

**Table 2. Toxicity of Chemicals**

Name <sup>1</sup>	Type <sup>2</sup>	Use Class <sup>3</sup>	LD <sub>50</sub> Values Mg/Kg <sup>4,5</sup>		Reentry <sup>6</sup> (Hours)	Toxicity <sup>7</sup>		
			Oral	Dermal		Bird	Fis	Bee
2,4-D (acid)	H	R(NJ),G	375	--	48	M	N	H
abamectin, Agri-Mek	I	R	300	1,800	12	H	H	H
Adios, carbaryl	I	G	tech 283	>2,000	12	S	N	H
Agri-Mek, abamectin	I	R	300	1,800	12	H	H	H
Agri-Mycin-17, streptomycin	B	G	9,000	--	12	--	--	--
Agri-Strep, streptomycin	B	G	9,000	--	12	--	--	--
Aliette, fosetyl Al	F	G	tech 5000	>2,000	12,24	--	--	--
Ambush, permethrin	I	R	tech 430-4,000	>4,000	24	--	H	H
amitraz, Mitac	A,I	R	tech 800	1,000	24	M	H	N
Ammate-X, AMS	H	G	3,900	--	12	--	--	--
AMS, Ammate-X	H	G	3,900	--	12	--	--	--
Apollo, clofentizine	A	G	tech >3,200	>2,400	12	--	--	--
Asana XL, esfenvalerate	I	R	458	>2,000	12	--	H	H
azinphos-methyl, Guthion	I	R	tech 5-20	220	48	M	H	H
<i>Bacillus thuringiensis</i>	I	G	See Footnote 8		4	N	N	N
Bayleton, triadimefon	F	G	tech >1,000	>2,000	12	--	N	N
Benlate, benomyl	F	G	>10,000	>10,000	24	--	S	N
benomyl, Benlate	F	G	>10,000	>10,000	24	--	S	N
Biobit, <i>Bacillus thuringiensis kurstaki</i>	I	G	See Footnote 8		4	N	N	N
Blue Shield, copper hydroxide	F	G	1,000	--	48	--	--	--
Botran, dicloran	F	G	tech >5,000	--	12	S	--	N
Bravo, chlorothalonil	F	G	>10,000	>10,000	24	--	H	--
Busan, metam-sodium	N	G	1,891	>3,074	48	--	H	N
captan	F	G	9,000	--	96	S	H	N

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(cont.)**

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			Oral	Dermal		Bird	Fish
Carbamate, ferbam	F	G	725	>2,000	12	--	M
carbaryl, Sevin, Adios	I	G	500	850	12,24	S	N
Carzol, formetanate	A,I	G	20	>10,000	48	H	H
Casoron, dichlobenil	H	G	3,160	1,350	12	S	H
CEPHA, ethephon	PGR	G	4,229	--	24,48	--	--
chlorothalonil, Bravo	F	G	>10,000	>10,000	24,48	--	H
chlorpyrifos, Lorsban	I	R(NJ),G	92-276	2,000	12,24	M	H
clofentizine, Apollo	A	G	tech >3,200	>2,400	12	H	H
copper hydroxide, Kocide, Blue Shield	F	G	1,000	--	48	--	--
copper sulfate	F	G	472	--	48	--	--
Cyon, dimethoate	I	R(NJ),G	tech 235	>400	24	H	H
Cyprex, dodine	F	G	1,000	>6,000	48	--	--
Cythion, malathion	I	G	tech 5,500	>2,000	12	M	H
dalapon, Dowpon M	H	G	9,330	--	24	S	N
Defend, dimethoate	I	R(NJ),G	tech 235	>400	24	H	H
Devrinol, napropamide	H	G	>4,640	--	12,48	--	--
Diazinon, diazinon	I	R	tech 300-400	3,600	12,24	H	H
diazinon, Diazinon, Spectracide	I	R	tech 300-400	3,600	12,24	H	H
dichlobenil, Casoron, Norosac	H	G	3,160	1,350	12	S	H
dichloropropene, Telone II	N	R(NJ),G	300	333	72	--	--
dicloran, Botran	F	G	tech >5,000	--	12	S	--
dicofol, Kelthane	A	G	820-960	1,000-1,230	12,24	M	H
dimethoate, Cygon, Defend	I	R(NJ),G	tech 235	>400	24	H	H
dinocap, Karathane	F	G	tech 980	--	12	--	H

