

Chemical	CAS	RfDo	CSFo	RfDi	CSFi	VOC	Tap water	Risk-based concentrations				Region III SSLs	
								Ambient air	Fish	Industrial	Residential	Soil for groundwater migration	DAF 20
		mg/kg	1/mg/kg	mg/kg	1/mg/kg	Y	ug/l	ug/m ³	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
ACETALDEHYDE	75070	2E-02		2.57E-03	7.7E-03	Y	1.8E+00	8.1E-01				3.8E-04	7.7E-03
ACETOCHLOR	34268821	1.00E-01				Y	7.9E+02	7.9E+01		4.1E+04	1.8E+03	1.2E-01	2.5E+00
ACETONE	67641	1.00E-01		1.7E-02		Y	6.1E+02	3.7E-02		2.0E+05	7.8E+03	2.9E-02	5.9E-01
ACETONITRILE	78068	1.00E-01		5.70E-06		Y	4.2E+02	2.1E-02		2.0E+05	7.8E+03	1.1E-05	2.2E+04
ACETOPHENONE	98862	2.00E-02		5.70E-06		Y	4.2E+02	2.1E-02		2.0E+05	7.8E+03	1.0E-05	2.0E+04
ACROLEIN	70728	1.00E-01		4.50E+00		Y	4.2E+02	2.1E-02		2.0E+05	7.8E+03	3.7E-06	7.4E-05
ACRYLAMIDE	79081	2.00E-04		5.40E-01		Y	1.5E+02	1.4E-03		1.3E+00	1.4E-01	7.4E-06	1.5E+00
ACRYLONITRILE	107131	1.00E-03		5.40E-01		Y	3.7E+02	2.8E-02		1.1E+00	1.2E+00	3.5E-04	7.0E-03
ALACHLOR	15972808	1.00E-02		8.00E-02		Y	8.4E-01	7.8E-02		7.2E+01	8.0E+00		
ALAR	1598845	1.00E-01				Y	5.5E+03	5.5E+02		3.1E+05	1.2E+04	1.0E-02	2.1E-01
ALDICARB	116063	1.00E-03		1.00E-03		Y	3.7E+01	3.7E+00		2.0E+03	7.8E+01	7.5E-03	1.5E-01
ALDICARB SULFONE	1646884	1.00E-03		1.00E-03		Y	3.7E+01	3.7E+00		2.0E+03	7.8E+01	3.8E-04	7.7E-03
ALDRIN	309002	3.00E-05		1.70E+01		Y	3.9E+03	3.7E+04		3.4E+01	3.8E+02		
ALUMINUM	7429905	1.00E+00		1.00E-03		Y	3.7E+00	1.4E+00		2.0E+03	7.8E+01		
AMINODINITROLUENES		6.00E-05				Y	2.2E+00	2.2E-01		1.2E+02	4.7E+00		
4-AMINOPYRIDINE	504245	2.00E-05				Y	7.3E+01	7.3E-02		4.1E+01	1.6E+00		
AMMONIA	7664417	7.00E-03		2.86E-02		Y	1.2E+02	1.0E+02		1.0E+03	1.1E+02	6.8E-03	1.4E-01
ANILINE	62533	7.00E-03		2.90E-04		Y	1.2E+02	1.1E+00		5.9E-01	3.1E-01	6.6E-01	1.3E-01
ANTIMONY	7440360	4.00E-04				Y	1.5E+01	1.5E+00		8.2E+02	3.1E-01		
ANTIMONY PENTOXIDE	1314609	5.00E-04				Y	1.8E+01	1.8E+00		1.0E+03	3.9E-01		
ANTIMONY TETROXIDE	1332816	4.00E-04				Y	1.5E+01	1.5E+00		8.2E+02	3.1E-01		
ANTIMONY TRIOXIDE	1306844	4.00E-04		5.70E-05		Y	1.5E+01	2.1E-01		8.2E+02	3.1E-01		
ARSENIC	7440382	3.00E-04		1.50E+00		Y	4.5E+02	4.1E+04		3.8E+00	4.3E-01	1.3E-03	2.8E-02
ARSENITE	7784421	3.00E-04		1.40E-06		Y	1.0E-01	5.1E-02					
ASSURE	75578148	9.00E-03				Y	3.3E+01	3.3E+01		1.8E+04	7.0E+02		
ATRAZINE	1912249	3.00E-02		2.20E-01		Y	3.0E+01	2.8E-02		1.4E+02	2.6E+00	4.4E-04	8.8E-03
AZOBENZENE	103333	7.00E-02		1.10E-01		Y	6.1E-01	5.7E-02		5.2E+01	5.9E+00	1.8E-03	3.5E-02
BARIUM	7440393	7.00E-02		1.40E-04		Y	2.6E+03	5.1E-01		1.4E+05	5.5E+03	1.1E-02	2.1E+03
BAYCON	114281	7.00E-02				Y	1.5E+02	1.5E+01		8.2E+03	3.1E+02		
BAYTHROID	6839375	2.50E-02				Y	9.1E+02	9.1E+01		5.1E+04	2.0E+03		
BENTAZON	25057890	3.00E-02				Y	1.1E+03	1.1E+02		6.1E+04	2.3E+03		
BENZALDEHYDE	100527	1.00E-01		1.70E-03		Y	3.2E+01	3.7E+02		2.0E+05	7.8E+03		
BENZENE	71432	3.00E-03		5.5E-02		Y	6.1E-02	2.2E-01		1.0E+02	1.2E+01	9.0E-05	1.8E-02
BENZENETHIOL	109985	1.00E-05				Y	2.9E-04	3.7E-02		2.0E+01	7.8E-01		
BENZIDINE	92875	3.00E-03		2.30E+02		Y	6.1E-02	1.4E-05		2.5E-02	2.8E-03		
BENZOIC ACID	65850	4.00E+00				Y	1.5E+05	1.5E+04		8.2E+05	3.1E+05		
BENZYL ALCOHOL	100515	3.00E-01		0.17		Y	1.1E+04	1.1E+03		5.1E+05	2.3E+04	4.4E+00	8.8E+01
BENZYL CHLORIDE	100447	2.00E-03				Y	6.2E-02	3.7E-02		3.4E+01	3.8E+00	1.9E-05	3.7E+04
BERYLLIUM	7440417	2.00E-03		5.7E-06		Y	7.3E+01	7.5E+04		4.1E+03	1.6E+02	5.8E+01	1.2E+03
BIPHENYL	92524	5.00E-02				Y	3.0E+02	6.8E+01		1.0E+05	3.9E+03	4.8E+00	9.8E+01
BIS(2-CHLOROETHYL)ETHER	111444	4.00E-02		1.10E+00		Y	9.6E-03	5.7E-03		5.2E+00	5.8E-01	2.2E-06	4.4E-05
BIS(2-CHLOROISOPROPYL)ETHER	108601	4.00E-02		7.00E-02		Y	2.6E-01	1.8E-01		8.2E+01	9.1E+00	8.4E-05	1.7E-03
BIS(2-CHLOROMETHYL)ETHER	542881	2.00E-02		2.20E-02		Y	4.8E-06	2.8E-05		1.4E-05	2.9E-03	9.7E-09	1.9E-07
BIS(2-ETHYLHEXYL)PHTHALATE	117817	2.00E-02		1.40E-02		Y	4.8E+00	4.5E-01		4.1E+02	4.6E+01	1.4E-02	2.8E+03
BORON	7440428	9.00E-02		5.70E-03		Y	3.3E+03	2.1E+01		1.8E+05	7.0E+03	5.4E-05	1.1E-03
BROMDICHLOROMETHANE	75274	2.00E-02		6.20E-02		Y	1.7E-01	1.0E-01		9.2E+01	1.0E-01	5.4E-05	1.1E-03
BROMETHENE	59302	2.00E-02		8.6E-04		Y	1.1E-01	6.7E-02		7.2E+02	8.1E+01	5.4E-05	1.1E-03
