Emergency Removal Guidelines

To help resolve incongruities in the screening process for determination of the necessity for removal actions, the EPA Region III Technical Support Section has developed the following list of emergency removal trigger guidelines. This list was designed for use only as a screening tool to aid RPMs and OSCs in the characterization of emergency threats associated with uncontrolled hazardous waste sites. This list is by no means intended to be the sole foundation for cleanup decisions. Rather, it is meant to function as just one of many sources of information that the decision maker should rely upon. Users of earlier editions of this handbook will note that the guidelines have been considerably revised, due to changes in the model used to generate the numeric values.

Toxicological values are listed in this table as absolute concentrations. That is, no calculations or manipulations of these values are necessary to use this list. To use this list, simply compare data from sampling analyses to concentrations on the list. If the results of an analysis are slightly below, equal to, or above the values listed in the table, then there is a possibility that an emergency health threat may be present at that particular site. In any situation involving the possibility of an emergency health threat, an EPA toxicologist should be consulted.

The toxicological values on this list were obtained through extensive research and evaluation of toxicological data bases, compiled through toxicity testing of the compounds, epidemiological studies, actual exposure incidences (i.e., workplace exposure, suicide attempts, accidental poisonings), and past experiences of the agency. Values derived from this broad range of investigative methods undergo review and verification before they are permitted to be published. This list, therefore, represents the most recent advances in toxicological determination and risk assessment.

We must emphasize, however, that this list has not undergone extensive peer review. It is intended for internal use only and should not be considered as EPA policy. Field personnel should use caution when referring to this list in any way that may imply EPA's endorsement of these values.

Assumptions Used in Calculating the Reference Levels

As the toxicology section of this guide explains, there is biological variation in all human populations, causing variation in the individual response to a particular dose of a toxin. Therefore, even though the response of the total population is predictable, the response of any one person within the exposed population is unpredictable. Certain assumptions about biological variation must be made to develop response models to assess risk and to predict response. The following assumptions are the basis of the model used to develop the reference values that begin on page 54:

- Carcinogen levels correspond to an upper bound lifetime risk of 1×10^{-4}. Noncarcinogen levels correspond to a hazard quotient of 10. The hazard quotient for drinking water is 1.

- Exposure comes from a single medium, except in the case of drinking water. In this case, concentrations are based on both intake of drinking water and inhalation of vapors, where appropriate.

- Exposure to residents continues for 30 years, but toxic effects from noncarcinogens may occur in as little as one year.

- For calculation purposes, adults weigh 70 kilograms and children weigh 15 kilograms; the life span is 70 years.

- Soil levels include only ingestion exposure; they omit inhalation and dermal contact.

- The amount of drinking water ingested is 2 liters per day. Compounds with Henry's Law constants greater than 10^{-4} atm m^3/mol are substantially volatilized during household tap water use. Each ug/l in water produces an indoor air concentration of 0.5 ug/m^3.

- Residential soil exposure for adults is based on consumption of 100 milligrams of soil per day, for 30 years. Consumption by children is 200 milligrams per day for 6 years.

- Industrial soil exposure is based on consumption of 100 milligrams of soil per day, 250 days per year, for 25 years.

- Adults inhale 20 cubic meters of air per day.

- Fish ingestion is 54 grams per day.

- These criteria are based on long-term exposure periods. Exposure to higher doses of toxic materials may produce adverse effects within a much shorter time frame, i.e., within days or weeks.

NOTE: When the numerical values were generated from the model, no attempt was made to stop a calculation greater than the total concentration. This means, for example, that if a compound has a worker soil ingestion value over 1 million mg/kg (1 million parts per million), then from an emergency perspective the compound does not pose a toxic threat to workers via soil ingestion. Values over the total concentration are useful in comparing the relative toxicity of several compounds, so they were kept in place.

NOTE: The Risk-Based Concentration (RBC) Table is updated annually. Use the latest version of the RBC Table in calculating emergency removal guidelines.

Following the list of emergency removal trigger guidelines is the list of removal numeric action levels for contaminated drinking water sites. This list was prepared by the U.S. EPA Office of Solid Waste and Emergency Response, Emergency Response Division and released in March 1995. The list reflects EPA and oral toxicity data and associated health criteria available for the listed chemicals. The toxicity data has been obtained from EPA's Integrated Risk Information System (IRIS), and EPA's Health Effects Assessment Summary Tables (HEAST).

EMERGENCY REMOVAL GUIDELINES 1997 Technical Support Section Region III (3HW41) 841 Chestnut Street Philadelphia, Pennsylvania 19107	
Exposure Variables	Value
1 - General:	
Carcinogenic potency slope oral (kg-d/mg):	*
Carcinogenic potency slope inhaled (kg-d/mg):	*
Reference dose oral (mg/kg/d):	*
Reference dose inhaled (mg/kg/d):	*
Target cancer risk:	1E-04
Target hazard quotient:	10
Body weight, adult (kg):	70
Body weight, age 1 - 6 (kg):	15
Averaging time carcinogens (d):	25550
Averaging time non-carcinogens (d):	ED*365
Air inhaled, adult (m^3/d):	20
Air inhaled, age 1 - 6 (m^3/d):	12

EMERGENCY REMOVAL GUIDELINES
1997
Technical Support Section
Region III (3HW41)
841 Chestnut Street
Philadelphia, Pennsylvania 19107

Exposure Variables	Value
Inhalation factor, age adjusted (m^3-y/kg-d):	11.66
Tap water ingested, adult (L/d):	2
Tap water ingested, age 1 - 6 (L/d):	1
Tap water ingestion factor, age adjusted (L-y/kg-d):	1.09
Fish ingested (g/d):	54
Soil ingested, adult (mg/d):	100
Soil ingested, age 1 - 6 (md/d):	200
Soil ingestion factor, age adjusted (mg-y/kg-d):	114.29
2 - Residential:	
Exposure frequency (d/y):	350
Exposure duration, (total)(y):	30
Exposure duration, age 1 - 6 (y):	6
Volatilization factor (L/m^3):	0.5
3 - Occupational:	
Exposure frequency (d/y):	250
Exposure duration (y):	25
Fraction of contaminated soil ingested (unitless):	0.5
* = Contaminant-specific toxicity parameters	