**Table 2. Toxicity of Chemicals  
(cont.)**

Name <sup>1</sup>	Type <sup>2</sup>	Use Class <sup>3</sup>	LD <sub>50</sub> Values Mg/Kg <sup>4,5</sup>		Reentry <sup>6</sup> (Hours)	Toxicity <sup>7</sup>	
			Oral	Dermal		Bird	Fish
DiPel, <i>Bacillus thuringiensis kurstaki</i>	I	G	See Footnote 8	--	4	N	N
diphenamid, Enide	H	G	tech 1,000	--	12	S	S
Dithane M-22, maneb	F	G	tech 7,990	>5,000	12	--	H
diuron, Karmex	H	G	tech >5,000	>5,000	24	N	N
dodine, Cyprex, Syllit	F	G	1,000	>6,000	48	--	--
Dowpon M, dalapon	H	G	9,330	--	12	S	N
Elite, tebuconazole	F	G	4,000	>5,000	12	--	--
endosulfan, Thiodan, Phaser	I	R(NJ),G	tech 160	>500	48	H	H
Enide, diphenamid	H	G	tech 1,000	--	12	S	S
esfenvalerate, Asana XL	I	R	458	>2,000	12	--	H
ethephon, CEPHA, Ethrel	PGR	G	4,229	--	24,48	--	--
Ethrel, ethephon	PGR	G	4,229	--	24,48	--	--
fenamiphos, Nemacur	N	R	tech 3	200	48	H	H
fenamirol, Rubigan	F	G	tech 2,500	--	24	--	H
fenbuconazole, Indar	F	G	>2,000	>5,000	12	--	--
fenbutatin-oxide, Vendex	A	G	2,631	>2,000	48	--	--
ferbam, Carbamate, Fermate	F	G	725	>2,000	12	--	N
Fermate, ferbam	F	G	725	>2,000	12	--	N
fixed copper <sup>9</sup>	F	G	--	--	24	--	--
formetanate, Carzol	A,I	G	20	>10,000	48	H	H
fosetyl Al, Aliette	F	G	tech 5000	>2,000	12,24	--	--
Funginex, triforine	F	G	>16,000	>10,000	48	--	N
glyphosate, Roundup	H	G	4,300	7,940	24	--	N
Gramoxone Extra, paraquat	H	R	150	--	48	M	N

**Table 2. Toxicity of Chemicals  
(cont.)**

Name <sup>1</sup>	Type <sup>2</sup>	Use Class <sup>3</sup>	LD <sub>50</sub> Values Mg/Kg <sup>4,5</sup>		Reentry <sup>6</sup>	Toxicity <sup>7</sup>	
			Oral	Dermal		(Hours)	Bird Fis h
Guthion, azinphos-methyl	I	R	tech 10	200	48	M	H
hexythiazox, Savey	A	G	>5,000	>5,000	12	--	--
imidacloprid, Provado	I	G	2,591	>2,000	12	M	M
Imidan, phosmet	I	R(NJ),G	tech 147-316	>4,640	24	S	H
Indar, fenbuconazole	F	G	>2,000	>5,000	12	--	--
insecticidal soap, M-Pede	I	G	16,900	--	12	N	N
iprodione, Rovral	F	G	>4,400	>2,000	12	--	S
Javelin, <i>Bacillus thuringiensis kurstaki</i>	I	G	See Footnote 8	--	4	N	N
Karathane, dinocap	F	G	tech 980	--	12	--	H
Karmex, diuron	H	G	tech >5,000	>5,000	24	N	N
Kelthane, dicofol	A	G	570-595	>5,000	12,24	M	H
lime sulfur	F	G	400-500	--	48	--	--
Lorsban, chlorpyrifos	I	R(NJ),G	92-276	2,000	24,12	M	H
M-Pede, insecticidal soap	I	G	16,900	--	12	N	N
malathion, Cythion	I	G	tech 5,500	>2,000	12	M	H
maneb, Manzate D, Dithane M-22	F	G	tech 7,990	>5,000	12	--	H
Manzate D, maneb	F	G	tech 7,990	>5,000	12	--	H
Marlate, methoxychlor	I	G	6,000	--	12	S	N
metam-sodium, Busan, Vapam	N	G	1,891	>3,074	48	--	H
methidation, Supracide	I	R	44	640	48	--	H
methomyl, Lannate	I	R	17	5,880	48	H	H
methoxychlor, Marlate	I	G	6,000	--	12	S	N
methyl parathion	I	R	6	50	48	H	H
methyl parathion (encapsulated), Penncap-M	I	R	>600	>5,400	48	H	H