BROMOFORM	75592	2.00E-02		7.90E-03		Y	8.5E+00	1.6E+00		2.9E+03	1.1E+02	3.3E-03	6.7E-02
BROMOMETHANE	74839	1.40E-03		1.40E-03		Y	1.8E+02	1.8E+01		1.0E+04	3.9E+02	2.1E-03	4.1E-02
BROMOPHOS	2104963	5.00E-03				Y	7.0E-03	3.5E-03				3.9E-06	7.8E-06
1,3-BUTADIENE	106990	1.00E-01				Y	3.7E+03	3.7E+02		2.0E+05	7.8E+03	7.8E-01	1.9E+01
1-BUTANOL	71363	2.00E-01				Y	1.8E+03	1.8E+02		4.1E+05	1.6E+04	8.4E+02	1.7E+04
BUTYL BENZYLPHTHALATE	85687	5.00E-02				Y	1.8E+03	1.8E+02		1.0E+05	3.9E+03		
BUTYLATE	2008415	4.00E-02				Y	2.4E+02	1.5E+02		8.2E+04	3.1E+03		
N-BUTYLBENZENE	104518	4.00E-02				Y	2.4E+02	1.5E+02		8.2E+04	3.1E+03		
SEC-BUTYLBENZENE	135989	4.00E-02				Y	2.4E+02	1.5E+02		8.2E+04	3.1E+03		
TERT-BUTYLBENZENE	98066	4.00E-02				Y	2.4E+02	1.5E+02		8.2E+04	3.1E+03		
CADMIUM-WATER	7440439	5.00E-04		5.7E-05		Y	1.8E+01	9.9E-04		1.0E+03	7.8E+01	1.4E+00	2.7E+01
CADMIUM-FOOD	7440439	1.00E-03		5.7E-05		Y	3.7E+01	9.9E-04		2.0E+03	7.8E+01	2.7E+00	5.5E+01
CAPROLACTAM	105602	5.00E-01				Y	1.8E+03	1.8E+02		1.0E+06	3.9E+04		
CARBARYL	63252	1.00E-01				Y	3.7E+03	3.7E+02		2.0E+05	7.8E+03	1.5E+00	3.0E+01
CARBON DISULFIDE	75150	1.00E-01		2.00E-01		Y	1.0E+03	7.3E+02		2.0E+05	7.8E+03	9.5E-01	1.9E+01
CARBON TETRACHLORIDE	56235	7.00E-04		5.71E-04		Y	1.6E-01	1.2E-01		2.4E+02	4.4E+01	1.1E-04	2.1E-03
CARBOSULFAN	55285148	1.00E-02				Y	3.7E+02	3.7E+01		2.0E+04	7.8E+02		
CHLORAL HYDRATE	302170	1.00E-01				Y	3.7E+03	3.7E+02		2.0E+05	7.8E+03		

Source: 1 = IRIS H = h.v.u.f. A = HEAST Allama W = Withdrawn from IRIS or HEAST
 E = EPA-NCEA provisional value O = other

Chemical	CAS	RfD mg/kg/d	CSF ₀ 1/mg/kg/d	RfD mg/kg/d	CSF ₁ 1/mg/kg/d	VOC	Tap water ug/l	Risk-based concentrations				Region III SLS	
								Ambient air ug/m3	Fish mg/kg	Soil Industrial mg/kg	Residential mg/kg	DAF 1 mg/kg	DAF 20 mg/kg
CHLORANIL	118752												
CHLORANIL	57749	5.00E-04	3.5E-01	2.00E-04	3.5E-01		1.7E-01	1.8E-02	7.9E-03	1.4E-01	1.6E-00	4.6E-02	9.2E-01
CHLORANIL	57749	5.00E-04	3.5E-01	2.00E-04	3.5E-01		1.9E-01	1.8E-02	9.0E-03	1.6E-01	1.8E-00	4.6E-02	9.2E-01
CHLORINE	7782505	1.00E-01		5.7E-05		Y	4.2E-01	2.1E-01	1.4E-02	2.0E-05	7.8E-03	2.3E-03	
CHLORINE DIOXIDE	10049044	3.00E-02		5.70E-05		Y	4.2E-01	2.1E-01	1.4E-02	2.0E-05	7.8E-03	2.3E-03	
CHLORACETIC ACID	79119	2.00E-03					7.3E-01	7.3E-02	2.7E-03	4.1E-03	1.8E-02	4.8E-02	9.7E-01
4-CHLORANILINE	106479	4.00E-03					1.5E-02	1.5E-01	5.4E-03	9.2E-03	3.1E-02	4.0E-02	8.0E-01
CHLOROBENZENE	108907	2.00E-02		1.7E-02		Y	1.1E-02	6.2E-01	2.7E-01	4.1E-04	1.6E-03	1.3E-03	2.7E-02
CHLOROBENZYLATE	510156	2.00E-02	2.70E-01				2.5E-01	2.3E-02	1.2E-02	2.1E-01	2.4E-00	6.0E-03	1.2E-01
P-CHLOROBENZOIC ACID	74113	2.00E-01				Y	7.3E-03	7.3E-02	2.7E-01	4.1E-04	1.6E-03	1.3E-03	2.7E-02
2-CHLORO-1,3-BUTADIENE	126998	2.00E-02	A	2.00E-03	H		1.4E-01	7.3E-02	2.7E-01	4.1E-04	1.6E-03	1.3E-03	2.7E-02
1-CHLOROBUTANE	109693	4.00E-01	H			Y	2.4E-03	1.5E-03	5.4E-02	8.2E-05	3.1E-04	7.0E-01	1.4E-03
1-CHLORO-1,1-DIFLUOROETHANE	75663			1.40E-01		Y	1.0E-05	5.1E-04				7.0E-01	1.4E-03
CHLOROFLUOROMETHANE	75456			1.40E-01		Y	1.0E-05	5.1E-04				7.0E-01	1.4E-03
CHLOROETHANE	75003	4.00E-01	E	2.90E-03		Y	3.6E-00	2.2E-00	1.1E-00	2.0E-03	2.2E-02	6.6E-02	1.3E-00
CHLOROFORM	67663	1.00E-02		8.10E-05	E	Y	1.5E-01	7.7E-02	5.2E-01	9.4E-02	1.0E-02	4.5E-05	8.9E-04
CHLOROMETHANE	74873	1.30E-02	H	2.8E-02		Y	2.1E-00	1.8E-00	2.4E-01	4.4E-02	4.9E-01	5.2E-04	1.0E-02
4-CHLORO-2-METHYLANILINE	95692	8.00E-02		5.90E-01		Y	1.2E-01	1.1E-02	5.4E-03	9.9E-00	1.1E-00	1.6E-00	3.2E-01
BETA-CHLORONAPHTHALENE	91587					Y	4.9E-02	2.9E-02	1.1E-02	1.6E-05	6.3E-03		
O-CHLORONITROBENZENE	88733					Y	4.2E-01	2.9E-01	1.3E-01	2.3E-02	2.8E-01		
P-CHLORONITROBENZENE	100005			2.50E-02	H		5.9E-01	3.5E-01	1.8E-01	3.2E-02	3.5E-01		
2-CHLOROPHENOL	95578	5.00E-03		1.80E-02	H	Y	3.0E-01	1.8E-01	6.8E-00	1.0E-04	3.9E-02		
2-CHLOROPROPANE	75296					Y	2.1E-02	1.1E-02					
O-CHLOROTOLUENE	95498	2.00E-02				Y	1.2E-02	7.3E-01	2.7E-01	4.1E-04	1.6E-03	5.3E-02	1.1E-04
CHLORPYRIFOS	2921882	3.00E-03				Y	1.1E-02	1.1E-01	4.1E-00	6.1E-03	2.3E-02	1.9E-06	6.3E-01
CHLORPYRIFOS-METHYL	5598130	1.00E-02	H				3.7E-02	3.7E-01	1.4E-01	2.0E-04	7.8E-02		
