREDIENTS:25.0%
 TOTAL 100.0%

EPA Reg. No. 45728-21

EPA Est. No. 32557-BEL-1

For sale to and use by professional applicators only. Not for sale to or use by homeowners/consumers.

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

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

FIRST AID	
IF SWALLOWED	<ul style="list-style-type: none"> ◆ Call a poison control center or doctor immediately for treatment advice. ◆ Have person sip a glass of water if able to swallow. ◆ Do not induce vomiting unless told to do so by a poison control center or doctor. ◆ Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> ◆ 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 INHALED	<ul style="list-style-type: none"> ◆ Move person to fresh air. ◆ If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. ◆ Call a poison control center or doctor for further treatment advice.
IF IN EYES	<ul style="list-style-type: none"> ◆ 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.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For Emergencies involving a Spill, Leak, Fire, Exposure, or Accident, Contact: CHEMTREC at (800) 424-9300. For product usage information, phone Taminco Inc., toll free at (800) 223-3258 from 9:00 AM to 5:00 PM Eastern time.	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed, inhaled or absorbed through skin. Do not get in eyes, on skin or on clothing. Avoid inhaling spray mist. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. The consumption of alcoholic beverages increases the toxic effects of Thiram.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils, polyvinyl chloride (PVC) ≥14 mils, or Viton ≥14 mils. If you want more options, follow the instructions for category C on an EPA chemical resistance selection chart.

All mixers, loaders, applicators and other handlers must wear:

- Long-sleeved shirts and long pants
- Shoes plus socks
- Chemical resistant gloves except when flagging to support aerial application and applying with aerial equipment.
- Chemical-resistant apron when mixing, loading, cleaning up spills, cleaning equipment, or otherwise exposed to concentrate.

See engineering controls for additional requirements and options. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining Personal Protection Equipment (PPE). If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations:

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

Engineering control statements:

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

ENVIRONMENTAL HAZARDS

This chemical is toxic to fish, aquatic invertebrates, oysters and shrimp. Do not apply directly to water, or areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

GENERAL PRODUCT INFORMATION

Defiant® is a broad-spectrum fungicide for use on **Turf** (golf courses) to control Dollar Spot, Brown Patch and Fusarium Patch. When used as a **Repellent**, Defiant® can protect trees, vines, nursery stock, shrubs and ornamentals from rabbit, deer and rodent depredation.

Tamino Inc.'s recommendations for the use of this product are based upon tests believed to be reliable. **FAILURE TO FOLLOW DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR DISEASE CONTROL, OR ILLEGAL RESIDUES.**

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 agency responsible for pesticide regulation.

Do not apply this product using a high pressure handwand or a rights-of-way sprayer.

Not for use on turf being grown for sale or other commercial use such as sod, or for commercial seed production, or for research purposes.

Do not use on residential lawns or turf.

CHEMIGATION: Do not apply this product through any type of irrigation system.

SPRAY DRIFT MANAGEMENT

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions. Apply only as a medium or coarser spray (ASAE standard 572) or a volume mean diameter of 300 microns or greater for spinning atomizer nozzles. Apply only when wind speed is 2-10 mph at the application site.

Additional requirements for ground boom applications:

Do not apply with a nozzle height greater 4 feet above the crop canopy.

GENERAL RECOMMENDATIONS

Be sure spray equipment is clean before use. If it is contaminated with any material, crop injury or sprayer clogging may result. Calibrate spray equipment before use.

Applications of Defiant® fungicide are most effective when made before infection periods. Under low disease conditions, minimum label rates should be used; however, maximum label rates and shortened spray schedules are recommended for severe or threatening disease conditions. If you are not familiar with such conditions, get advice from your state agricultural extension service.

IMPORTANT: When spraying, thorough coverage is necessary to provide good disease control. Addition of a spreader/sticker to the finished spray mixture may improve coverage. Make fresh spray mixtures for each application.

MIXING INSTRUCTIONS

To mix, fill the spray tank about 2/3 full of water, and with agitator running, slowly sift in the recommended amount of Defiant®. Finish filling the tank with water and continue agitation until thoroughly mixed. Continue agitation and apply immediately.

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 (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.

PPE required 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,
- shoes plus socks,
- chemical-resistant gloves made of any waterproof material.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box only apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep unprotected persons out of treated area until sprays have dried.

TURF APPLICATIONS:

Defiant® prevents infestation of common turf diseases such as Dollar Spot, Brown Patch and Fusarium Patch during the Summer growing season and Snow Mold during the cool weather seasons. When used at curative rates, Defiant® will cure diseased turf infected with Dollar Spot and Brown Patch and can also prevent Fusarium Patch when two applications are made during the Fall through the Spring season. Apply Defiant® with properly calibrated mechanical or motorized spray equipment such as a ground boom.

