

## RELATIVE TOXICITY OF HERBICIDES TO MAMMALS

**Table 1. Explanation of how pesticide toxicity is classified.**

Toxicity Rating <sup>1</sup>	Class	LD50 (mg/kg) <sup>2</sup>	Probable Lethal Dose for a 150 lb. man
1	Extremely toxic	less than 5	A taste (less than 7 drops)
2	Very toxic	5 to 49	7 drops to 1 teaspoonful
3	Moderately toxic	50 to 499	1 teaspoonful to 1 ounce
4	Slightly toxic	500 to 4999	1 ounce to 1 pint
5	Almost nontoxic	5000 to 14999	1 pint to 1 quart
6	Nontoxic	15000 and above	More than 1 quart

<sup>1</sup> Numerical rating is based on the following classification: 1. Absorbed and poisonous; 2. Causes burn and blisters;

3. Moderately irritating; 4. Mildly irritating; 5. Nonirritating

<sup>2</sup> Based on acute oral LD50 values for adult white rat with technical material. Toxicity of commercial formulations is usually less than technical material.

**FOR INFORMATION ON TOXICOLOGY, ECOLOGICAL AND ENVIRONMENTAL EFFECTS OF  
PESTICIDES: NATIONAL PESTICIDE TELECOMMUNICATIONS NETWORK  
1-800-858-7378 (OPEN 7 DAYS A WEEK FROM 6:30 a.m.-4:30 p.m. PACIFIC TIME)**

**Table 2. Relative toxicity of selected herbicides.**

Common Name or Designation	Some Common Trade Names	LD50 mg/kg	Toxicity Rating	Dermal Response
	Weedazol	1,000	6	4
2,3,6-TBA	Trysben, Benzac	1644	4	5
2,4,5-T	Various brands	300	3	4
2,4-D	Various brands	500	4	4
2,4-D + EPTC	Knoxweed	2710	4	4
2,4-DB	Butyrac, Butoxone	500	4	4
2,4-DEP	Falone	850	4	4
Acetochlor	Harness, Surpass	2148	4	4-5
Acifluorfen	Blazer	1370	4	3
Acrolein	Aqualin	46	2	2
Alachlor	Lasso	1200	4	3
Ametryn	Ametryne	965	4	-
Amiben	Amiben, Vegiben	3500	4	-
Amitrole	Amino Triazole	5000	4	
Amitrole-T	Amitrol-T, Cytrol	5000	4-5	5
AMS	Ammate	1600	4	5
AMS	Ammate X	3900	4	5
Aromatic solvents	Various brands	--	3	--
Aspirin	(For comparison)	750	4	5
Asulam	Asulox	>5000	5	4-5

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Atrazine	AAtrex	3080	4	5
Bandane	Bandane	540	4	--
Benefin	Balan	1000	5	--
Bensulfuron	Londax	>5000	5	5
Bensulide	Betasan, Pre-san	770	4	--
Bentazon	Basagran	1100	4	3-4
Borate	Borax, Borascu	2500	4	4
Bromacil	Hyvar X	5200	5	4
Bromoxynil	Buctril, Brominil	260	3	4
Butachlor	Machete	2000	4	3
Butylate	Sutan	3997	4	3
C-6313	Maloran	2150	4	3
C-6989	Preforan	1000	6	5
Carfentrazone	Aim	5143	5	5
Cacodylic acid	Ansar 560, 120	1000	4	--
Calcium arsenate	Various brands	35	2	4
Calcium cyanamide	Aero-Cyanamide	1400	4	--
CDAA	Randox	750	4	2
CDEC	Vegadex	850	4	3
Chlorimuron	Classic	>4000	4	5
Chloroxuron	Tenoran	3700	4	5
Chlorsulfuron	Glean	5545	5	5
CIPC	Chloro-IPC	5000	5	5
Clethodim	Select	1360	4	3-4
Clomazone	Command	1406	4	4-5
Clopyralid	Stinger	4300	4	4
Cloransulam-methyl	First Rate	>5000	5	4-5
CMA	Super-Dal-E-Rad	400	3	--
Copper sulfate	Various brands	300	3	--
Cyanazine	Bladex	334	3	4
Cyhalofop	Clincher	1612 to <5000	4	
Dalapon	Dowpon, Basfapon	9300	4	4
DCPA	Dacthal	300	4	5
Diallate	Avadex	395	3	3
Dicamba	Banvel	1040	4	--
Dichlobenil	Casoran	4250	4	4
Dichlone	Phygon	1380	4	3
Dichlorprop	2,4-DP	800	4	5
Diclofop	Hoelon 3EC, Illoxan	557	4	4-5
Dimethenamid	Frontier	2400	5	4
Diphenamid	Dymid, Enide	960	4	5
Diquat	Diquat	400	3	2