CHROMIUM III	18065831	1.50E-00					5.5E-04	5.5E-03	2.0E-03	3.1E-06	1.2E-05	9.9E-07	2.0E-09
CHROMIUM VI	18540299	3.00E-03		3.00E-05		Y	1.1E-04	1.5E-04	6.1E-03	2.3E-02	2.3E-02	2.1E-00	4.2E-01
COBALT	7440484	2.00E-02	E	5.00E-06			7.3E-02	1.8E-02	2.7E-01	4.1E-04	1.6E-03		
COKE OVEN EMISSIONS (COAL TAR)	8007452					2.2		2.8E-03					
COPPER	7440308	4.00E-02	H				1.5E-03	1.5E-02	5.4E-01	8.2E-04	3.1E-03	5.3E-02	1.1E-04
CROTONALDEHYDE	123739			1.90E-00	H	Y	6.6E-02	3.3E-03	1.7E-03	3.0E-00	3.4E-01	1.9E-06	3.1E-04
CUMENE	98628	1.00E-01					7.3E-02	4.0E-02	1.4E-02	2.0E-05	7.8E-03	3.2E-00	6.4E-01
CYANIDE (FREE)	57125	2.00E-02				Y	7.3E-02	7.3E-01	2.7E-01	4.1E-04	1.6E-03	7.4E-00	1.5E-02
CALCIUM CYANIDE	592018	4E-02					1.5E-03	1.5E-02	5.4E-01	8.2E-04	3.1E-03		
COPPER CYANIDE	544923	5.00E-03				Y	1.8E-02	1.8E-01	6.8E-00	1.0E-04	3.9E-02	2.6E-05	5.3E-04
CYANAZINE	21725482	2.00E-03	H	8.40E-01		Y	5.0E-02	7.5E-03	3.8E-03	6.8E-00	7.6E-01		
CYANIDE	460195	4.00E-02					2.4E-02	1.5E-02	5.4E-01	8.2E-04	3.1E-03		
CYANIDE	506883	9.00E-02					3.3E-03	3.3E-02	1.2E-02	1.8E-05	7.0E-03		
CYANIDE	506774	5.00E-02					1.8E-03	1.8E-02	6.8E-01	1.0E-05	3.9E-03		
CYANIDE	74908	2.00E-02					6.2E-03	3.1E-02	2.7E-01	4.1E-04	1.6E-03		
POTASSIUM CYANIDE	151508	5.00E-02		8.50E-04		Y	1.8E-03	1.8E-02	6.8E-01	1.0E-05	3.9E-03		
POTASSIUM SILVER CYANIDE	506816	2.00E-01					7.3E-03	7.3E-02	2.7E-01	4.1E-04	1.6E-03		
SILVER CYANIDE	506549	1.00E-01					3.7E-03	3.7E-02	1.4E-02	2.0E-05	7.8E-03		
SODIUM CYANIDE	143339	4.00E-02					1.5E-03	1.5E-02	5.4E-01	8.2E-04	3.1E-03	3.1E-01	6.2E-02
THIOCYANATE	557211	5.00E-02					1.8E-03	1.8E-02	6.8E-01	1.0E-05	3.9E-03		
ZINC CYANIDE	106841	5.00E-00					1.8E-03	1.8E-02	6.8E-01	1.0E-05	3.9E-03		
CYCLOHEXANONE	6905858	5.00E-03					3.7E-02	3.7E-01	1.4E-01	2.0E-04	7.8E-02		
CYALOTHRINKARATE	52315076	1.00E-02					3.7E-02	3.7E-01	1.4E-01	2.0E-04	7.8E-02		
CYPERMETHRIN	1861321	1.00E-02					1.1E-03	1.1E-02	4.1E-01	6.1E-04	2.3E-03	3.5E-01	7.1E-03
DACHAL	76990	3.00E-02					2.9E-01	2.8E-02	1.3E-02	2.4E-01	2.7E-00	5.6E-01	1.1E-01
DALAPON	72549			2.40E-01			2.0E-01	1.8E-02	9.3E-03	1.7E-01	1.9E-00	1.8E-00	3.6E-01
DDO	72559	6.00E-04		3.40E-01		Y	2.0E-01	1.8E-02	9.3E-03	1.7E-01	1.9E-00	1.8E-00	3.6E-01
DDO	50233	6.00E-04		3.40E-01			3.3E-01	3.3E-00	1.2E-00	1.7E-03	1.9E-00	1.8E-00	3.6E-01
DDO	333415	9.00E-04	H				2.4E-01	1.5E-01	5.4E-00	8.2E-03	3.1E-02	3.6E-01	7.7E-00
DIBENZOFURAN	132649	4.00E-03	E			Y	3.7E-02	3.7E-01	1.4E-01	2.0E-04	7.8E-02		
1,4-DIBROMOBENZENE	106378	1.00E-02				Y	1.3E-01	7.5E-02	3.8E-02	6.8E-01	7.8E-00		
DIBROMOCHLOROMETHANE	124481	2.00E-02		8.40E-02			1.3E-01	7.5E-02	3.8E-02	6.8E-01	7.8E-00		
1,2-DIBROMO-3-CHLOROPROPANE	96128	1.40E-00	H	5.70E-05		Y	7.5E-04	8.2E-03	3.7E-05	4.1E-00	4.6E-01	4.4E-05	8.7E-04
1,2-DIBROMOETHANE	106934	8.50E-01		5.70E-05	H	Y	7.5E-04	8.2E-03	3.7E-05	4.1E-00	4.6E-01	4.4E-05	8.7E-04
DIBUTYLPHOSPHATE	84742	1.00E-01					3.7E-03	3.7E-02	1.4E-02	2.0E-05	7.8E-03	2.5E-02	5.0E-03
DICAMBA	191809	3.00E-02					1.1E-03	1.1E-02	4.1E-01	6.1E-04	2.3E-03	2.2E-01	4.5E-00
1,1,2-DICHLOROBENZENE	95501	9.00E-02		4.00E-02	H	Y	2.7E-02	1.9E-02	1.2E-02	1.9E-03	2.0E-03	2.3E-01	4.5E-00
1,3-DICHLOROBENZENE	541731	3.00E-02	E			Y	1.8E-02	1.1E-02	4.1E-01	6.1E-04	2.3E-03	1.5E-01	2.9E-00
1,4-DICHLOROBENZENE	106467	3.00E-02	E	2.40E-02	H	Y	4.7E-01	2.8E-01	1.3E-01	2.4E-02	2.7E-01	3.8E-04	7.1E-03

Source: 1. IRIS H & H; 2. A & HEAST Alternates; W & Withdrawn from IRIS or HEAST

E = EPA/NCIA provisional value; O = other

Chemical	CAS	RfD mg/kg/d	CSF ₀ 1/mg/kg/d	RfD ₁ mg/kg/d	CSF ₁ 1/mg/kg/d	VOC	Tap water ug/l	Risk-based concentrations			Soil Industrial mg/kg	Residential mg/kg	Region III SSLs	
								Ambient air ug/m ³	Fish mg/kg	Soil water ug/l			DAF 1 mg/kg	DAF 20 mg/kg
3,3'-DICHLOROBENZIDINE	91941		4.50E-01				1.5E-01	1.4E-02	7.0E-03	1.3E-01	1.4E-01	1.4E-01	2.5E-04	4.9E-03
1,4-DICHLORO-2-BUTENE	764410				9.30E-00	H	1.3E-03	6.7E-04					4.0E-07	8.0E-06
DICHLORODIFLUOROMETHANE	75718	2.00E-01		5.00E-02	A		3.5E-02	1.8E-02	2.7E-02	4.1E-05	1.8E-04	1.8E-04	5.5E-01	1.1E-01