**Table 2. Toxicity of Chemicals  
(cont.)**

Name <sup>1</sup>	Type <sup>2</sup>	Use Class <sup>3</sup>	LD <sub>50</sub> Values Mg/Kg <sup>4,5</sup>		Reentry <sup>6</sup>	Toxicity <sup>7</sup>	
			Oral	Dermal		(Hours)	Bird Fis h
metiram, Polyram	F	G	tech >6,810	>2,000	12	--	M
Mitac, amitraz	A,I	R	tech 800	1,000	24	M	H
Morestan, oxythioquinox	A,F	G	tech 1,500	>5,000	24	M	H
MVP, <i>Bacillus thuringiensis kurstaki</i>	I	G	See Footnote 8		4	N	N
myclobutanil, Nova	F	G	1,600	>5,000	24	--	--
Mycoshield, Terramycin	B	G	4,800	--	12	--	--
NAA	GR	G	2,520	--	12,48	--	--
NAD	GR	G	1,690	>2,000	12	--	--
napropamide, Devrinol	H	G	>4,640	--	12,48	--	--
Nemacur, fenamiphos	N	R	tech 3	200	48	H	H
norflurazon, Solicam	H	G	>8,000	>20,000	12	N	M
Norosac, dichlobenil	H	G	3,160	1,350	12	S	H
Nova, myclobutanil	F	G	1,600	>5,000	24	--	--
Omite, formetanate	A	R	4,029	2,940	48	S	H
Orbit, propiconizol	F	G	1,517	>4,000	24	H	L
oryzalin, Surflan	H	G	>10,000	--	12	--	--
oxamyl, Vydate L	I,N	R	37	2,960	48	H	H
oxythioquinox, Morestan	A,F	G	tech 1,500	>5,000	24	M	H
paraquat, Gramoxone Extra	H	R	150	--	48	M	N
Penncap-M, methyl parathion (encapsulated)	I	R	>600	>5,400	48	H	H
permethrin, Ambush, Pounce	I	R	tech >4,000	>4,000	12,24	N	H
Phaser, endosulfan	I	R(NJ),G	tech 160	>500	48	H	H
phosmet, Imidan	I	R(NJ),G	tech 147-316	>4,640	24	S	H
Phospamidon, phosphamidon	I	G	17-30	267	48	H	H

