

Mrs. Al. Dorband (Mission Hills) is out of the hospital and doing well.

Norm Kramer was elected president of the Midwest Turf Foundation at Purdue and Ted Woehrlé became a member of the board of directors.

Chicago District Golf Association meeting on irrigation March 23.

Mrs. Ken Lapp (Fresh Meadows) underwent surgery the first of the month and is doing well.
Area Code 312

DANGER—POISON

The Relative Toxicity of Agricultural Chemicals

Many persons are concerned with the new insecticides and how poisonous they are to humans and other warm-blooded animals. Those selling and using these materials should be alert and realize the potential dangers involved. Purchasers of insecticides should also be warned of their toxicity and to follow **manufacturer's** directions when they mix and apply these chemicals. Even more amounts of many of the so-called "safe" insecticides and fungicides can cause sickness and even death if they are improperly used. The following table gives the amount of the actual material that will kill 50% of the rats to which it is fed on a weight basis; and the amount which, when taken internally, might be considered lethal to a 150-pound man. Those with an asterisk (*) are organic phosphate insecticides.

Material	Acute Oral Toxicity to Rats (LD-50 Mg/Kg Body Weight)	Estimated Lethal Dose for 150-pound Man (in ounces)
Aramite	4,000	9.600
Chlordane	460	1.104
Chlorobenzilate	702	1.685
DDD (Rhothane)	330	0.792
DDT	113	0.271
Dieldrin	100	0.240
*Dithio (Sulpha-Tepp, Thiotep)	8	0.019
Endrin	10	0.024
Kelthane	730	1.752
Lead Arsenate	125	0.300
Lindane	125	0.300
*Malathion	1,000	2.400
Metaldehyde	1,000	2.400
*OMPA (Schradan)	18	0.043
*Parathion	3	0.007
*Phosdrin	7	0.017
Sevin	540	1.296
*Systox	7	0.017
Tedion	14,700	35.280
*TEPP	2	0.005
*Thimet	3	0.007
Toxaphene	90	0.216
Ferbam (Fungicide)	17,000	40.800
Maneb (Fungicide)	7,500	18.000
Nabam (Fungicide)	395	0.948
Zineb (Fungicide)	5,200	12.480

AS YOU CAN SEE FROM THE TABLE, IT TAKES FAR LESS THAN ONE OUNCE OF MOST OF THESE MATERIALS TO KILL A HUMAN, AND SOME ARE SO VIOLENTLY POISONOUS THAT A FATAL DOSE

WOULD BE DIFFICULT TO MEASURE BECAUSE IT IS SO SMALL!

The amounts stated in the table would likely be **fatal** when taken internally. But it must be remembered that although it is rather common for these materials to be swallowed, many (such as Parathion and Thimet) are **nearly as dangerous when absorbed through the skin. Beware of breathing in these materials too!**

The effect of the organic phosphate is cumulative in the body. Since all of the phosphate insecticides act in the same manner on the system, they should be avoided if it is suspected that you have been poisoned by any one of them. Note that of the phosphates listed, Malathion is by far the least toxic; all of the others are **extremely poisonous.**

If you are using any of the phosphate insecticides, **notify your family physician** to that effect and tell him you want atropine pills to keep in your first-aid kit. Always use a full-face respirator and protective clothing when applying these materials. **Don't forget the rubber gloves. And keep insecticides off your skin!!** If you begin to feel light-headedness, tightness of the chest, nausea, or dizziness while using these materials (or immediately after), call for medical aid and meanwhile take the atropine pills as recommended by your doctor.

Be Alert when applying these materials and notify persons purchasing and using them as to the potential danger. These chemicals are very effective for killing certain insect and fungus diseases; but they do not discriminate between these and the human being who handles them carelessly!!!

(From **TURF BULLETIN** Mass. Turf and Lawn Grass Council)

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HUMUS — BLACK SOIL

HENRY FRENZER

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