1,1-DICHLOROETHANE	75943	1.00E-01	H	1.40E-01	A		8.0E-02	5.1E-02	1.4E-02	2.0E-05	7.8E-03	7.8E-03	2.3E-01	4.5E-00
1,2-DICHLOROETHANE	107062	3.00E-02	E	9.10E-02	E		1.2E-01	6.9E-02	3.5E-02	6.3E-01	7.0E-00	7.0E-00	5.2E-05	1.0E-03
1,1-DICHLOROETHENE	75354	9.00E-03		6.00E-01			4.4E-02	3.9E-02	5.3E-03	9.5E-00	1.1E-00	1.1E-00	1.8E-05	3.8E-04
CIS-1,2-DICHLOROETHENE	156992	1.00E-02	H				6.1E-01	3.7E-01	1.4E-01	2.0E-04	7.8E-02	7.8E-02	1.7E-02	3.9E-01
TRANS-1,2-DICHLOROETHENE	156605	2.00E-02					1.2E-02	7.3E-01	2.7E-01	1.9E-04	1.8E-03	1.8E-03	4.1E-02	8.2E-01
TOTAL 1,2-DICHLOROETHENE	540590	9.00E-03	H				5.5E-01	3.3E-01	1.2E-01	1.8E-04	1.9E-04	1.9E-04	1.9E-02	3.7E-01
2,4-DICHLOROPHENOL	120832	3.00E-03					1.1E-02	1.1E-01	4.1E-00	6.1E-03	2.3E-02	2.3E-02	6.0E-02	1.2E-00
2,4-D	94757	1.00E-02					3.7E-01	1.4E-01	2.0E-04	2.0E-04	7.8E-02	7.8E-02	4.5E-01	9.0E-00
4-(2,4-DICHLOROPHENOXY)BUTYRIC ACID	94829	8E-03					2.9E-02	2.9E-01	1.1E-01	1.9E-04	6.3E-02	6.3E-02	1.0E-04	2.1E-03
1,2-DICHLOROPROPANE	78875	3.00E-03		6.80E-02	H		1.6E-01	9.2E-02	4.6E-02	8.4E-01	9.4E-00	9.4E-00	2.3E-01	4.5E-02
2,3-DICHLOROPROPANOL	615239	3.00E-02		1.00E-01	5.71E-03		1.1E-02	1.1E-01	4.1E-00	6.1E-03	2.3E-02	2.3E-02	1.0E-04	3.1E-03
1,3-DICHLOROPROPENE	542756	3.00E-02		1.00E-01	5.71E-03		4.4E-01	6.3E-02	3.2E-02	5.7E-01	6.4E-00	6.4E-00	5.5E-06	1.1E-03
DICHLOROS	62737	5E-04		0.29	1.43E-04		2.3E-01	2.2E-02	1.1E-02	2.0E-01	2.2E-00	2.2E-00	9.3E-04	1.9E-02
DICOFOL	115322	3E-02	H				1.5E-01	1.4E-02	7.2E-03	1.3E-01	1.5E-00	1.5E-00		
DICYCLOPENTADIENE	77736	5.00E-05		6.00E-05	A		4.4E-01	2.2E-01	4.1E-01	6.1E-04	2.3E-03	2.3E-03	1.1E-04	2.2E-03
DIELDRIN	60571	5.00E-05		1.60E-01			4.2E-03	3.9E-04	2.0E-04	3.9E-01	4.0E-02	4.0E-02		
DIESEL EMISSIONS							5.1E-00							
DIETHYLPHthalate	84662	8.00E-01					2.9E-04	2.9E-03	1.1E-03	1.6E-06	6.3E-04	6.3E-04	2.3E-01	4.5E-02
DIETHYLENE GLYCOL MONOBUTYL ETHER	112345	2.00E-00	H		5.70E-03	H	7.3E-04	7.3E-03	2.7E-03	4.1E-06	1.8E-05	1.8E-05		
DIETHYLENE GLYCOL MONOETHYL ETHER	111900	6.00E-01		1.20E-03			5.6E-01	5.2E-00	2.6E-00	4.8E-03	5.3E-02	5.3E-02		
O(2-ETHYLHEXYL)ADIPIATE	103231	6.00E-01		1.20E-03			1.4E-06	1.3E-06	6.7E-07	1.2E-03	1.4E-04	1.4E-04		
DIETHYLSTIBESTROL	66531	4.70E-03	H				2.9E-03	2.9E-02	1.1E-02	1.6E-05	8.3E-03	8.3E-03		
DIFENZOQUAT (AVENGE)	43222486	8.00E-02					8.0E-04	4.0E-04						
1,1-DIFLUOROETHANE	75376	8.00E-02		1.10E-01			2.9E-03	2.9E-02	1.1E-02	1.6E-05	6.3E-03	6.3E-03		
DISOPROPYL METHYLPHOSPHONATE (DIMP)	1445756	1.40E-02	H				4.8E-00	4.9E-01	2.3E-01	4.1E-02	4.6E-01	4.6E-01		
3,3-DIMETHOXYBENZIDINE	119904	2.00E-03					4.2E-02	2.1E-02					8.5E-06	1.7E-04
DIMETHYLAMINE	124403	5.80E-01	H		5.70E-06		1.2E-01	1.1E-02						
2,4-DIMETHYLANILINE HYDROCHLORIDE	21436964	7.50E-01	H				8.9E-02	8.3E-03						
2,4-DIMETHYLANILINE	95681	2.00E-03					7.3E-01	7.3E-00	2.7E-00	4.1E-03	1.6E-02	1.6E-02		
N,N-DIMETHYLBENZIDINE	119837	9.20E-00	H				7.3E-03	6.8E-04	3.4E-04	6.2E-01	6.9E-02	6.9E-02		
3,3-DIMETHYLBENZIDINE	119837	2.80E-00	H				2.6E-02	1.8E-03	1.2E-03	2.2E-00	2.5E-01	2.5E-01		
1,1-DIMETHYLHYDRAZINE	57147	3.70E-01	W		3.50E-00	W	1.8E-03	1.7E-04	8.5E-05	1.3E-01	1.7E-02	1.7E-02		
1,2-DIMETHYLHYDRAZINE	540738	2.00E-02					7.3E-02	7.3E-01	2.7E-01	4.1E-04	1.8E-03	1.8E-03	3.4E-01	6.7E-00
2,4-DIMETHYLPHENOL	105679	3.70E-01	W				2.2E-01	2.2E-00	8.1E-01	1.2E-03	4.7E-01	4.7E-01		
2,6-DIMETHYLPHENOL	576261	6.00E-04					3.7E-01	3.7E-00	1.4E-00	2.0E-03	7.8E-01	7.8E-01		
3,4-DIMETHYLPHENOL	95658	1.00E-03					3.7E-01	3.7E-00	1.4E-00	2.0E-03	7.8E-01	7.8E-01		
DIMETHYLPHthalate	131113	1.00E-01	W				3.7E-01	3.7E-00	1.4E-00	2.0E-03	7.8E-01	7.8E-01		
1,2-DINITROBENZENE	528290	4.00E-04	H				1.5E-01	1.5E-00	5.4E-01	8.2E-02	3.1E-01	3.1E-01		
1,3-DINITROBENZENE	99650	1.00E-04					3.7E-01	3.7E-00	1.4E-00	2.0E-03	7.8E-01	7.8E-01		
1,4-DINITROBENZENE	100254	4.00E-04	H				1.5E-01	1.5E-00	5.4E-01	8.2E-02	3.1E-01	3.1E-01		
4,6-DINITRO-O-CYCLOHEXYL PHENOL	131895	2.00E-03					3.7E-01	3.7E-00	1.4E-00	2.0E-03	7.8E-01	7.8E-01		
**4,8-DINITRO-2-METHYLPHENOL	534521	1.00E-03	E				3.7E-01	3.7E-00	1.4E-00	2.0E-03	7.8E-01	7.8E-01		
DINITROPHENOL	51285	2.00E-03					3.7E-01	3.7E-00	1.4E-00	2.0E-03	7.8E-01	7.8E-01		