Contaminant	C=carcinogen N=noncarcinogen				
	Tap Water	Ambient Ambient Air	Fish	Soil	
				Industrial/ Commerical	Residential
	ug/L	ug/m3	mg/kg	mg/kg	mg/kg
Acephate	770 C	72 C	36 C	66000 C	7300 C
Acetaldehyde	94 N	81 C	0	0	0
Acetochlor	730 N	730 N	270 N	410000 N	16000 N
Acetone	3700 N	3700 N	1400 N	2000000 N	78000 N
Acetone cyanohydrin	2600 N	1500 N	950 N	1400000 N	55000 N
Acetonitrile	220 N	520 N	81 N	120000 N	4700 N
Acetophenone	0.042 N	0.21 N	1400 N	1000000 N	78000 N
Acifluorfen	470 N	470 N	180 N	270000 N	10000 N
Acrolein	730 N	0.21 N	270 N	410000 N	16000 N
Acrylamide	1.5 C	0.14 C	0.07 C	130 C	14 C
Acrylic acid	18000 N	10 N	6800 N	1000000 N	390000 N
Acrylonitrile	12 C	2.6 C	0.58 C	1100 C	120 C
Alachlor	84 C	7.8 C	3.9 C	7200 C	800 C
Alar	5500 N	5500 N	2000 N	1000000 N	120000 N
Aldicarb	37 N	37 N	14 N	20000 N	780 N
Aldicarb sulfone	37 N	37 N	14 N	20000 N	780 N
Aldrin	0.4 C	0.037 C	0.019 C	34 C	3.8 C
Ally	9100 N	9100 N	3400 N	1000000 N	200000 N
Allyl alcohol	180 N	180 N	68 N	100000 N	3900 N
Allyl chloride	1800 N	10 N	680 N	1000000 N	39000 N
Aluminum	37000 N	37000 N	14000 N	1000000 N	780000 N
Aluminum phosphide	15 N	15 N	5.4 N	8200 N	310 N
Amdro	11 N	11 N	4.1 N	6100 N	230 N
Ametryn	330 N	330 N	120 N	180000 N	7000 N
m-Aminophenol	2600 N	2600 N	950 N	1000000 N	55000 N
4-Aminopyridine	0.73 N	0.73 N	0.27 N	410 N	16 N
Amitraz	91 N	91 N	34 N	51000 N	2000 N
Ammonia	1000 N	1000 N	0	0	0
Ammonium sulfamate	7300 N	7300 N	2700 N	1000000 N	160000 N
Aniline	10 N	10 N	55 C	100000 C	11000 C
Antimony and compounds	15 N	15 N	5.4 N	8200 N	310 N
Antimony pentoxide	18 N	18 N	6.8 N	10000 N	390 N
Antimony potassium tartrate	33 N	33 N	12 N	18000 N	700 N
Antimony tetroxide	15 N	15 N	5.4 N	8200 N	310 N
Antimony trioxide	15 N	15 N	5.4 N	8200 N	310 N
Apollo	470 N	470 N	180 N	270000 N	10000 N
Aramite					

Contaminant	C=carcinogen		N=noncarcinogen		
	Tap Water	Ambient Ambient Air	Fish	Soil	
				Industrial/ Commerical	Residential
	ug/L	ug/m3	mg/kg	mg/kg	mg/kg
Arsenic	11 N	11 N	4.1 N	6100 N	230 N
Arsenic (as carcinogen)	4.5 C	0.041 C	0.21 C	380 C	43 C
Arsine	0.52 N	0.52 N	0	0	0
Assure	330 N	330 N	120 N	180000 N	7000 N
Asulam	1800 N	1800 N	680 N	1000000 N	39000 N
Atrazine	30 C	2.8 C	1.4 C	2600 C	290 C
Avermectin B1	15 N	15 N	5.4 N	8200 N	310 N
Azobenzene	61 C	5.8 C	2.9 C	5200 C	580 C
Barium and compounds	2600 N	5.2 N	950 N	1000000 N	55000 N
Baygon	150 N	150 N	54 N	82000 N	3100 N
Bayleton	1100 N	1100 N	410 N	610000 N	23000 N
Baythroid	910 N	910 N	340 N	510000 N	20000 N
Benefin	11000 N	11000 N	4100 N	1000000 N	230000 N
Benomyl	1800 N	1800 N	680 N	1000000 N	39000 N
Bentazon	91 N	91 N	34 N	51000 N	2000 N
Benzaldehyde	610 N	3700 N	1400 N	1000000 N	78000 N
Benzene	36 C	22 C	11 C	20000 C	2200 C
Benzenethiol	0.37 N	0.37 N	0.14 N	200 N	7.8 N
Benzidine	0.029 C	0.0027 C	0.0014 C	2.5 C	0.28 C
Benzoic acid	150000 N	150000 N	54000 N	1000000 N	1000000 N
Benzotrichloride	0.52 C	0.048 C	0.024 C	44 C	4.9 C
Benzyl alcohol	11000 N	11000 N	4100 N	1000000 N	230000 N
Benzyl chloride	6.2 C	3.7 C	1.9 C	3400 C	380 C
Beryllium and compounds	1.6 C	0.075 C	0.073 C	130 C	15 C
Bidrin	3.7 N	3.7 N	1.4 N	2000 N	78 N
Biphenthrin (Talstar)	550 N	550 N	200 N	310000 N	12000 N
1,1-Biphenyl	1800 N	1800 N	680 N	1000000 N	39000 N
Bis(2-chloroethyl)ether	0.92 C	0.54 C	0.29 C	520 C	58 C
Bis(2-chloroisopropyl)ether	26 C	18 C	4.5 C	8200 C	910 C
Bis(chloromethyl)ether	0.0049 C	0.0029 C	0.0014 C	2.6 C	0.29 C
Bis(2-chloro-1-methylethyl)ether	96 C	8.9 C	4.5 C	8200 C	910 C
Bis(2-ethylhexyl)phthalate (DEHP)	480 C	45 C	23 C	41000 C	4600 C
Bisphenol A	1800 N	1800 N	680 N	1000000 N	39000 N
Boron (and borates)	3300 N	210 N	1200 N	1000000 N	70000 N
Boron trifluoride	7.3 N	7.3 N	0	0	0
Bromodichloromethane	17 C	10 C	5.1 C	9200 C	1000 C

Contaminant	C = carcinogen N = noncarcinogen				
	Tap Water	Ambient Ambient Air	Fish	Soil	
				Industrial/ Commerical	Residential
	ug/L	ug/m3	mg/kg	mg/kg	mg/kg
Bromoform (tribromomethane)	240 C	160 C	40 C	72000 C	8100 C
Bromomethane	8.7 N	52 N	19 N	29000 N	1100 N
4-Bromophenyl phenyl ether	2100 N	2100 N	780 N	1000000 N	45000 N
Bromophos	180 N	180 N	68 N	100000 N	3900 N
Bromoxynil	730 N	730 N	270 N	410000 N	16000 N
Bromoxynil octanoate	730 N	730 N	270 N	410000 N	16000 N
1,3-Butadiene	1.1 C	0.64 C	0	0	0
1-Butanol	3700 N	3700 N	1400 N	1000000 N	78000 N
Butyl benzyl phthalate	7300 N	7300 N	2700 N	1000000 N	160000 N
Butylate	1800 N	1800 N	680 N	1000000 N	39000 N
sec-Butylbenzene	61 N	370 N	140 N	200000 N	7800 N
tert-Butylbenzene	61 N	370 N	140 N	200000 N	7800 N
Butylphthalyl butylglycolate	37000 N	37000 N	14000 N	1000000 N	780000 N
Cacodylic acid	110 N	110 N	41 N	61000 N	2300 N
Cadmium and compounds	18 N	0.099 C	6.8 N	10000 N	390 N
Caprolactam	18000 N	18000 N	6800 N	1000000 N	390000 N
Captafol	780 C	73 C	37 C	67000 C	74 C
Captan	1900 C	180 C	90 C	160000 C	18000 C
Carbaryl	3700 N	3700 N	1400 N	1000000 N	78000 N
Carbofuran	180 N	180 N	68 N	100000 N	3900 N
Carbon disulfide	1000 N	7300 N	1400 N	1000000 N	78000 N
Carbon tetrachloride	16 C	12 C	2.4 C	4400 C	490 C
Carbosulfan	370 N	370 N	140 N	200000 N	7800 N
Carboxin	3700 N	3700 N	1400 N	1000000 N	78000 N
Chloral	73 N	73 N	27 N	41000 N	1600 N
Chloramben	550 N	550 N	200 N	310000 N	12000 N
Chloranil	17 C	1.6 C	0.78 C	1400 C	160 C
Chlordane	5.2 C	0.49 C	0.24 C	440 C	49 C
Chlorimuron-ethyl	730 N	730 N	270 N	410000 N	16000 N
Chlorine	3700 N	3700 N	1400 N	1000000 N	78000 N
Chlorine dioxide	2.1 N	2.1 N	0	0	0
Chloroacetaldehyde	250 N	250 N	93 N	140000 N	5400 N
Chloroacetic acid	73 N	73 N	27 N	41000 N	1600 N
2-Chloroacetophenone	0.31 N	0.31 N	0	0	0
4-Chloroaniline	150 N	150 N	54 N	82000 N	3100 N
Chlorobenzene	39 N	210 N	270 N	410000 N	16000 N