SPECIFIC APPLICATIONS FOR DEFIANT®

TURF	DISEASES	OUNCES DEFIANT® (per 1000 square feet)	DIRECTIONS FOR USE
TURF	Dollar Spot (Sclerotinia homeocarpa)	Preventative Rate: 2.5 to 3.0oz	Apply recommended rate in 5 to 10 gallons water/1000 sq.ft. beginning in early Spring before disease symptoms appear. Repeat at 7 to 10 day intervals as needed when environmental conditions favor disease development. Do not apply more than 40 oz per 1000 sq.ft. during the Summer growing season.
	Brown Patch (Rhizoctonia Blight) (Rhizoctonia solani)		Apply recommended rate in 5 to 10 gallons water/1000 sq.ft. after disease symptoms first appear. Repeat at 7 to 10 day intervals as needed. Do not apply more than 40 oz. per 1000 sq.ft. during the Summer growing season.
	Fusarium Patch (Fusarium nivale) (Pink Snow Mold and Gerlachia Patch)	Preventative Rate: 8.0oz	Apply recommended rate in 2 to 5 gallons water/1000 sq.ft. in late Fall immediately before expected permanent snow cover. As a follow-up to the late Fall application, a Spring application of 3.0 oz/1000 sq.ft. during Spring thaw and after runoff has ended may be necessary to aid in the prevention of Spring disease.

DO NOT graze or feed treated turf.

Golf Course Tees and Greens

The maximum winter application rate for turf is a single application of 16.3 lbs. ai/acre or 0.374 lbs. ai/1000 sq.ft. The maximum summer application rate is 3 applications of 10.2 lbs. ai/acre or 0.234 ai/1000 sq. ft. The maximum annual application rate is 47 lbs. ai/acre or 1.08 lbs. ai/1000 sq. ft.

ANIMAL REPELLENCY APPLICATIONS:

When used according to label instructions, Defiant® can protect trees, vines, nursery stock, shrubs and ornamentals from rabbit, deer and rodent depredation. One application will protect treated parts from 1 to 3 months, depending upon weather conditions. Defiant® can also be used as a repellent in deterring deer from moving into important areas such as airport runways as a result of local feeding and browsing. It can also deter migratory birds such as geese on golf courses and other turf areas. The addition of a latex based sticker prolongs the residual effectiveness of the treatment. Repellency is the result of rendering the treated plant parts distasteful. The maximum application rate for products applied as a mammal (deer) repellent is one pound of product in 3 - 7 gallons of water applied in an area of 1000 square feet. Applications to ornamentals will be restricted to cold weather areas, climate zones 1 through 7, in the following states (MA, NH, VT, ME, RI, CT, NY, NJ, PA, MD, DE, WV, OH, KY, MI, IN, IL, WI, MN, IA, MO, ND, SD, NE, KS, MT, WY, CO, ID, UT, WA, OR, NV, and AK) during the winter season only (October through March).

Applications to Vines, Tree Trunks and Dormant Plants:

Prepare a slurry of 1.33 pounds of Defiant® in 3 gallons of water and apply as a full coverage spray to all portions of the plant to be protected. For greater retention and residual efficacy, add 1 pint of a latex sticker to the spray solution.

Brush on Application:

Prepare a slurry of 1.33 pounds of Defiant® in 3 gallons of water and apply with a paint-brush to stem parts and trunk parts to be protected. For greater retention and residual efficacy, add 1 fluid ounce of a latex based sticker into each quart volume of solution prepared.

Foliar Applications:

Prepare a slurry of 1.33 pounds of Defiant® in 6 gallons of water and apply as a full coverage spray to all portions of the plant to be protected. For greater retention and residual efficacy, add 1 pint of latex based sticker to the spray solution. **DO NOT** use wetting agents or surfactants as foliar damage may result. For best results, spray when temperatures are greater than 40°F and relative humidity is less than 70 percent. **DO NOT USE ON FRUIT FOR HUMAN CONSUMPTION.**

STORAGE AND DISPOSAL

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

Pesticide Storage

Store unused product in original container only. Store in a cool, dry area preferably locked and out of the reach of children and animals. Not for the use or storage in or around the home. Protect from excess heat.

Pesticide Disposal

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

Container Handling (10 lb. lined cardboard boxes)

Nonrefillable container. Do not reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then offer for recycling, if available, or dispose of line in a sanitary landfill or by incineration or, if allowed by State and local authorities, by burning. If burned, stay out of smoke. If box is contaminated and cannot be reused, dispose of it in the manner required for its liner.

TERMS OF SALE OR USE

On purchase of this product, buyer and user agree to the following conditions:

Warranty: Taminco Inc. makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Except as so warranted, the product is sold as is. To the extent permitted by law, buyer and user assume all risk of use and/or handling and/or storage of this material when such use and/or handling and/or storage is contrary to label instructions.

Damages: To the extent consistent with applicable law, buyer's or user's exclusive remedy for damages for breach of warranty or negligence shall be limited to direct damages not exceeding the purchase price paid and shall not include incidental or consequential damages.

Defiant® is a Registered Trademark of Taminco N.V., a Belgian corporation.

**For Emergencies Involving a Spill, Leak, Fire, Exposure, or Accident, contact:
CHEMTREC at (800) 424-9300. For product usage information, phone Taminco Inc., toll
free at (800) 223-3258 from 9:00 AM to 5:00 PM Eastern time.**

NET WEIGHT:



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