DINITROTOLUENE MIX					6.80E-01		9.9E-02	9.2E-03	4.6E-03	4.6E-00	9.4E-01	9.4E-01		
2,4-DINITROTOLUENE	121142	2.00E-03					7.3E-01	7.3E-00	2.7E-00	4.1E-03	1.6E-02	1.6E-02	2.9E-02	5.7E-01
2,6-DINITROTOLUENE	606202	1.00E-03	H				3.7E-01	3.7E-00	1.4E-00	2.0E-03	7.8E-01	7.8E-01	1.2E-02	2.5E-01
DINOSORB	98557	1.00E-03					3.7E-01	3.7E-00	1.4E-00	2.0E-03	7.8E-01	7.8E-01	8.7E-03	1.7E-01
DIOCTYLPHthalate	117840	2.00E-02	H				3.7E-01	3.7E-00	1.4E-00	2.0E-03	7.8E-01	7.8E-01		
1,4-DIOXANE	123911	2.00E-02		1.10E-02			6.1E-00	5.7E-01	2.9E-01	5.1E-04	2.0E-03	2.0E-03	1.2E-05	2.4E-06
DIPHENYLAMINE	122394	2.00E-02					9.1E-02	9.1E-01	3.4E-01	5.2E-02	2.0E-03	2.0E-03	1.3E-03	2.5E-01
1,2-DIPHENYLHYDRAZINE	122657	2.00E-02					7.8E-03	7.8E-03	3.9E-03	7.2E-00	8.0E-01	8.0E-01	1.3E-04	2.5E-03
DQUAT	85007	2.00E-03			8.00E-01		8.0E-01	8.0E-00	3.0E-00	4.5E-03	1.7E-02	1.7E-02	1.7E-02	3.3E-01
DISULFOTON	299044	4.00E-05					1.5E-00	1.5E-01	5.4E-02	8.2E-01	3.1E-00	3.1E-00	3.2E-03	6.4E-02
1,4-DITHIANE	505293	1.00E-02					3.7E-02	3.7E-01	1.4E-01	2.0E-04	7.8E-02	7.8E-02	5.8E-02	1.2E-00
DIURON	330541	2.00E-03					2.2E-02	2.2E-01	8.1E-00	4.1E-03	1.6E-02	1.6E-02	9.8E-01	2.0E-01
ENDOSULFAN	115297	3.00E-03					1.1E-01	1.1E-00	4.1E-01	6.1E-02	2.3E-01	2.3E-01	2.7E-01	5.4E-00
ENDRIN	72208	3.00E-04					2.0E-00	2.0E-00	3.2E-01	5.8E-02	6.5E-01	6.5E-01	4.2E-04	8.4E-03
EPICHLOROHYDRIN	106898	2.00E-03	H		4.20E-03		1.8E-01	1.8E-00	6.8E-01	1.0E-03	3.9E-01	3.9E-01	3.2E-01	6.4E-00
ETHION	563122	5.00E-04					1.5E-04	2.1E-02	5.4E-02	8.2E-05	3.1E-04	3.1E-04	3.3E-00	6.5E-01
2-ETHOXYETHANOL	110805	4.00E-01	H				5.5E-03	5.5E-03	1.2E-03	2.0E-05	7.0E-04	7.0E-04	1.7E-00	3.5E-01
ETHYL ACETATE	141786	9.00E-01					1.3E-03	1.1E-03	1.4E-02	2.0E-05	7.8E-03	7.8E-03	7.5E-01	1.5E-01
ETHYLBENZENE	100414	1.00E-01												

Source: 1 = IRIS H + HCAST A + HCAST Alternate W = Withdrawn from IRIS or HCAST
E = EPA ACEA provisional value O = other

Basal, C = Carcinogenic effects, N = Noncarcinogenic effects, I = RBC at H ₁ of 0.1, $\times$ RBC=C										Region III SSLs					
Chemical	CAS	RIDG	CSF ₀ 1/mg/kg/d	RDI mg/kg/d	CSFI 1/mg/kg/d	VOC	Tap water µg/l	Ambient air µg/m ³	Risk-based concentrations			Soil industrial mg/kg	Residential mg/kg	Soil, for groundwater migration DAF 1 mg/kg	DAF 20 mg/kg
									Fish mg/kg						
ETHYLENE DIAMINE	107163	2.00E-02 H					7.3E-02 N	7.3E-01 N	2.7E-01 N	4.1E-04 N	1.6E-03 N	1.5E+01	3.0E-02 N		
ETHYLENE GLYCOL	107211	2.00E+00 I					7.3E-04 N	7.3E-03 N	2.7E-03 N	4.1E-06 N	1.6E-05 N				
ETHYLENE GLYCOL MONOBUTYL ETHER	111762	5.00E-01 I					1.8E-04 N	1.4E-04 N	6.8E-02 N	1.0E-06 N	3.9E-04 N				
ETHYLENE OXIDE	75218	8.00E-05 I	1.00E+00 H			3.50E-01 H, Y	2.3E-02 C	1.8E-02 C	3.2E-03 C	5.7E-00 C	6.4E-01 C	4.8E-06	9.9E-05 C		
ETHYLENE THIOUREA	96457	2.00E-01 I	1.1E-01 H				6.1E-01 C	5.7E-02 C	2.9E-02 C	5.2E-01 C	5.9E+00 C				
ETHYL ETHER	60297	2.00E-01 I				Y	1.2E-03 N	7.3E-02 N	2.7E-02 N	4.1E-05 N	1.6E-04 N	4.2E-01	8.5E-00 N		
ETHYL METHACRYLATE	97632	9.00E-02 H					5.5E-02 N	3.3E+02 N	1.2E+02 N	1.8E+05 N	7.0E-03 N	1.0E+00	2.1E-01 N		
FENAMIPHOS	2224926	2.50E-04 I					9.1E-00 N	9.1E-01 N	3.4E-01 N	5.1E-02 N	2.0E-01 N	7.8E-03	1.8E-01 N		
FLUOMETURON	216472	1.50E-02 I					4.7E-02 N	4.7E-01 N	1.8E-01 N	2.7E-04 N	1.0E-03 N				
FLUORINE	7782414	6.00E-02 I					2.2E+03 N	2.2E+02 N	8.1E+01 N	1.2E+05 N	4.7E+03 N				
FOMESAFEN	72178020						3.5E-01 N	3.3E-02 C	1.7E-02 C	3.0E-01 C	3.4E+00 C	1.8E-01	3.5E-00 N		
FONOFOS	944229	2.00E-03 I					7.3E-01 N	7.3E-00 N	2.7E+00 N	4.1E-03 N	1.6E-02 N	1.5E+00	3.0E+01 N		
FORMALDEHYDE	50000	2.00E-01 I				4.50E-02 I	7.3E-03 N	1.4E-01 C	2.7E+02 N	4.1E-05 N	1.8E-04 N	1.5E+00	3.0E+01 N		
FORMIC ACID	64186	2.00E+00 H					7.3E-04 N	7.3E-03 N	2.7E+03 N	4.1E-06 N	1.8E-05 N	1.5E+00	3.0E+01 N		
FURAN	110009	1.00E-03 I				Y	6.1E-00 N	3.7E+00 N	1.4E+00 N	2.0E+03 N	7.8E+01 N	1.5E-03	3.0E-02 N		
FURAZOLIDONE	67458		3.80E+00 H				1.8E-02 C	1.6E-03 C	8.3E-04 C	1.5E+00 C	1.7E-01 C	2.3E-02	4.8E-01 N		
FURFURAL	98011	3.00E-03 I		1.00E-02 A			1.1E-02 N	3.7E-01 N	4.1E+00 N	6.1E-03 N	2.3E+02 N	2.6E-01	5.3E-02 N		
GLYCIDALDEHYDE	765344	4.00E-04 I		2.90E-04 H			1.5E-01 N	1.1E+00 N	5.4E-01 N	8.2E-02 N	3.1E+01 N	4.2E-02	8.4E-01 C		