Contaminant	C = carcinogen N = noncarcinogen				
	Tap Water	Ambient Ambient Air	Fish	Soil	
				Industrial/ Commerical	Residential
	ug/L	ug/m3	mg/kg	mg/kg	mg/kg
p-Chlorobenzoic acid	7300 N	7300 N	2700 N	1000000 N	160000 N
4-Chlorobenzotrifluoride	730 N	730 N	270 N	410000 N	16000 N
2-Chloro-1,3-butadiene	14 N	73 N	270 N	410000 N	16000 N
1-Chlorobutane	2400 N	15000 N	5400 N	1000000 N	310000 N
Chlorodibromomethane	13 C	7.5 C	3.8 C	6800 C	760 C
1-Chloro-1,1-difluoroethane	87000 N	520000 N	0	0	0
Chlorodifluoromethane	87000 N	520000 N	0	0	0
Chloroethane	8600 N	100000 N	5400 N	1000000 N	310000 N
2-Chloroethyl vinyl ether	150 N	910 N	340 N	510000 N	20000 N
Chloroform	15 C	7.8 C	52 C	94000 C	7800 N
Chloromethane	140 C	99 C	24 C	44000 C	4900 C
4-Chloro-2,2-methylaniline hydrochloride	15 C	1.4 C	0.69 C	1200 C	140 C
4-Chloro-2-methylaniline	12 C	1.1 C	0.54 C	990 C	110 C
beta-Chloronaphthalene	2900 N	2900 N	1100 N	1000000 N	63000 N
o-Chloronitrobenzene	42 C	25 C	13 C	23000 C	2600 C
p-Chloronitrobenzene	59 C	35 C	18 C	32000 C	3500 C
2-Chlorophenol	180 N	180 N	68 N	100000 N	3900 N
2-Chloropropane	170 N	1000 N	0	0	0
Chlorothalonil	610 C	57 C	29 C	52000 C	5800 C
o-Chlorotoluene	120 N	730 N	270 N	410000 N	16000 N
Chlorpropham	7300 N	7300 N	2700 N	1000000 N	160000 N
Chlorpyrifos	110 N	110 N	41 N	61000 N	2300 N
Chlorpyrifos-methyl	370 N	370 N	140 N	200000 N	7800 N
Chlorsulfuron	1800 N	1800 N	680 N	1000000 N	39000 N
Chlorthiophos	29 N	29 N	11 N	16000 N	630 N
Chromium III and compounds	37000 N	0.021 N	14000 N	1000000 N	780000 N
Chromium VI and compounds	180 N	0.015 C	68 N	100000 N	3900 N
Coal tar	0	0.28 C	0	0	0
Cobalt	2200 N	2200 N	810 N	1000000 N	47000 N
Coke Oven Emissions	0	0.29 C	0	0	0
Copper and compounds	1500 N	1500 N	540 N	820000 N	31000 N
Crotonaldehyde	3.5 C	0.33 C	0.17 C	300 C	34 C
Cumene	1500 N	94 N	540 N	820000 N	31000 N
Cyanides:	0	0	0	0	0
Barium cyanide	3700 N	3700 N	1400 N	1000000 N	78000 N
Calcium cyanide	1500 N	1500 N	540 N	820000 N	31000 N

Contaminant	C=carcinogen N=noncarcinogen				
	Tap Water	Ambient Ambient Air	Fish	Soil Industrial/ Commerical	Soil Residential
	ug/L	ug/m3	mg/kg	mg/kg	mg/kg
Copper cyanide	180 N	180 N	68 N	100000 N	3900 N
Cyanazine	8 C	0.75 C	0.38 C	680 C	76 C
Cyanogen	1500 N	1500 N	540 N	820000 N	31000 N
Cyanogen bromide	3300 N	3300 N	1200 N	1000000 N	70000 N
Cyanogen chloride	1800 N	1800 N	680 N	1000000 N	39000 N
Free cyanide	730 N	730 N	270 N	410000 N	16000 N
Hydrogen cyanide	730 N	31 N	270 N	410000 N	16000 N
Potassium cyanide	1800 N	1800 N	680 N	1000000 N	39000 N
Potassium silver cyanide	7300 N	7300 N	2700 N	1000000 N	160000 N
Silver cyanide	3700 N	3700 N	1400 N	1000000 N	78000 N
Sodium cyanide	1500 N	1500 N	540 N	820000 N	31000 N
Thiocyanate	730 N	730 N	270 N	410000 N	16000 N
Zinc cyanide	1800 N	1800 N	680 N	1000000 N	39000 N
Cyclohexanone	30000 N	180000 N	68000 N	1000000 N	1000000 N
Cyclohexlamine	7300 N	7300 N	2700 N	1000000 N	160000 N
Cyhalothrin/Karate	180 N	180 N	68 N	100000 N	3900 N
Cypermethrin	370 N	370 N	140 N	200000 N	7800 N
Cyromazine	270 N	270 N	100 N	150000 N	5900 N
Dacthal	370 N	370 N	140 N	200000 N	7800 N
Dalapon	1100 N	1100 N	410 N	610000 N	23000 N
Danitol	910 N	910 N	340 N	510000 N	20000 N
DDD	28 C	2.6 C	1.3 C	2400 C	270 C
DDE	20 C	1.8 C	0.93 C	1700 C	190 C
DDT	20 C	1.8 C	0.93 C	1700 C	190 C
Decabromodiphenyl ether	61 N	370 N	140 N	200000 N	7800 N
Demeton	1.5 N	1.5 N	0.54 N	820 N	31 N
Diallate	17 C	10 C	5.2 C	9400 C	1000 C
Diazinon	33 N	33 N	12 N	18000 N	700 N
Dibenzofuran	150 N	150 N	54 N	82000 N	3100 N
1,4-Dibromobenzene	61 N	370 N	140 N	200000 N	7800 N
1,2-Dibromo-3-chloropropane	4.8 C	2.1 N	0.23 C	410 C	46 C
1,2-Dibromoethane	0.075 C	0.81 C	0.0037 C	6.7 C	0.75 C
Dibutyl phthalate	3700 N	3700 N	1400 N	1000000 N	78000 N
Dicamba	1100 N	1100 N	410 N	610000 N	23000 N
1,2-Dichlorobenzene	270 N	1500 N	1200 N	1000000 N	70000 N
1,3-Dichlorobenzene	540 N	3200 N	1200 N	1000000 N	70000 N

