

DeThatch-9[®]

Application Type

T/O

Turf & Ornamental

Microbial Thatch Reducer

- Reduces or eliminates unhealthy thatch
- Enhances composts and compost teas
- Breaks down cellulose and lignin
- Converts thatch to nutrients useable by plants
- 100% Soluble - Will not clog machinery

ACTIVE INGREDIENTS:

Streptomyces violaceusniger YCED-9* 01.00%

OTHER INGREDIENTS: 99.00%

TOTAL: 100.00%

*Contains a minimum of 1×10^8 colony forming units per milliliter

Information regarding the contents and levels of metals in this product is available on the Internet at <http://www.aapfco.org/metals.htm>

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

Manufactured by:
Natural Industries, Inc.
6223 Theall Road
Houston, Texas 77066
Questions? (888) 261-4731

Distributed By:
Sipcam Advan
2520 Meridian Parkway, Suite 525
Durham, NC 27713
800-295-0733

9504265-000-20100222

Net Weight: 6 oz (171 grams)



SipcamAdv^{an}

PEEL BACK BOOK HERE

STORAGE AND DISPOSAL

Storage: Do not store in extremely high temperatures (above 130°F).

Disposal: Completely empty container. Then dispose of empty bag in a sanitary landfill or by incineration or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

LIMITED WARRANTY/DISCLAIMER

Manufacturer warrants that this product is suited for the labeled use when applied according to label directions. Manufacturer makes no warranty of merchantability. There are no warranties that extend beyond the description on the face hereof and in no event shall manufacturer be liable for any consequential damages.

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General Information:

DeThatch-9® is an all-natural, microbial thatch reducing agent. The active ingredient in DeThatch-9 breaks down dead plant tissue and frees up soil from harmful thatch accumulation. This powerful microbe actually uses thatch (cellulose and lignin) as a food source and converts it to by-products that are beneficial and useable to plants and turf.

APPLICATION DIRECTIONS:

Compatibility:

DeThatch-9 is completely soluble and does not require agitation to keep suspended in a solution. DeThatch-9 is compatible with most chemical fungicides, and fertilizers. If tank mixes are desired, observe the most restrictive directions, precautions and limitations on labeling of all products used. DeThatch-9 can be tank mixed and dry mixed with most chemical fungicides, fertilizers and biologicals unless otherwise restricted. Do not apply soil fumigants to the areas treated with DeThatch-9. Consult manufacturer for compatibility questions.

Application Timing:

Apply DeThatch-9 throughout the growing season beginning when soil warms to 45°F or pre-plant or pre-emerge to the crops listed on this label.

Note: DeThatch-9 contains live spores of a microbe that should be used prior to disease onset to obtain best results. DeThatch-9 becomes active in soil or on the thatch when the temperatures are above 45°F and is not effective when temperatures remain cold. DeThatch-9 can be applied to sterilized or fumigated soil but it must be applied after sterilization or fumigation active ingredient dissipates.

REI and PHI

DeThatch-9 has no REI (Re-entry Interval) or Pre-Harvest Interval.

PRODUCT USES:

DeThatch-9 can be applied to turf grass including uses on golf courses, sod farms, home lawns, home landscapes, office buildings, apartment complexes, cemeteries, sports fields and other such sites.

DeThatch-9 can also be applied to outdoor ornamental plants used for landscaping around homes, buildings, golf courses, sports fields, and cemeteries.

APPLICATION INSTRUCTIONS:

Golf Course Tees, Greens and Fairways; Commercial and Residential Lawns; Sod Farms, Athletic Fields Parks, Cemeteries and Similar Sites:

Soil Drench Application: Mix DeThatch-9 with appropriate amount of water (2-3 gallons per 1000 sq. ft.). Water in immediately after application with sprinklers for 1-2 minutes.

Apply at a rate of 18-oz of DeThatch-9 per acre for initial application or problem areas when soil temperatures are above 45°F.

Apply maintenance applications of 6 oz. per acre every 4 to 8 weeks through season or until soil temperatures reach 45°F or less.

A soil surfactant is recommended to best move the solution to the thatch of the turf. Consult manufacturer for product recommendations.

Foliar Spray Application: Mix DeThatch-9 with appropriate amount of water (20-100 gallons per acre). Apply in early morning or evening on wet turf.

For smaller quantities: For initial application or problem area use 0.5-oz (12 gr) of DeThatch-9 in 2-3 gallons of water per 1,000 sq. ft. of turf grass. For maintenance application use 0.2-oz (4 gr) of DeThatch-9 in 2-3 gallons of water per 1,000 sq. ft. of turf.

See application chart below for more detailed application instructions.

Applying In Conjunction With Compost Teas

DeThatch-9 can be applied in conjunction with compost teas at the above rates. Add DeThatch-9 to ready to use compost tea or at the end of the composting cycle just prior to application. Do not brew DeThatch-9 with the compost tea as DeThatch-9 spores will die in the process. When adding to compost tea solution, use within 24 hours.

APPLICATION CHART FOR GOLF COURSE, (FAIRWAYS, ROUGHS, GREENS, TEES), COMMERCIAL, LAWNS RESIDENTIAL LAWNS, CEMETERIES, PARKS (AND SIMILAR SITES) ATHLETIC FIELDS SOD FARMS SEED PRODUCTION AND OTHER TURF

Under moderate to severe disease pressure, increase rates and reduce spray intervals or use in a tank mix or rotational program with other registered fungicides.

Turf And Grass Type	Rate	Application Instructions
Bluegrass Bentgrass Bermuda grass (Common & Hybrid) Dichondra Fescue Orchard grass Poa Annua St. Augustine Ryegrass Zoysia Mixtures and other grasses or ornamental turf	6-18 oz per acre (4-12 grams per 1,000 sq ft)	Drench Applications: Mix 6-18 oz. DeThatch-9 with appropriate amount of water (100-150 gallons per acre). Consider use of a soil surfactant to best move the solution to the root zone of the turf. Consult manufacturer for product suggestions. <i>Initial Application or Problem Areas:</i> Apply at a rate of 18 oz. of DeThatch-9 per acre of turf grass when soil temperatures are above 45°F. <i>Maintenance:</i> Apply at a rate of 6 oz. of Actinovate® Soluble per acre of turf grass every 14-28 days through season or until soil temperatures reach 45°F or less. Spray Applications: Mix 6-18 oz. of DeThatch-9 with appropriate amount of water (20-100 gallons per acre of turf grass). Apply at initial application or maintenance rates as above in early morning or evening on wet turf. Water in immediately after application with sprinklers for 1-2 minutes. Consider use of a soil surfactant to best move the solution to the thatch layer of the turf. Consult manufacturer for product suggestions. Continue applications at 14-28 day intervals through season or until soil temperatures fall to 45°F or lower. For Less Than Acre Areas: <i>Initial Application or Problem Areas:</i> Use 0.5 oz (12 grams) of DeThatch-9 in 2-3 gallons of water per 1,000 sq. ft. of turf grass. <i>Maintenance:</i> Use 0.2 oz (4 grams) of DeThatch-9 in 2-3 gallons of water per 1,000 sq. ft. of turf grass. Consider use of a soil surfactant to best move the solution to the root zone of the turf. Consult manufacturer for product suggestions. Continue applications at 14-28 day intervals through season or until soil temperatures fall to 45°F or lower.