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Dithiopyr	Dimension	3600	4	3
Diuron	Karmex	3400	4	4
DMPA	Zytron	1000	4	-
DMTT	Mylone	500	4	4
DNBP	Sinox, Dow Chem	30	2	1
DNBP (amine)	Preemerge, Sinox PE	40	2	1
DSMA	Sodar, Ansar, Methar	600	4	5
Endothal	Endothal, Aquathol	35	2	3
EPTC	Eptam	1630	4	--
Erbon	Baron, Novon	1000	4	3
Ethofumesate	Prograss	<6400	5	4
Fenac	Fenac	3000	4	--
Fenoxaprop	Whip, Acclaim	3310	4	4
Fenuron	Dybar	6400	5	4
Fenuron + TCA	Urab	4000	4	--
Fluazifop	Fusilade	4350	4	3-4
Fluchloralin	Basalin	1550	4	--
Flumetsulam	Broadstrike	>5000	5	5
Flumiclorac	Resource	>5000	5	4-5
Flumioxazin	Valor, Broadstar, Sureguard	>5000	4	4
Fluometuron	Cotoran	8900	5	5
Fluridone	Sonar	>10000	5	4-5
Fluroxypyr	Vista	3738	4	3-4
Fomesafen	Reflex	6570	5	4
Fosamine	Krenite	>5000	6	4
Gasoline	Various brands	--	3	--
Glufosinate	Liberty, Finale	1910	4	4
Glyphosate	Roudup, others	5400	5	5
Glyphosine	Polaris	1950	4	5
Halosulfuron-methyl	Permit, Manage	8866	5	5
Hexazinone	Velpar	1690	4	5
Imazamethabenz-methyl	Assert	2679	4	5
Imazapyr	Arsenal, Chopper, Contain	>5000	5	5
Imazaquin	Scepter, Image	>5000	5	4-5
Imazamox	Beyond, Raptor	>5000	5	5
Imazethapyr	Pursuit	>5000	5	4
Isopropalin	Paarlan	>5000	5	3-4
Kerosene	Various brands	--	2-3	--
KOCN	Various brands	85	3	--
Lactofen	Cobra	2533	4	4
Linuron	Lorox	1196	4	5
MAMA	Ansar, Methar	720	4	--

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MCPA	Various brands	700	4	4
Mecoprop	Mecoprop, Mecopex	650	4	--
Mesosulfuron-methyl	Osprey	>2000	4	4
Metham	Vapam	820	4	820
Methyl bromide	Various brands	17 ppm air	2	1
Metolachlor	Dual	2534	4	3-4
Metribuzin	Sencor, Lexone	1200	4	5
Metsulfuron	Ally, Escort XP, Manor	>5000	5	5
MH (amine)	MH-30	3900	4	5
Molinate	Ordram	584	4	4
Monuron	Telvar	3600	4	5
Monuron + TCA	Urox	2300	4	--
MSMA	Weed-E-Rad, Ansar	700	4	--
Nicosulfuron	Accent	>5000	5	4
Nitralin	Planavin	5000	5	5
Nitrofen	Tok E-25	2630	4	--
Norea	Herban	2500	4	--
Norflurazon	Zorial, Solicam	>8000	5	4
NPA	Alanap (Na. salt)	1770	4	5
Oryzalin	Surflan	>500	4	4
Oxadiazon	Ronstar	>5000	5	5
Oxyfluorfen	Goal	>5000	5	2-3
Paraquat	Gramoxone Max	138	3	2
PBA	Benzac, Zobar	960	4	--
PCP (Na. salt)	Weedbeads	210	3	1
Pebulate	Tillam	1120	4	--
Pelargonic acid	Scythe	5000	5	2-3
Pendimethalin	Prowl, Pendulum	2679	4	4
Petroleum solvents	Various brands	-	4	1
Picloram	Tordon	8200	5	--
PMA	PMAS, Tat-C-Lect	40	2	2
Primisulfuron	Beacon	>5000	5	4
Prodiamine	Barricade	15380	6	5
Prometone	Parmitol	2276	4	--
Prometryne	Caparol	3750	4	--
Pronamide	Kerb	5620	5	4
Propachlor	Ramrod	1900	4	1,3
Propanil	Stam F-34, Rogue	1384	4	3-4
Propazine	Milogard	>5000	4	--
Prosulfuron	Peak, Exceed	986	4	--
Pyriclor	Daxtron	80	3	5
Pyridate	Tough	4690	4	4

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Pyrithiobac-sodium	Staple LX	4000	4	5
Quinclorac	Facet, Drive	>2610	4	5
Quizalofop	Assure	1480	4	3-4
Rimsulfuron	Basis	>5000	5	55
Sethoxydim	Poast, Vantage	2676	4	3-4
Sesone	Sesone	1000	4	--
Siduron	Tupersan	7500	5	4
Silvex	Kuron, Weedone-TP	500	4	4
Simazine	Princep	5000	4	5
SMDC	Vapam	820	4	3
Sodium arsenate	Atlas A, Triox	10	2	1,2
Sodium Chlorate	DeFol, Atlacide	12000	5	4
Solan	Solan	10000	5	--
Sulfentrazone	Authority	2689	4	4
Sulfometuron	Oust XP	>5000	5	4
Sulfosate	Touchdown	748	4	--
Sulfosulfuron	Outrider, Maverick	>5000	5	5
TABLE SALT	(For comparison)	3320	4	5
TCA	Various brands	3370	4	2
Tebuthiuron	Spike	400	3	4
Terbacil	Sinbar	5000	5	5
Terbutol	Azak	34600	6	--
Thiazopyr	Mandate, Visor	>5000	5	5
Thifensulfuron	Pinnacle	>5000	5	5
Thiobencarb	Bolero	920	4	4
Toxynil	Centrol, Bentrol	305	3	--
Tri-allate	Avadex BW	1675	4	4
Triclopyr	Garlon	2140	4	4-5
Tridiphane	Tandem	1743	4	--
Trifloxysulfuron-sodium	Envoke	>5000	5	5
Trifluralin	Treflan	500	4	--
Vernolate	Vernam	1780	4	--