Contaminant	C=carcinogen N=noncarcinogen				
	Tap Water	Ambient Ambient Air	Fish	Soil Industrial/ Commerical	Soil Residential
	ug/L	ug/m3	mg/kg	mg/kg	mg/kg
3,3'-Dichlorobenzidine	15 C	1.4 C	0.7 C	1300 C	140 C
1,4-Dichloro-2-butene	0.11 C	0.067 C	0	0	0
Dichlorodifluoromethane	390 N	2100 N	2700 N	1000000 N	160000 N
1,1-Dichloroethane	810 N	5200 N	1400 N	1000000 N	78000 N
1,2-Dichloroethane (EDC)	12 C	6.9 C	3.5 C	6300 C	700 C
1,1-Dichloroethylene	4.4 C	3.6 C	0.53 C	950 C	110 C
1,2-Dichloroethylene (cis)	61 N	370 N	140 N	200000 N	7800 N
1,2-Dichloroethylene (trans)	120 N	730 N	270 N	410000 N	16000 N
1,2-Dichloroethylene (mixture)	55 N	330 N	120 N	180000 N	7000 N
2,4-Dichlorophenol	110 N	110 N	41 N	61000 N	2300 N
2,4-Dichlorophenoxyacetic Acid (2,4-D)	61 N	370 N	140 N	200000 N	7800 N
4-(2,4-Dichlorophenoxy)butyric Acid	290 N	290 N	110 N	160000 N	6300 N
1,2-Dichloropropane	16 C	9.2 C	4.6 C	8400 C	940 C
2,3-Dichloropropanol	110 N	110 N	41 N	61000 N	2300 N
1,3-Dichloropropene	7.7 C	4.8 C	1.8 C	3300 C	230 N
Dichlorvos	23 C	2.2 C	1.1 C	2000 C	220 C
Dicofol	15 C	1.4 C	0.72 C	1300 C	150 C
Dicyclopentadiene	0.42 N	2.1 N	410 N	610000 N	23000 N
Dieldrin	0.42 C	0.039 C	0.02 C	36 C	4 C
Diesel emissions	52 N	52 N	0	0	0
Diethyl phthalate	29000 N	29000 N	11000 N	1000000 N	630000 N
Diethylene glycol, monobutyl ether	210 N	210 N	0	0	0
Diethylene glycol, monoethyl ether	73000 N	73000 N	27000 N	1000000 N	1000000 N
Diethylformamide	400 N	400 N	150 N	220000 N	8600 N
Di(2-ethylhexyl)adipate	5600 C	520 C	260 C	480000 C	53000 C
Diethylstilbestrol	0.0014 C	0.00013 C	0.000067 C	0.12 C	0.014 C
Difenzoquat (Avenge)	2900 N	2900 N	1100 N	1000000 N	63000 N
Diflubenzuron	730 N	730 N	270 N	410000 N	16000 N
1,1-Difluoroethane	69000 N	420000 N	0	0	0
Diisopropyl methylphosphonate (DIMP)	2900 N	2900 N	1100 N	1000000 N	63000 N
Dimethipin	730 N	730 N	270 N	410000 N	16000 N
Dimethoate	7.3 N	7.3 N	2.7 N	4100 N	160 N
3,3'-Dimethoxybenzidine	480 C	45 C	23 C	41000 C	4600 C
Dimethylamine	0.21 N	0.21 N	0	0	0
2,4-Dimethylaniline hydrochloride	12 C	1.1 C	0.54 C	990 C	110 C
2,4-Dimethylaniline	9 C	0.83 C	0.42 C	760 C	85 C

Contaminant	C = carcinogen Tap Water ug/L	N = noncarcinogen Ambient Ambient Air ug/m3	Fish mg/kg	Soil Industrial/ Commerical mg/kg	Soil Residential mg/kg
3,3'-Dimethylbenzidine	0.73 C	0.068 C	0.034 C	62 C	6.9 C
N,N-Dimethylformamide	3700 N	310 N	1400 N	1000000 N	78000 N
1,1-Dimethylhydrazine	2.6 C	0.18 C	0.12 C	220 C	25 C
1,2-Dimethylhydrazine	0.18 C	0.017 C	0.0085 C	15 C	1.7 C
2,4-Dimethylphenol	730 N	730 N	270 N	410000 N	16000 N
2,6-Dimethylphenol	22 N	22 N	8.1 N	12000 N	470 N
3,4-Dimethylphenol	37 N	37 N	14 N	20000 N	780 N
Dimethyl phthalate	370000 N	370000 N	140000 N	1000000 N	1000000 N
Dimethyl terephthalate	3700 N	3700 N	1400 N	1000000 N	78000 N
1,2-Dinitrobenzene	15 N	15 N	5.4 N	8200 N	310 N
1,3-Dinitrobenzene	3.7 N	3.7 N	1.4 N	2000 N	78 N
1,4-Dinitrobenzene	15 N	15 N	5.4 N	8200 N	310 N
4,6-Dinitro-o-cyclohexyl phenol	73 N	73 N	27 N	41000 N	1600 N
2,4-Dinitrophenol	73 N	73 N	27 N	41000 N	1600 N
Dinitrotoluene mixture	9.9 C	0.92 C	0.46 C	840 C	94 C
2,4-Dinitrotoluene	73 N	73 N	27 N	41000 N	1600 N
2,6-Dinitrotoluene	37 N	37 N	14 N	20000 N	780 N
Dinoseb	37 N	37 N	14 N	20000 N	780 N
di-n-Octyl phthalate	730 N	730 N	270 N	410000 N	16000 N
1,4-Dioxane	610 C	57 C	29 C	52000 C	5800 C
Diphenamid	1100 N	1100 N	410 N	610000 N	23000 N
Diphenylamine	910 N	910 N	340 N	510000 N	20000 N
1,2-Diphenylhydrazine	8.4 C	0.81 C	0.39 C	720 C	80 C
Diquat	80 N	80 N	30 N	45000 N	1700 N
Direct black 38	0.76 C	0.073 C	0.037 C	67 C	7.4 C
Direct blue 6	0.83 C	0.077 C	0.039 C	71 C	7.9 C
Direct brown 95	0.72 C	0.067 C	0.034 C	62 C	6.9 C
Disulfoton	1.5 N	1.5 N	0.54 N	820 N	31 N
1,4-Dithiane	370 N	370 N	140 N	200000 N	7800 N
Diuron	73 N	73 N	27 N	41000 N	1600 N
Dodine	150 N	150 N	54 N	82000 N	3100 N
Endosulfan	220 N	220 N	81 N	120000 N	4700 N
Endothall	730 N	730 N	270 N	410000 N	16000 N
Endrin	11 N	11 N	4.1 N	6100 N	230 N
Epichlorohydrin	680 C	10 N	32 C	58000 C	6500 C
1,2-Epoxybutane	210 N	210 N	0	0	0

