

less than a kilogram, so all they have to ingest is about the amount of diazinon that is equivalent to the amount of a baby aspirin.

Unlike the insolubles, the solubles can be absorbed through the skin. As a rule, one need not worry about the diluted spray, but must exercise caution in handling the concentrates. Wear protective clothing and a respirator when preparing the diluted mixture in the spray tank.

Let's consider a prominent soluble fungicide which has been around for many years. Despite a startlingly high

toxicity, you have used it successfully for decades without any fear that it is hazardous.

This product is Actidione TGF—an antibiotic! Antibiotics are safe; haven't we all taken antibiotics prescribed by doctors? Well, this one has a MLD₅₀ of two mg. per kg.! But Upjohn, the manufacturer, did an excellent job of formulating the product to market it in a form that was non-poisonous.

A product must bear a skull and crossbones label if the formulated material has an MLD₅₀. By diluting Actidione with inerts so that you received

a two percent mixture, the formulated product then had an MLD₅₀ of 100.

Upjohn asked the consumer to dilute the product with water at the rate of one oz. per three gallons of water. The diluted spray then had an MLD₅₀ of 37,500.

This example emphasizes the importance of exercising great care and caution working with the formulated concentrate and at the same time demonstrates the minimal danger of handling the diluted spray. Actidione was taken off the market because EPA challenged the risk factor and Nor-Am made the business decision to drop the product.

I've included a table of the MLD₅₀'s of all the pesticides available to the golf course superintendent. This data was taken from W.T. Thomson's Agricultural Chemicals 1985-86 Revision. Bear in mind that the LD refers to the pure active ingredient, so that if you want the MLD₅₀ of the formulated product, you divide by the percentage of active. For example, Caddy is 20 percent cadmium chloride solution. Since cadmium chloride has an MLD₅₀ of 88, dividing by 0.2, the MLD₅₀ of Caddy becomes 440.

Nothing in my talk should be interpreted as a suggestion that you can ignore safety in using pesticides. Read and follow the label instructions carefully! Read the Material Safety Data Sheet carefully! Follow the manufacturers' recommendations on personal protective equipment required. It is better to be overly safe than sorry. **LM**

SNAPPER®

INTRODUCING OUR HEAVY-DUTY AND MID-DUTY COMMERCIAL MOWERS

HEAVY-DUTY.

Heavy Duty commercial mowers feature 32", 36" and 48" cutting decks, with engines available on various models from 8, 12, 12.5 HP to 14 HP. Four forward speeds and six cutting heights allow you to adjust to varying conditions. The 4 gallon fuel tank is a real time saver. Pneumatic tires are also standard. Options include a riding sulky and a 3 bushel catcher.

MID-DUTY.

Mid-Duty commercial mowers use the 30" or 41" mowing decks and feature light touch steering. An I/C 8 or 12 HP engine is standard on the 30", with a 12 HP engine only on the 41". All models feature single lever cutting height adjustments, 5 forward speeds for ease of mowing and transporting, handles that adjust to 3 height positions, and no-tools blade belt adjustment.



48" Heavy-Duty

41" Mid-Duty

Snapper also offers 21" walk mowers, riders, tractors, trimmers, pluggers, power rakes and snowthrowers especially designed for commercial use.

Snapper Power Equipment, McDonough, GA 30253

Manufacturers of quality Lawn and Turf Equipment. A division of Fuqua Industries.

The coming months in LANDSCAPE MANAGEMENT

OCTOBER

A special pull-out report on golf course management will be featured, along with our annual turfseed availability outlook. Also in the spotlight will be utility vehicles.

NOVEMBER

Use large equipment? Look for a special feature on backhoes and front-end loaders. Also, a pull-out section on lawn care, celebrating the annual Professional Lawn Care Association of America's convention and trade show.

DECEMBER

The green industry itself will be in the spotlight with our annual "State of the Industry" report, along with a pull-out report on government landscape management. And this will be a saveable issue with our annual Golf and Turf Calendar.