GLYPHOSATE	1071836	1.00E-01 I					3.7E-03 N	3.7E-02 N	1.4E+02 N	2.0E+05 N	7.8E+03 N	2.6E-01	5.3E-02 N		
HEPTACHLOR	76448	5.00E-04 I	4.50E+00 I			4.50E+00 I	1.5E-02 C	1.4E-03 C	7.0E-04 C	1.3E-00 C	1.4E-01 C	1.2E-03	2.5E-02 C		
HEPTACHLOR EPOXIDE	1024573	1.30E-05 I	9.10E+00 I			9.10E+00 I	7.4E-03 C	6.9E-04 C	3.5E-04 C	6.3E-01 C	7.0E-02 C	4.2E-02	8.4E-01 C		
HEXABROMOBENZENE	87821	2.00E-03 I	1.60E+00 I			1.60E+00 I	7.3E-01 N	7.3E+00 N	2.7E+00 N	4.1E-03 N	1.6E-02 N	2.6E-03	5.2E-02 C		
HEXACHLOROBENZENE	118741	8.00E-04 I	1.60E+00 I			1.60E+00 I	4.2E-02 C	3.9E-03 C	2.0E-03 C	3.8E+00 C	4.0E-01 C	9.2E-02	1.8E-00 C		
HEXACHLOROBUTADIENE	87893	2.00E-04 H	7.80E-02 I			1.80E+00 I	1.1E-02 C	9.9E-04 C	5.0E-04 C	9.1E-01 C	1.0E-01 C	4.5E-05	8.9E-04 C		
ALPHA-HCH	319845	1.80E+00 I				1.80E+00 I	3.7E-02 C	3.9E-03 C	1.8E-03 C	3.2E+00 C	3.5E-01 C	1.6E-04	3.1E-03 C		
BETA-HCH	319857	1.80E+00 I				1.80E+00 I	5.2E-02 C	4.8E-03 C	2.4E-03 C	4.4E+00 C	4.9E-01 C	2.2E-04	4.3E-03 C		
GAMMA-HCH (LINDANE)	59899	1.80E+00 I				1.80E+00 I	3.7E-02 C	3.9E-03 C	1.8E-03 C	3.2E+00 C	3.5E-01 C	8.8E-01	1.8E-03 N		
TECHNICAL HCH	608731	6.00E-03 I		5.7E-05 I		4.55E+03 I	2.2E+02 N	2.1E-01 N	8.1E+02 N	1.2E+04 N	4.7E+02 N	9.8E+01	1.8E-03 N		
**HEXACHLOROCYCLOPENTADIENE	77474					1.40E-02 I	1.1E-05 C	1.4E-06 C	5.3E-07 C	9.2E-04 C	1.0E-04 C	1.8E-02	3.6E-01 C		
HEXACHLORODIBENZODIOXIN MIX	19408743	67721	8.20E+03 I				4.8E+00 C	4.5E-01 C	2.3E-01 C	4.1E-02 C	4.6E+01 C	1.0E-02	2.0E-03 N		
HEXACHLOROTHANE	70304	1.00E-03 I	1.40E-02 I			1.70E-01 I	1.1E+01 N	1.1E+00 N	4.1E-01 N	6.1E-02 N	2.3E-01 N	6.9E-01	1.4E-01 N		
HEXACHLOROPHENE	82060	3.00E-04 I		2.90E-06 I			3.5E-02 N	2.1E-02 N	8.1E-01 N	1.2E-05 N	4.7E-03 N				
1,8-HEXAMETHYLENE DIISOCYANATE	110543	6.00E-02 H		5.7E-02 I		Y	1.5E-03 N	5.4E-01 N	5.4E-01 N	3.2E-04 N	3.1E-03 N				
HEXANE	581786	4.00E-02 E		1.4E-03 E			1.2E-03 N	1.2E-02 N	4.5E-01 N	6.7E-04 N	2.8E-03 N				
2-HEXANONE	51235042	3.30E-02 I					1.8E-03 N	1.8E-02 N	6.8E+01 N	1.0E-06 N	3.9E-03 N				
HEXAZINONE	2691410	5.00E-02 I					2.2E-02 C	3.7E-04 C	1.1E-03 C	1.9E-00 C	2.1E-01 C				
HMX	302012		3.00E+00 I				2.2E-02 C	2.1E-01 N							
HYDRAZINE	7647010						1.1E-02 N								
HYDROGEN CHLORIDE	7732064	3.00E-03 I		5.70E-03 I			1.1E-02 N	1.0E+00 N	4.1E+00 N	6.1E-03 N	2.3E+02 N				
HYDROGEN SULFIDE	123319	4.00E-02 H		2.85E-04 I			1.5E-03 N	1.5E-02 N	5.4E-01 N	8.2E-04 N	3.1E-03 N				
HYDROQUINONE	7439896	6.00E-01 E					2.2E-04 N	2.2E-03 N	8.1E-02 N	1.2E-06 N	4.7E-04 N				
**IRON	78831	3.00E-01 I				Y	1.8E+03 N	1.1E+03 N	4.1E-03 N	6.1E-05 N	2.3E-04 N	5.9E-01	1.2E-01 N		
ISOBUTANOL	78591	2.00E-01 I	9.50E-04 I				7.0E-01 C	6.8E+00 C	3.3E-00 C	6.0E-03 C	6.7E-02 C	2.1E-02	4.1E-01 C		
ISOPHORONE	33820530	1.50E-02 I					5.5E-02 N	5.5E-01 N	2.0E-01 N	3.1E-04 N	1.2E-03 N				
ISOPROPYL	183248	1.00E-01 I					3.7E-03 N	3.7E-02 N	1.4E-02 N	2.0E-05 N	7.8E-03 N	4.6E-05	9.2E-04 N		
ISOPROPYL METHYL PHOSPHONIC ACID	78002	1.00E-07 I					7.3E-02 N	7.3E-01 N	2.7E-01 N	4.1E-04 N	1.6E-03 N	4.0E-01	8.1E-00 N		
TETRAETHYLEAD	7439932	2.00E-02 E					7.3E-02 N	7.3E-01 N	2.7E-01 N	4.1E-04 N	1.6E-03 N				
LITHIUM	121765	2.00E-02 I					3.7E-03 N	3.7E-02 N	1.4E-02 N	2.0E-05 N	7.8E-03 N	4.8E-01	9.5E-02 N		
MALATHION	108316	1.00E-01 I					7.3E-02 N	5.2E-02 N	2.7E-01 N	4.1E-04 N	1.6E-03 N	3.3E-02	6.7E-03 N		
MALEIC ANHYDRIDE	7439965	2.00E-02 I		1.43E-05 I			5.1E-03 N	5.2E-02 N	1.9E-02 N	2.9E-05 N	1.1E-04 N				
MANGANESE-NONFOOD	7439965	1.40E-01 I		1.43E-05 I			3.3E-00 N	3.3E-01 N	1.2E-01 N	1.8E-02 N	7.0E+00 N				
MANGANESE-FOOD	950107	9.00E-05 H					1.1E-03 N	1.1E-02 N	4.1E-01 N	6.1E-04 N	2.3E-03 N				
MEPHOSFOLAN	24307264	3.00E-02 I					1.1E-03 N	1.1E-02 N	4.1E-01 N	6.1E-04 N	2.3E-03 N				
MEPIQUAT CHLORIDE	7487947						1.1E-01 N	1.1E+00 N	4.1E-01 N	6.1E-02 N	2.3E-01 N				
MERCURIC CHLORIDE	7439976						3.1E-01 N	3.1E+00 N	1.4E-01 N	2.0E-02 N	7.8E-00 N				
MERCURY (INORGANIC)	22967326	1.00E-04 I					3.7E-00 N	3.7E-01 N	1.4E-01 N	2.0E-02 N	7.8E-00 N	2.1E-04	4.2E-03 N		
METHYLMERCURY	126987	1.00E-04 I		2.00E-04 A		Y	1.0E+00 N	7.3E-01 N	1.4E-01 N	2.0E-02 N	7.8E-00 N	3.8E-00	7.5E-01 N		