Contaminant	C = carcinogen Tap Water ug/L	N = noncarcinogen Ambient Ambient Air ug/m3	Fish mg/kg	Soil Industrial/ Commerical mg/kg	Residential mg/kg
Ethion	18 N	18 N	6.8 N	10000 N	390 N
2-Ethoxyethanol acetate	11000 N	11000 N	4100 N	1000000 N	230000 N
2-Ethoxyethanol	15000 N	2100 N	5400 N	1000000 N	310000 N
Ethyl acrylate	140 C	13 C	6.6 C	12000 C	1300 C
EPTC (S-Ethyl dipropylthiocarbamate)	910 N	910 N	340 N	510000 N	20000 N
Ethyl acetate	33000 N	33000 N	12000 N	1000000 N	700000 N
Ethylbenzene	1300 N	10000 N	1400 N	1000000 N	78000 N
Ethylene cyanohydrin	11000 N	11000 N	4100 N	1000000 N	230000 N
Ethylene diamine	730 N	730 N	270 N	410000 N	16000 N
Ethylene glycol	73000 N	73000 N	27000 N	1000000 N	1000000 N
Ethylene glycol, monobutyl ether	210 N	210 N	0	0	0
Ethylene oxide	6.6 C	1.8 C	0.31 C	560 C	63 C
Ethylene thiourea (ETU)	57 C	5.3 C	2.7 C	4800 C	540 C
Ethyl ether	1200 N	7300 N	2700 N	1000000 N	160000 N
Ethyl methacrylate	3300 N	3300 N	1200 N	1000000 N	70000 N
Ethyl p-nitrophenyl phenylphosphorothioate	0.37 N	0.37 N	0.14 N	200 N	7.8 N
Ethylnitrosourea	0.048 C	0.0045 C	0.0023 C	4.1 C	0.46 C
Ethylphthalyl ethyl glycolate	110000 N	110000 N	41000 N	1000000 N	1000000 N
Express	290 N	290 N	110 N	160000 N	6300 N
Fenamiphos	9.1 N	9.1 N	3.4 N	5100 N	200 N
Fluometuron	470 N	470 N	180 N	270000 N	10000 N
Fluoride	2200 N	2200 N	810 N	1000000 N	47000 N
Fluoridone	2900 N	2900 N	1100 N	1000000 N	63000 N
Flurprimidol	730 N	730 N	270 N	410000 N	16000 N
Flutolanil	2200 N	2200 N	810 N	1000000 N	47000 N
Fluvalinate	370 N	370 N	140 N	200000 N	7800 N
Folpet	1900 C	180 C	90 C	160000 C	18000 C
Fomesafen	35 C	3.3 C	1.7 C	3000 C	340 C
Fonofos	73 N	73 N	27 N	41000 N	1600 N
Formaldehyde	7300 N	14 C	2700 N	1000000 N	160000 N
Formic Acid	73000 N	73000 N	27000 N	1000000 N	1000000 N
Fosetyl-al	110000 N	110000 N	41000 N	1000000 N	1000000 N
Furan	37 N	37 N	14 N	20000 N	780 N
Furazolidone	1.8 C	0.16 C	0.083 C	150 C	17 C
Furfural	110 N	520 N	41 N	61000 N	2300 N
Furium	0.13 C	0.013 C	0.0083 C	11 C	1.3 C

Contaminant	C=carcinogen N=noncarcinogen				
	Tap Water	Ambient Ambient Air	Fish	Soil	
				Industrial/ Commerical	Residential
	ug/L	ug/m3	mg/kg	mg/kg	mg/kg
Glufosinate-ammonium	15 N	15 N	5.4 N	8200 N	310 N
Glycidaldehyde	15 N	10 N	5.4 N	8200 N	310 N
Glyphosate	3700 N	3700 N	1400 N	1000000 N	78000 N
Haloxyfop-methyl	1.8 N	1.8 N	0.68 N	1000 N	39 N
Harmony	470 N	470 N	180 N	270000 N	10000 N
HCH (alpha)	1.1 C	0.099 C	0.05 C	91 C	10 C
HCH (beta)	3.7 C	0.35 C	0.18 C	320 C	35 C
HCH (gamma) Lindane	5.2 C	0.48 C	0.24 C	440 C	49 C
HCH-technical	3.7 C	0.35 C	0.18 C	320 C	35 C
Heptachlor	0.23 C	0.14 C	0.07 C	130 C	14 C
Heptachlor epoxide	0.12 C	0.069 C	0.035 C	63 C	7 C
Hexabromobenzene	12 N	73 N	27 N	41000 N	1600 N
Hexachlorobenzene	0.66 C	0.39 C	0.2 C	360 C	40 C
Hexachlorobutadiene	14 C	8.1 C	4.0 C	7300 C	820 C
Hexachlorocyclopentadiene	0.15 N	0.73 N	95 N	140000 N	5500 N
Hexachlorodibenzo-p-dioxin mixture	0.0011 C	0.00014 C	0.000051 C	0.092 C	0.01 C
Hexachloroethane	75 C	45 C	23 C	410000 C	4600 C
Hexachlorophene	11 N	11 N	4.1 N	6100 N	230 N
Hexahydro-1,3,5-trinitro-1,3,5-triazine	61 C	5.7 C	2.9 C	5200 C	580 C
1,6-Hexamethylene diisocyanate	0.1 N	0.1 N	0	0	0
n-Hexane	350 N	2100 N	810 N	1000000 N	47000 N
Hexazinone	1200 N	1200 N	450 N	670000 N	26000 N
Hydrazine, hydrazine sulfate	2.2 C	0.037 C	0.11 C	190 C	21 C
Hydrogen chloride	210 N	210 N	0	0	0
Hydrogen sulfide	110 N	10 N	41 N	61000 N	2300 N
Hydroquinone	1500 N	1500 N	540 N	820000 N	31000 N
Imazalil	470 N	470 N	180 N	270000 N	10000 N
Imazaquin	9100 N	9100 N	3400 N	1000000 N	200000 N
Iprodione	1500 N	1500 N	540 N	820000 N	31000 N
Iron	11000 N	11000 N	4100 N	1000000 N	230000 N
Isobutanol	1800 N	11000 N	4100 N	1000000 N	230000 N
Isophorone	7100 C	660 C	330 C	600000 C	67000 C
Isopropalin	550 N	550 N	200 N	310000 N	12000 N
Isopropyl methyl phosphonic acid	3700 N	3700 N	1400 N	1000000 N	78000 N
Isoxaben	1800 N	1800 N	680 N	1000000 N	39000 N
Kepone	0.37 C	0.025 C	0.018 C	32 C	3.5 C

Contaminant	C = carcinogen Tap Water ug/L	Ambient Ambient Air ug/m3	N = noncarcinogen Fish mg/kg	Soil Industrial/ Commerical mg/kg	Residential mg/kg
Linuron	73 N	73 N	27 N	41000 N	1600 N
Lithium	730 N	730 N	270 N	410000 N	16000 N
Londax	7300 N	7300 N	2700 N	1000000 N	160000 N
Malathion	730 N	730 N	270 N	410000 N	16000 N
Maleic anhydride	3700 N	3700 N	1400 N	1000000 N	78000 N
Maleic hydrazide	18000 N	18000 N	6800 N	1000000 N	390000 N
Malononitrile	0.73 N	0.73 N	0.27 N	410 N	16 N
Mancozeb	1100 N	1100 N	410 N	610000 N	23000 N
Maneb	180 N	180 N	68 N	100000 N	3900 N
**Manganese and compounds	840 N	0.52 N	310 N	470000 N	18000 N
Mephosfolan	3.3 N	3.3 N	1.2 N	1800 N	70 N
Mepiquat chloride	1100 N	1100 N	410 N	610000 N	23000 N
Mercuric chloride	11 N	11 N	4.1 N	6100 N	230 N
Mercury (inorganic)	11 N	3.1 N	4.1 N	6100 N	230 N
Mercury (methyl)	3.7 N	3.7 N	1.4 N	2000 N	78 N
Merphos	1.1 N	1.1 N	0.41 N	610 N	23 N
Merphos oxide	1.1 N	1.1 N	0.41 N	610 N	23 N
Metalaxyl	2200 N	2200 N	810 N	1000000 N	47000 N
Methacrylonitrile	3.7 N	7.3 N	1.4 N	2000 N	78 N
Methamidophos	1.8 N	1.8 N	0.68 N	1000 N	39 N
Methanol	18000 N	18000 N	6800 N	1000000 N	390000 N
Methidathion	37 N	37 N	14 N	20000 N	780 N
Methomyl	910 N	910 N	340 N	510000 N	20000 N
Methoxychlor	180 N	180 N	68 N	100000 N	3900 N
2-Methoxyethanol acetate	73 N	73 N	27 N	41000 N	1600 N
2-Methoxyethanol	37 N	210 N	14 N	20000 N	780 N
2-Methoxy-5-nitroaniline	150 C	14 C	6.9 C	12000 C	1400 C
Methyl acetate	37000 N	37000 N	14000 N	1000000 N	780000 N
Methyl acrylate	1100 N	1100 N	410 N	610000 N	23000 N
2-Methylaniline hydrochloride	37 C	3.5 C	1.8 C	3200 C	350 C
2-Methylaniline	28 C	2.6 C	1.3 C	2400 C	270 C
Methyl chlorocarbonate	37000 N	37000 N	14000 N	1000000 N	780000 N
4-(2-Methyl-4-chlorophenoxy) butyric acid	370 N	370 N	140 N	200000 N	7800 N
2-Methyl-4-chlorophenoxyacetic acid	18 N	18 N	6.8 N	10000 N	390 N
2-(2-Methyl-14-chlorophenoxy)propionic acid	37 N	37 N	14 N	20000 N	780 N
Methylcyclohexane	31000 N	31000 N	0	0	0

