

In a letter accompanying the report, Dietz said, "After careful review of this information, I believe you will be able to make an informed decision about this issue of impact on 2,4-D."

Dietz has appealed to green industry members to speak up on the benefits and safety of 2,4-D before "unwarranted and precipitous actions prevail, circumventing a just conclusion," he said.

"If we do not make ourselves heard at the state or provincial and federal levels of government, those who regulate our industry will have little

choice but to act according to input from those who have," Dietz said. "We can sit back and let our future be dictated by others, or we can make the voice of the 'silent majority' be heard."

#### CHEMICALS

### Diazinon still in use after ban appealed

The insecticide diazinon will be available for use on golf courses and sod farms at least until this summer.

The product's status is on "hold" because of appeals by the chemical's manufacturers to the EPA. Hearings are not expected until late summer or fall, according to information from Ciba-Geigy.

"As the nation's largest supplier of diazinon, we're taking the lead to defend the product," says Dick Feulner, Ciba-Geigy director of regulatory affairs. "We have years of research data on the safe use of diazinon."

There had been some confusion concerning the status of the chemical. In an effort to inform the public of diazinon's status, Ciba-Geigy held a press conference January 31, during the Golf Course Superintendents Association of America conference in Phoenix, Ariz.

At the press conference, Ciba-Geigy officials said they conducted a biolife investigation and found that four of the 40 birdkills were the result of deliberate misapplication. Twenty-two were intentional misapplication, one was not the result of diazinon use, and just two were apparent proper applications. Circumstances were unknown in the remaining 11 instances.

The EPA proposed cancellation of diazinon in December, 1986, after receiving reports of bird kills allegedly resulting from exposure to the chemical. The company maintains that diazinon is safe when applied properly. Ciba-Geigy intends to present research at upcoming EPA hearings verifying the product's safety.

Nonetheless, the company has adjusted its labeling rates to four pounds of active ingredient per acre, down from six. The company maintains that the effectiveness will only drop off slightly as a result of the change.

#### RESEARCH

### Fungicide combinations effective in control

A more effective control of some turf diseases can be accomplished using certain fungicides in combination. This was the recommendation made by Dr. Anna Marie Pennucci at the GCSAA Show in Phoenix, Ariz., in January.

In a talk concerning tank-mixing, she suggested that by mixing the fungicides, rates could be reduced, adding that alternating fungicides produced the best results.

Pennucci, a professor at Southern Illinois University, Carbondale, conducted her research in the Northeast, and, she added, her research applies only to cool season climates.

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## Fungicide Combinations for Control of Dollar Spot

Combination	Ounces/ Square Feet	Percent of Disease in Turf After Treatment
Tersan 1991 + Chipco 26019	2 + 2	0-2
+ Daconil	2 + 4	0-0
+ Dyrene	2 + 4	0-2
+ Vorlan	2 + 2	0-0
Bayleton + Chipco 26019	1/2 + 2	trace-1.5
+ Daconil	1/2 + 4	0-1
+ Dyrene	1/2 + 4	0-1
+ Vorlan	1/2 + 2	0-0
Rubigan + Chipco 26019	1/2 + 2	0-2
+ Daconil	1/2 + 4	0-trace
+ Dyrene	1/2 + 4	1.5-3
+ Vorlan	1/2 + 2	0-0
Banner + Chipco 26019	1/2 + 2	0-1/2
+ Daconil	1/2 + 4	0-trace
+ Dyrene	1/2 + 4	0-1/2
+ Vorlan	1/2 + 2	0-0

## Fungicide Combinations for Control of Brown Patch

Tersan + Chipco 26019	0-2
+ Daconil/Dyrene	0-1
+ Vorlan	0-1
Banner + 26019	0-1.5
+ Daconil/Dyrene	0-3
+ Vorlan	0-2
Rubigan + Chipco 26019	0-1
+ Daconil/Dyrene	0-1
+ Vorlan	0-2

## FUNGICIDE from page 22

"There are things to consider when mixing more than one at a time," she said. Considerations include compatibility, phytotoxicity and clumping in the tank. But, she said, "For cool season climates, the best control is by tank mixing."

She pointed out a number of benefits from using two fungicides at once. They result in better control, longer residual (21-60 days), less chance of resistance, and the ability to eliminate more than one disease.

Using tank mixes, she said, is good for controlling diseases with short intervals between spore generations, and those with persistent, long-lived mycelium, such as dollar spot.

Pennucci's studies show that Vorlan in combination with either Tersan, Bayleton, Rubigan or Banner, gave the best control (see chart). Other combinations provided adequate control.

She noted, however, that there seemed to be no combination that would provide total control of brown patch. "There was no constant control of brown patch in 1986," she said.

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