METHACRYLONITRILE	67561	5.00E-01 I					1.3E-04 N	1.3E-03 N	6.8E-02 N	1.0E-06 N	3.9E-04 N				
METHANOL	950378	1.00E-03 I					3.7E-01 N	3.7E+00 N	1.4E+00 N	2.0E-03 N	7.8E-01 N				
METHIDATHION	72435	5.00E-03 I					1.8E-02 N	1.8E-01 N	6.8E+00 N	1.0E-04 N	3.9E-02 N	1.5E-01	3.1E-02 N		
METHOXYCHLOR	79209	1.00E+00 H				Y	6.1E+03 N	3.7E+03 N	1.4E+03 N	2.0E+06 N	7.8E+04 N	1.2E+00	2.5E-01 N		
METHYL ACETATE	96333	3.00E+00 H				Y	1.8E+02 N	1.1E-02 N	4.1E-01 N	6.1E-04 N	2.3E+03 N	5.0E-01	1.0E-01 N		
METHYL ACRYLATE	96333	3.00E-02 A				Y	2.8E-01 C	2.6E-02 C	1.3E-02 C	2.4E-01 C	7.8E-02 N	2.8E-04	5.7E-03 C		
2-METHYLANILINE	95334						3.7E-02 N	3.7E-01 N	1.4E-01 N	2.0E-04 N	7.8E-02 N				
4-(2-METHYL-4-CHLOROPHENOXY) BUTYRIC ACID	94815	1.00E-02 I		2.40E-01 H											

Sources: 1 = IRIS H = HE-01 A = HEAST Alameda W = Withdrawn from IRIS or HEAST
E = EPA-NCEA provisional value O = other

Chemical	CAS	RfDo mg/kg/d	CSFo 1/mg/kg/d	RfDi mg/kg/d	CSFi 1/mg/kg/d	VOC	Risk-based concentrations					Region III SSLs	
							Tap water ug/l	Ambient air ug/m3	Fish mg/kg	Soil Industrial mg/kg	Residential mg/kg	DAF 1 mg/kg	DAF 20 mg/kg
2-METHYL-4-CHLOROPHENOXYACETIC ACID (MCPA)	94746	5.00E-04					1.8E+01 N	1.8E+00 N	6.8E+01 N	1.0E+03 N	3.9E+01 N		
2-2-METHYL-4-CHLOROPHENOXYPROPIONIC ACID	93652	1.00E-03					3.7E+01 N	3.7E+00 N	1.4E+00 N	2.0E+03 N	7.8E+01 N		
METHYLCYCLOHEXANE	108872					Y	6.3E+03 N	3.1E+03 N					
METHYLENE BROMIDE	74953	1.00E-02 A		6.90E-01 H			6.1E+01 N	3.7E+01 N	1.4E+01 N	2.0E+04 N	7.8E+02 N		
METHYLENE CHLORIDE	75092	6.00E-02	7.60E-03	6.60E-01 H	1.6E-03	Y	4.1E+00 C	3.8E+00 C	4.2E+01 C	7.6E+02 C	8.5E+01 C	1.5E-02	3.0E-01 N
4,4'-METHYLENE BIS(2-CHLOROANILINE)	101144	7.00E-04 H	1.30E-01 H		1.30E-01 H		5.2E+01 C	4.8E+02 C	2.4E+02 C	4.4E+01 C	4.9E+00 C	9.5E-04	1.9E-02 C
4,4'-METHYLENE BIS(N,N-DIMETHYLANILINE)	101611	4.80E-02					1.5E+00 C	1.4E+01 C	5.9E+02 C	1.2E+02 C	1.4E+01 C		
4,4'-METHYLENEDIPHENYL ISOCYANATE	101693							6.2E+01 N					
METHYL ETHYL KETONE (2-BUTANONE)	78933	6.00E-01		1.7E-04		Y	1.9E+03 N	1.0E+03 N	8.1E+02 N	1.2E+06 N	4.7E+04 N	4.0E-01	7.9E+00 N
METHYL HYDRAZINE	60344			2.8E-01			6.1E+02 C	5.7E+03 C		5.2E+00 C	5.8E+01 C		
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	108101	8.00E-02 H		2.00E-02 A		Y	1.4E+02 N	7.3E+01 N	1.1E+02 N	1.6E+05 N	6.3E+03 N	5.5E-02	1.3E+00 N
METHYL METHACRYLATE	90626	1.40E-00		2.00E-01		Y	1.4E+03 N	7.3E+02 N	1.9E+03 N	2.9E+06 N	1.1E+05 N	3.2E-01	6.5E+00 N
2-METHYL-5-NITROANILINE	99558	3.30E-02 H					2.0E+00 C	1.9E+01 C	9.6E+02 C	1.7E+02 C	1.9E+01 C		
METHYL PARATHION	298000	2.50E-04					9.1E+00 N	9.1E+01 N	3.4E+01 N	5.1E+02 N	2.0E+01 N	4.3E-03	8.5E-02 N
2-METHYLPHENOL	95487	5.00E-02					1.8E+03 N	1.8E+02 N	6.8E+01 N	1.0E+05 N	3.9E+03 N		
3-METHYLPHENOL	108394	5.00E-02					1.8E+03 N	1.8E+02 N	6.8E+01 N	1.0E+05 N	3.9E+03 N		
4-METHYLPHENOL	105445	5.00E-03 H					1.8E+02 N	1.8E+01 N	6.8E+00 N	1.0E+04 N	3.9E+02 N		
METHYLSTYRENE MIX	25013154	6.00E-03 A		1.00E-02 A		Y	5.5E+01 N	3.7E+01 N	8.1E+00 N	1.2E+04 N	4.7E+02 N	5.1E-02	1.0E+00 N
ALPHA-METHYLSTYRENE	98539	7.00E-02 A				Y	4.3E+02 N	2.8E+02 N	9.5E+01 N	1.4E+05 N	5.8E+03 N	4.0E-01	7.9E+00 N
METHYL TERT-BUTYL ETHER	1634044			8.57E-01		Y	6.3E+03 N	3.1E+03 N	2.0E+02 N	3.1E+05 N	1.2E+04 N	1.4E+00	2.8E+01 N
METOLACHLOR (DUAL)	51218452	1.50E-01					5.5E+03 N	5.5E+02 N	2.7E+01 N	4.1E+02 N	1.8E+01 N		
MIREX	2385955	2.00E-04					7.3E+00 N	7.3E+01 N	6.8E+00 N	1.0E+04 N	3.9E+02 N		
MOLYBDENUM	7439987	5E-03					1.8E+02 N	1.8E+01 N	6.8E+00 N	1.0E+04 N	3.9E+02 N		
MONOCHLORAMINE	10699903	1E-01		1.00E-01 H			3.7E+03 N	3.7E+02 N	1.4E+02 N	2.0E+06 N	7.8E+03 N		
NALED	300765	2E-03					7.3E+01 N	7.3E+00 N	2.7E+00 N	4.1E+03 N	1.8E+02 N		
NICKEL REFINERY DUST				8.4E-01				7.5E+03 C					
NICKEL	7440020	2.00E-02					7.3E+02 N	7.3E+01 N	2.7E+01 N	4.1E+04 N	1.8E+03 N		
NITRATE	14797558	1.60E+00					5.8E+04 N	5.8E+03 N	2.2E+03 N	3.3E+06 N	1.3E+05 N		
NITRIC OXIDE	10102439	1.00E-01 W				Y	6.1E+02 N	3.7E+02 N	1.4E+02 N	2.0E+05 N	7.8E+03 N		
NITRITE	14797650	1.00E-01					3.7E+03 N	3.7E+02 N	1.4E+02 N	2.0E+05 N	7.8E+03 N		