	C = carcinogen N = noncarcinogen				
		Ambient		Soil	
	Tap Water	Ambient Air	Fish	Industrial/ Commerical	Residential
Contaminant	ug/L	ug/m3	mg/kg	mg/kg	mg/kg
Methylene chloride	410 C	380 C	42 C	76000 C	8500 C
4,4'-Methylene bis(2-chloroaniline)	52 C	4.8 C	2.4 C	4400 C	490 C
4,4'-Methylenebisbenzeneamine	27 C	2.5 C	1.3 C	2300 C	260 C
4,4'-Methylene bis(N,N'-dimethyl)aniline	150 C	14 C	6.9 C	12000 C	1400 C
4,4'-Methylenediphenyl isocyanate	0.035 N	0.21 N	0	0	0
Methyl ethyl ketone	1900 N	10000 N	8100 N	1000000 N	470000 N
Methyl hydrazine	6.1 C	0.57 C	0.29 C	520 C	58 C
Methyl isobutyl ketone	2900 N	840 N	1100 N	1000000 N	63000 N
Methyl methacrylate	2900 N	2900 N	1100 N	1000000 N	63000 N
2-Methyl-5-nitroaniline	200 C	19 C	9.6 C	17000 C	1900 C
Methyl parathion	9.1 N	9.1 N	3.4 N	5100 N	200 N
2-Methylphenol (o-cresol)	1800 N	1800 N	680 N	1000000 N	39000 N
3-Methylphenol (m-cresol)	1800 N	1800 N	680 N	1000000 N	39000 N
4-Methylphenol (p-cresol)	180 N	180 N	68 N	100000 N	3900 N
Methyl styrene (mixture)	60 N	420 N	81 N	120000 N	4700 N
Methyl styrene (alpha)	430 N	2600 N	950 N	1000000 N	55000 N
Methyl tertbutyl ether (MTBE)	180 N	31000 N	68 N	100000 N	3900 N
Metolaclor (Dual)	5500 N	5500 N	2000 N	1000000 N	120000 N
Metribuzin	910 N	910 N	340 N	510000 N	20000 N
Mirex	3.7 C	0.35 C	0.18 C	320 C	35 C
Molinate	73 N	73 N	27 N	41000 N	1600 N
Molybdenum	180 N	180 N	68 N	100000 N	3900 N
Monochloramine	3700 N	3700 N	1400 N	1000000 N	78000 N
Naled	73 N	73 N	27 N	41000 N	1600 N
2-Naphthylamine	0.052 C	0.0048 C	0.0024 C	4.4 C	0.49 C
Napropamide	3700 N	3700 N	1400 N	1000000 N	78000 N
Nickel refinery dust	0	0.75 C	0	0	0
Nickel and compounds	730 N	730 N	270 N	410000 N	16000 N
Nickel subsulfide	0	0.37 C	0	0	0
Nitrapyrin	55 N	55 N	20 N	31000 N	1200 N
Nitrate	58000 N	58000 N	22000 N	1000000 N	1000000 N
Nitric oxide	3700 N	3700 N	1400 N	1000000 N	78000 N
Nitrite	3700 N	3700 N	1400 N	1000000 N	78000 N
2-Nitroaniline	2.2 N	2.1 N	0.81 N	1200 N	47 N
3-Nitroaniline	110 N	110 N	41 N	61000 N	2300 N
4-Nitroaniline	110 N	110 N	41 N	61000 N	2300 N

	C=carcinogen N=noncarcinogen				
		Ambient		Soil	
	Tap Water	Ambient Air	Fish	Industrial/ Commerical	Residential
Contaminant	ug/L	ug/m3	mg/kg	mg/kg	mg/kg
Nitrofurantoin	2600 N	2600 N	950 N	1000000 N	55000 N
Nitrofurazone	4.5 C	0.067 C	0.21 C	380 C	43 C
Nitrogen dioxide	37000 N	37000 N	14000 N	1000000 N	780000 N
Nitroguanidine	3700 N	3700 N	1400 N	1000000 N	78000 N
4-Nitrophenol	2300 N	2300 N	840 N	1000000 N	48000 N
2-Nitropropane	210 N	0.067 C	0	0	0
N-Nitrosodi-n-butylamine	1.2 C	0.11 C	0.058 C	110 C	12 C
N-Nitrosodiethanolamine	2.4 C	0.22 C	0.11 C	200 C	23 C
N-Nitrosodiethylamine	0.045 C	0.0041 C	0.0021 C	3.8 C	0.43 C
N-Nitrosodimethylamine	0.13 C	0.013 C	0.0062 C	11 C	1.3 C
N-Nitrosodiphenylamine	1400 C	130 C	64 C	120000 C	13000 C
N-Nitroso di-n-propylamine	0.96 C	0.089 C	0.045 C	82 C	9.1 C
N-Nitroso-N-methylethylamine	0.31 C	0.028 C	0.014 C	26 C	2.9 C
N-Nitrosopyrrolidine	3.2 C	0.29 C	0.15 C	270 C	30 C
m-Nitrotoluene	61 N	370 N	140 N	200000 N	7800 N
o-Nitrotoluene	61 N	370 N	140 N	200000 N	7800 N
p-Nitrotoluene	61 N	370 N	140 N	200000 N	7800 N
Norflurazon	1500 N	1500 N	540 N	820000 N	31000 N
NuStar	26 N	26 N	9.5 N	14000 N	550 N
Octabromodiphenyl ether	110 N	110 N	41 N	61000 N	2300 N
Octahydro-1357-tetranitro-1357-tetrazocine	1800 N	1800 N	680 N	1000000 N	39000 N
Octamethylpyrophosphoramide	73 N	73 N	27 N	41000 N	1600 N
Oryzalin	1800 N	1800 N	680 N	1000000 N	39000 N
Oxadiazon	180 N	180 N	68 N	100000 N	3900 N
Oxamyl	910 N	910 N	340 N	510000 N	20000 N
Oxyfluorfen	110 N	110 N	41 N	61000 N	2300 N
Paclobutrazol	470 N	470 N	180 N	270000 N	10000 N
Paraquat	160 N	160 N	61 N	92000 N	3500 N
Parathion	220 N	220 N	81 N	120000 N	4700 N
Pebulate	1800 N	1800 N	680 N	1000000 N	39000 N
Pendimethalin	1500 N	1500 N	540 N	820000 N	31000 N
Pentabromo-6-chloro cyclohexane	290 C	27 C	14 C	25000 C	2800 C
Pentabromodiphenyl ether	73 N	73 N	27 N	41000 N	1600 N
Pentachlorobenzene	4.9 N	29 N	11 N	16000 N	630 N
Pentachloronitrobenzene	4.1 C	2.4 C	1.2 C	2200 C	250 C
Pentachlorophenol	56 C	5.2 C	2.6 C	4800 C	530 C