**Table 2. Toxicity of Chemicals  
(cont.)**

Name <sup>1</sup>	Type <sup>2</sup>	Use Class <sup>3</sup>	LD <sub>50</sub> Values Mg/Kg <sup>4,5</sup>		Reentry <sup>6</sup>	Toxicity <sup>7</sup>	
			Oral	Dermal		(Hours)	Bird Fis h
phosphamidon, Phospamidon	I	G	17-30	267	48	H	H
Poast, sethoxydim	H	G	3,200-3,500	>5,000	12,24	S	M
Polyram, metiram	F	G	tech >6,810	>2,000	12	--	M
Pounce, permethrin	I	R	tech 430-4,000	>4,000	12,24	N	H
Princep, simazine	H	G	tech >5,000	>3,100	12	--	N
propiconizol, Orbit	F	G	1,517	>4,000	24	H	L
Provado, imidacloprid	I	G	2,591	>2,000	12	M	M
Ronilan, vinclozolin	F	G	tech >10,000	--	12	--	S
Roundup, glyphosate	H	G	5,000	>5,000	24	N	N
Rovral, iprodione	F	G	>4,400	>2,000	12	--	S
Rubigan, fenamirol	F	G	tech 2,500	--	24	--	H
Savey, hexythiazox	A	G	>5,000	>5,000	12	--	--
sethoxydim, Poast	H	G	2,676-3,125	>5,000	12,24	S	M
Sevin, carbaryl	I	G	tech 283	>2,000	12,24	S	N
simazine, Princep	H	G	tech >5,000	>3,100	12	--	N
Sinbar, terbacil	H	G	5,000-7,500	--	12	--	--
Solicam, norflurazon	H	G	>8,000	>20,000	12	N	M
Spectracide, diazinon	I	R	tech 300-400	3,600	12,24	H	H
streptomycin, Agri-Mycin-17, Agri-Strep	B	G	9,000	--	12	--	--
sulfur	A,F,I	G	>5,000	>5,000	12,24,48	N	N
Supracide, methidathion	I	R	44	640	48	--	H
Surflan, oryzalin	H	G	>10,000	--	12	--	--
Syllit, dodine	F	G	1,000	>6,000	48	--	--
tebuconazole, Elite	F	G	4,000	>5,000	12	--	--

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(cont.)**

Name <sup>1</sup>	Type <sup>2</sup>	Use Class <sup>3</sup>	LD <sub>50</sub> Values Mg/Kg <sup>4,5</sup>		Reentry <sup>6</sup>	Toxicity <sup>7</sup>	
			Oral	Dermal		(Hours)	Bird Fis h
Telone II, dichloropropene	N	R(NJ),G	300	333	72	--	--
Tenn-Cop, fixed copper <sup>9</sup>	F	G	--	--	24	--	--
terbacil, Sinbar	H	G	5,000-7,500	--	12	--	--
Terramycin, Mycoshield	B	G	4,800	--	12	--	--
Thiodan, endosulfan	I	R(NJ),G	tech 160	>500	48	H	H
thiophanate-methyl, Topsin-M	F	G	7,500	--	12	--	S
thiram, Thylate	F	G	tech 1,000	>5,000	12	S	H
Thylate, thiram	F	G	tech 1,000	>5,000	12	S	H
Topsin-M, thiophanate-methyl	F	G	7,500	--	12	--	S
triadimefon, Bayleton	F	G	tech >1,000	>2,000	12		N
triflumizole, Procure	F	G	tech 1,057	>5,000	24	N	H
triforine, Funginex	F	G	>16,000	>10,000	48	--	N
Vapam, metam-sodium	N	G	1,891	>3,074	48	--	H
Vendex, fenbutatin-oxide	A	G	2,631	>2,000	48	--	--
vinclozolin, Ronilan	F	G	tech 10,000	--	12	--	S
Vydate L, oxamyl	I,N	R	37	2,960	48	H	H
XenTari, <i>Bacillus thuringiensis aizawai</i>	I	G	See Footnote 8		4	N	N
ziram	F	G	1,400	>6,000	48, 12	--	M

-- = Data not available

<sup>1</sup> Names: Trade names begin with capital letters; common names with small.

<sup>2</sup> Type: A = acaricide, B = bactericide, F = fungicide, H = herbicide, IGR = insect growth regulator, I = insecticide, N = nematicide, and PGR = plant growth regulator.

<sup>3</sup> Use class: R = restricted use and G = general use. Chemicals designated as general or restricted use as determined by state or federal agencies. Restricted use may not apply to all formulations or all uses of a formulation. Check the label to be sure. The designation (NJ) refers to a compound that is classified as restricted use in New Jersey.

<sup>4</sup> Formulations: LD50 values given are for formulated material as you would purchase it; for example, 50WP, 4E, etc., unless noted otherwise.

<sup>5</sup> LD<sub>50</sub> = milligrams of substance per kilogram of body weight of the test animal. > = higher than the figure listed. Source: 1995 Farm Chemicals

<sup>9</sup> Fixed coppers are listed under several commercially available trade names. Examples are: Basicop, Champion, COPPER-COUNT-N, Kocide, Super Cu, Tenn-Cop, Top Cop with Sulfur, Top Cop Tri-Basic, and Tri-Basic Copper Sulfate.