Contaminant	C=carcinogen N=noncarcinogen				
	Tap Water	Ambient Ambient Air	Fish	Soil	
				Industrial/ Commerical	Residential
	ug/L	ug/m3	mg/kg	mg/kg	mg/kg
Phenmedipham	9100 N	9100 N	3400 N	1000000 N	200000 N
Phenol	22000 N	22000 N	8100 N	1000000 N	470000 N
m-Phenylenediamine	220 N	220 N	81 N	120000 N	4700 N
p-Phenylenediamine	6900 N	6900 N	2600 N	1000000 N	150000 N
Phenylmercuric acetate	2.9 N	2.9 N	1.1 N	1600 N	63 N
2-Phenylphenol	3500 C	320 C	160 C	300000 C	33000 C
Phorate	7.3 N	7.3 N	2.7 N	4100 N	160 N
Phosmet	730 N	730 N	270 N	410000 N	16000 N
Phosphine	11 N	3.1 N	4.1 N	6100 N	230 N
Phosphoric acid	100 N	100 N	0	0	0
Phosphorus (white)	0.73 N	0.73 N	0.27 N	410 N	16 N
p-Phthalic acid	37000 N	37000 N	14000 N	1000000 N	780000 N
Phthalic anhydride	73000 N	1300 N	27000 N	1000000 N	1000000 N
Picloram	2600 N	2600 N	950 N	1000000 N	55000 N
Pirimiphos-methyl	370 N	370 N	140 N	200000 N	7800 N
Polybrominated biphenyls	0.76 C	0.07 C	0.035 C	64 C	5.5 N
Polychlorinated biphenyls (PCBs)	3.35 C	0.313 C	0.160 C	286 C	31.9 C
Aroclor 1016	2.6 N	2.6 N	0.95 N	1400 N	55 N
Aroclor 1254	0.73 N	0.73 N	0.27 N	410 N	16 N
Polychlorinated terphenyls (PCTs)	1.5 C	0.14 C	0.07 C	130 C	14 C
Polynuclear aromatic hydrocarbons	0	0	0	0	0
Acenaphthene	2200 N	2200 N	810 N	1000000 N	47000 N
Anthracene	11000 N	11000 N	4100 N	1000000 N	230000 N
Benz[a]anthracene	9.2 C	1 C	0.43 C	780 C	88 C
Benzo[b]fluoranthene	9.2 C	1 C	0.43 C	780 C	88 C
Benzo[k]fluoranthene	92 C	10 C	4.3 C	7800 C	870 C
Benzo[a]pyrene	0.92 C	0.1 C	0.043 C	78 C	8.8 C
Carbazole	340 C	31 C	16 C	29000 C	3200 C
Chrysene	920 C	100 C	43 C	78000 C	8700 C
Dibenz[ah]anthracene	0.92 C	0.1 C	0.043 C	78 C	8.8 C
Fluoranthene	1500 N	1500 N	540 N	820000 N	31000 N
Fluorene	1500 N	1500 N	540 N	820000 N	31000 N
Indeno[1,2,3-cd]pyrene	9.2 C	1 C	0.43 C	780 C	88 C
Naphthalene	1500 N	1500 N	540 N	820000 N	31000 N
Pyrene	1100 N	1100 N	410 N	610000 N	23000 N
Prochloraz	45 C	4.2 C	2.1 C	3800 C	430 C

Contaminant	C=carcinogen Tap Water ug/L	Ambient Ambient Air ug/m3	N=noncarcinogen Fish mg/kg	Soil Industrial/ Commerical mg/kg	Soil Residential mg/kg
Prometon	550 N	550 N	200 N	310000 N	12000 N
Prometryn	150 N	150 N	54 N	82000 N	3100 N
Pronamide	2700 N	2700 N	1000 N	1000000 N	59000 N
Propachlor	470 N	470 N	180 N	270000 N	10000 N
Propanil	180 N	180 N	68 N	100000 N	3900 N
Propargite	730 N	730 N	270 N	410000 N	16000 N
Propargyl alcohol	73 N	73 N	27 N	41000 N	1600 N
Propazine	730 N	730 N	270 N	410000 N	16000 N
Propham	730 N	730 N	270 N	410000 N	16000 N
Propiconazole	470 N	470 N	180 N	270000 N	10000 N
Propylene glycol	730000 N	730000 N	270000 N	1000000 N	1000000 N
Propylene glycol, monoethyl ether	26000 N	26000 N	9500 N	1000000 N	550000 N
Propylene glycol, monomethyl ether	26000 N	21000 N	9500 N	1000000 N	550000 N
Propylene oxide	28 C	49 C	1.3 C	2400 C	270 C
Pursuit	9100 N	9100 N	3400 N	1000000 N	200000 N
Pydrin	910 N	910 N	340 N	510000 N	20000 N
Pyridine	37 N	37 N	14 N	20000 N	780 N
Quinalphos	18 N	18 N	6.8 N	10000 N	390 N
Quinoline	0.56 C	0.052 C	0.026 C	48 C	5.3 C
Resmethrin	1100 N	1100 N	410 N	610000 N	23000 N
Ronnel	1800 N	1800 N	680 N	1000000 N	39000 N
Rotenone	150 N	150 N	54 N	82000 N	3100 N
Savey	910 N	910 N	340 N	510000 N	20000 N
Selenious Acid	180 N	180 N	68 N	100000 N	3900 N
Selenium	180 N	180 N	68 N	100000 N	3900 N
Selenourea	180 N	180 N	68 N	100000 N	3900 N
Sethoxydim	3300 N	3300 N	1200 N	1000000 N	70000 N
Silver and compounds	180 N	180 N	68 N	100000 N	3900 N
Simazine	56 C	5.2 C	2.6 C	4800 C	530 C
Sodium azide	150 N	150 N	54 N	82000 N	3100 N
Sodium diethyldithiocarbamate	25 C	2.3 C	1.2 C	2100 C	240 C
Sodium fluoroacetate	0.73 N	0.73 N	0.27 N	410 N	16 N
Sodium metavanadate	37 N	37 N	14 N	20000 N	780 N
Strontium, stable	22000 N	22000 N	8100 N	1000000 N	470000 N
Strychnine	11 N	11 N	4.1 N	6100 N	230 N
Styrene	1600 N	10000 N	2700 N	1000000 N	160000 N

	C=carcinogen		N=noncarcinogen		
		Ambient		Soil	
Contaminant	Tap Water ug/L	Ambient Air ug/m3	Fish mg/kg	Industrial/ Commerical mg/kg	Residential mg/kg
2,3,7,8-TCDD (dioxin)	0.000043 C	0.0000054 C	0.000002 C	0.0037 C	0.00041 C
Tebuthiuron	2600 N	2600 N	950 N	1000000 N	55000 N
Temephos	730 N	730 N	270 N	410000 N	16000 N
Terbacil	470 N	470 N	180 N	270000 N	10000 N
Terbufos	0.91 N	0.91 N	0.34 N	510 N	20 N
Terbutryn	37 N	37 N	14 N	20000 N	780 N
1,2,4,5-Tetrachlorobenzene	1.8 N	11 N	4.1 N	6100 N	230 N
1,1,1,2-Tetrachloroethane	41 C	24 C	12 C	22000 C	2500 C
1,1,2,2-Tetrachloroethane	5.2 C	3.1 C	1.6 C	2900 C	320 C
Tetrachloroethylene (PCE)	110 C	310 C	6.1 C	11000 C	1200 C
2,3,4,6-Tetrachlorophenol	1100 N	1100 N	410 N	610000 N	23000 N
p,a,a,a-Tetrachlorotoluene	0.053 C	0.031 C	0.016 C	29 C	3.2 C
Tetrachlorovinphos	280 C	26 C	13 C	24000 C	2700 C
Tetraethyldithiopyrophosphate	18 N	18 N	6.8 N	10000 N	390 N
Tetraethyl lead	0.0037 N	0.0037 N	0.0014 N	2 N	0.078 N
1,1,1,2-Tetrafluoroethane	140000 N	840000 N	0	0	0
Thallic oxide	2.6 N	2.6 N	0.95 N	1400 N	55 N
Thallium	0	0	0	0	0
Thallium acetate	3.3 N	3.3 N	1.2 N	1800 N	70 N
Thallium carbonate	2.9 N	2.9 N	1.1 N	1600 N	63 N
Thallium chloride	2.9 N	2.9 N	1.1 N	1600 N	63 N
Thallium nitrate	3.3 N	3.3 N	1.2 N	1800 N	70 N
Thallium selenite	3.3 N	3.3 N	1.2 N	1800 N	70 N
Thallium sulfate	2.9 N	2.9 N	1.1 N	1600 N	63 N
Thiobencarb	370 N	370 N	140 N	200000 N	7800 N
2-(Thiocyanomethylthio)-benzothiazole	1100 N	1100 N	410 N	610000 N	23000 N
Thiofanox	11 N	11 N	4.1 N	6100 N	230 N
Thiophanate-methyl	2900 N	2900 N	1100 N	1000000 N	63000 N
Thiram	180 N	180 N	68 N	100000 N	3900 N
Tin and compounds	22000 N	22000 N	8100 N	1000000 N	470000 N
Toluene	750 N	4200 N	2700 N	1000000 N	160000 N
Toluene-2,4-diamine	2.1 C	0.2 C	0.099 C	180 C	20 C
Toluene-2,5-diamine	22000 N	22000 N	8100 N	1000000 N	470000 N
Toluene-2,6-diamine	7300 N	7300 N	2700 N	1000000 N	160000 N
p-Toluidine	35 C	3.3 C	1.7 C	3000 C	340 C
Toxaphene	6.1 C	0.56 C	0.29 C	520 C	58 C

Contaminant	C=carcinogen N=noncarcinogen				
	Tap Water	Ambient Ambient Air	Fish	Soil Industrial/ Commerical	Residential
	ug/L	ug/m3	mg/kg	mg/kg	mg/kg
Triallate	470 N	470 N	180 N	270000 N	10000 N
Triasulfuron	370 N	370 N	140 N	200000 N	7800 N
1,2,4-Tribromobenzene	30 N	180 N	68 N	100000 N	3900 N
Tributyltin oxide (TBTO)	1.1 N	1.1 N	0.41 N	610 N	23 N
2,4,6-Trichloroaniline hydrochloride	230 C	22 C	11 C	20000 C	2200 C
2,4,6-Trichloroaniline	200 C	18 C	9.3 C	17000 C	1900 C
1,2,4-Trichlorobenzene	190 N	2100 N	140 N	200000 N	7800 N
*1,1,1-Trichloroethane	790 N	10000 N	470 N	720000 N	27000 N
1,1,2-Trichloroethane	19 C	11 C	5.5 C	10000 C	1100 C
Trichloroethylene (TCE)	160 C	100 C	29 C	52000 C	4700 N
Trichlorofluoromethane	1300 N	7300 N	4100 N	1000000 N	230000 N
2,4,5-Trichlorophenol	3700 N	3700 N	1400 N	1000000 N	78000 N
2,4,6-Trichlorophenol	610 C	57 C	29 C	52000 C	5800 C
2,4,5-Trichlorophenoxyacetic acid	370 N	370 N	140 N	200000 N	7800 N
2-(2,4,5-Trichlorophenoxy)propionic acid	290 N	290 N	110 N	160000 N	6300 N
1,1,2-Trichloropropane	30 N	180 N	68 N	100000 N	3900 N
1,2,3-Trichloropropane	0.15 C	0.089 C	0.045 C	82 C	9.1 C
1,2,3-Trichloropropene	30 N	180 N	68 N	100000 N	3900 N
1,1,2-Trichloro-1,2,2- trifluoroethane	59000 N	310000 N	410000 N	1000000 N	1000000 N
Tridiphane	110 N	110 N	41 N	61000 N	2300 N
Triethylamine	73 N	73 N	0	0	0
Trifluralin	870 C	81 C	41 C	74000 C	5900 N
1,2,4-Trimethylbenzene	300 N	1800 N	680 N	1000000 N	39000 N
1,3,5-Trimethylbenzene	300 N	1800 N	680 N	1000000 N	39000 N
Trimethyl phosphate	180 C	17 C	8.5 C	15000 C	1700 C
1,3,5-Trinitrobenzene	1.8 N	1.8 N	0.68 N	1000 N	39 N
Trinitrophenylmethylnitramine	370 N	370 N	140 N	200000 N	7800 N
2,4,6-Trinitrotoluene	18 N	18 N	6.8 N	10000 N	390 N
Uranium (soluble salts)	110 N	110 N	41 N	61000 N	2300 N
Vanadium	260 N	260 N	95 N	140000 N	5500 N
Vanadium pentoxide	330 N	330 N	120 N	180000 N	7000 N
Vanadium sulfate	730 N	730 N	270 N	410000 N	16000 N
Vernam	37 N	37 N	14 N	20000 N	780 N
Vinclozolin	910 N	910 N	340 N	510000 N	20000 N
Vinyl acetate	37000 N	2100 N	14000 N	1000000 N	780000 N
Vinyl bromide	5.2 N	31 N	0	0	0

Contaminant	C = carcinogen N = noncarcinogen				
	Tap Water	Ambient Ambient Air	Fish	Soil	
				Industrial/ Commerical	Residential
	ug/L	ug/m3	mg/kg	mg/kg	mg/kg
Warfarin	11 N	11 N	4.1 N	6100 N	230 N
m-Xylene	1400 N	7300 N	27000 N	1000000 N	1000000 N
o-Xylene	1400 N	7300 N	27000 N	1000000 N	1000000 N
p-Xylene	520 N	3100 N	0	0	0
Xylene (mixed)	12000 N	73000 N	27000 N	1000000 N	1000000 N
Zinc	11000 N	11000 N	4100 N	1000000 N	230000 N
Zinc phosphide	11 N	11 N	4.1 N	6100 N	230 N
Zineb	1800 N	1800 N	680 N	1000000 N	39000 N