2-NITROANILINE	88744			5.70E-05 H				2.1E+01 N					
NITROBENZENE	98953	5.00E-04		6.00E-04 A		Y	3.5E+00 N	2.2E+00 N	6.8E+01 N	1.0E+03 N	3.9E+01 N	1.2E-03	2.3E-02 N
NITROFURANTION	67209	7.00E-02 H					2.6E+03 N	2.6E+02 N	9.5E+01 N	1.4E+06 N	5.8E+03 N		
NITROFURAZONE	59970						4.5E+02 C	4.2E+03 C	2.1E+03 C	3.9E+00 C	4.3E+01 C		
NITROGEN DIOXIDE	10102440	1.00E+00 W				Y	6.1E+03 N	3.7E+03 N	1.4E+03 N	2.0E+06 N	7.8E+04 N		
NITROGLYCERIN	55630			1.4E-02 E			4.8E+00 C	4.5E+01 C	2.3E+01 C	4.1E+02 C	4.6E+01 C		
4-NITROPHENOL	100227	8.00E-03 E					2.9E+02 N	2.9E+01 N	1.1E+01 N	1.6E+04 N	6.3E+02 N	8.7E-02	1.7E+00 N
2-NITROPROPANE	79469			5.70E-03		Y	1.3E+03 C	6.7E+04 C				3.2E+07	6.4E+06 C
N-NITROSO-D,N-BUTYLAMINE	924163	5.40E+00		5.60E+00		Y	1.9E+03 C	1.1E+03 C	5.8E+04 C	1.1E+00 C	1.2E+01 C	1.4E-06	2.7E+05 C
N-NITROSDIETHANOLAMINE	1116547	2.80E+00					2.4E+02 C	2.2E+03 C	1.1E+03 C	2.0E+00 C	2.3E+01 C		
N-NITROSDIMETHYLAMINE	55185	1.50E+02					4.5E+04 C	4.2E+05 C	2.1E+05 C	3.8E+02 C	4.3E+03 C	1.1E-07	2.3E+06 C
N-NITROSDIMETHYLAMINE	62759	5.10E+01					1.3E+03 C	1.2E+04 C	6.2E+05 C	1.1E+01 C	1.3E+02 C	2.8E-07	5.7E+06 C
N-NITROSDIPHENYLAMINE	86306	4.90E+03					1.4E+01 C	1.3E+00 C	6.4E+01 C	1.2E+03 C	1.3E+02 C	9.8E-02	7.6E+01 C
N-NITROSDIPROPYLAMINE	621647	7.00E+00					9.6E+03 C	8.9E+04 C	4.5E+04 C	8.2E+01 C	9.1E+02 C	2.4E+08	4.7E+05 C
N-NITROSO-N-ETHYLUREA	799739	1.40E+02 H					4.8E+04 C	4.5E+05 C	2.3E+05 C	4.1E+02 C	4.6E+03 C		
N-NITROSO-N-METHYLETHYLAMINE	10595956	2.20E+01					3.0E+03 C	2.8E+04 C	1.4E+04 C	2.9E+02 C	2.9E+02 C		
N-NITROSOPIRROLIDINE	930552	2.10E+00					9.2E+02 C	3.0E+03 C	1.5E+03 C	2.7E+00 C	3.0E+01 C		
N-NITROTOLUENE	99081	2.00E-02 E				Y	1.2E+02 N	7.3E+01 N	2.7E+01 N	4.1E+04 N	1.6E+03 N		
O-NITROTOLUENE	88722	1.00E+02 H				Y	6.1E+01 N	3.7E+01 N	1.4E+01 N	2.0E+04 N	7.8E+02 N		
P-NITROTOLUENE	99990	1.00E+02 H				Y	6.1E+01 N	3.7E+01 N	1.4E+01 N	2.0E+04 N	7.8E+02 N		
NIUSTAR	85508199	7.00E-04					2.6E+01 N	2.6E+00 N	9.5E+01 N	1.4E+03 N	5.5E+01 N		
ORYZALIN	19044883	5.00E-02					1.8E+03 N	1.8E+02 N	6.8E+01 N	1.0E+05 N	3.9E+03 N		
OXADIAZON	1966309	5.00E-03					1.8E+02 N	1.8E+01 N	6.8E+00 N	1.0E+04 N	3.9E+02 N	1.9E-01	3.8E+00 N
OXAMYL	23136220	2.50E-02					9.1E+02 N	9.1E+01 N	3.4E+01 N	5.1E+04 N	2.0E+03 N		
PARAQUAT DICHLORIDE	1910425	4.50E+03					1.1E+02 N	1.1E+01 N	4.1E+00 N	6.1E+03 N	2.3E+02 N		
PARATHION	56932	6.00E-03 H					1.6E+02 N	1.6E+01 N	6.1E+00 N	9.2E+03 N	3.5E+02 N		
PENTACHLOROBENZENE	608935	8.00E-04					2.2E+02 N	2.2E+01 N	8.1E+00 N	1.2E+04 N	4.7E+02 N	5.0E-01	1.0E+01 N
PENTACHLORONITROBENZENE	82688	3.00E-03		2.60E-01 H			2.9E+01 N	2.9E+00 N	1.1E+00 N	1.6E+03 N	6.3E+01 N	1.0E+00	2.0E+01 N
PENTACHLOROPHENOL	87865	3.00E-02		1.20E+01			2.9E+01 N	2.9E+00 N	1.1E+00 N	1.6E+03 N	6.3E+01 N	4.1E-03	8.2E-02 C
PERMETHRIN	52454531	5.00E-02					2.6E+01 C	2.4E+02 C	1.2E+02 C	2.2E+01 C	2.5E+00 C		
PHENOL	108952	6.00E-01					5.8E+01 C	5.2E+02 C	2.6E+02 C	4.8E+01 C	5.3E+00 C		
M-PHENYLENEDIAMINE	109452	6.00E-03					1.8E+03 N	1.8E+02 N	6.8E+01 N	1.0E+05 N	3.9E+03 N		
O-PHENYLENEDIAMINE	95545						2.2E+04 N	2.2E+03 N	8.1E+02 N	1.2E+06 N	4.7E+04 N	4.9E-02	9.8E-01 N
P-PHENYLENEDIAMINE	106503	1.90E-01 H		4.70E-02 H			1.4E+00 C	1.3E+01 C	5.7E+02 C	1.2E+02 C	1.4E+01 C		

Sources: 1 = IRIS H₂ H₂ H₂ A = HEAST Alternates W = Withdrawn from IRIS or HEAST
E = EPA-NCEA provisional value O = other

Chemical	CAS	RIDO mg/kg	CSF ₀ 1/mg/kg	RID ₁ mg/kg	CSF ₁ 1/mg/kg	Tap water ug/l	Risk-based concentrations				Region III SSLs	
							Ambient air ug/m ³	Fish mg/kg	Soil Industrial mg/kg	Residential mg/kg	DAF 1 mg/kg	DAF 20 mg/kg
2-PHENYLPHENOL	90437	3.00E-04	1.90E-03	8.60E-05	2.90E-03	1.1E-01	3.5E-01	1.7E-00	3.0E-03	3.4E-02		
PHOSPHINE	7803512	2.00E-00	2.00E-00	2.00E-00	2.00E-00	1.1E-01	3.1E-01	4.1E-01	6.1E-02	2.3E-01		
PHOSPHORIC ACID	7664382	2.00E-05	2.00E-05	2.00E-05	2.00E-05	7.3E-01	7.3E-02	2.7E-02	4.1E-01	1.6E-00		
PHTHALIC ACID	7632140	1.00E-00	1.00E-00	1.00E-00	1.00E-00	3.7E-04	3.7E-03	1.4E-03	2.0E-06	7.8E-04		
PHTHALIC ANHYDRIDE	85449	7.00E-06	7.00E-06	7.00E-06	7.00E-06	7.3E-04	1.3E-02	2.7E-03	4.1E-06	1.6E-05		
POLYBROMINATED BIPHENYLS	1366963	7.00E-05	7.00E-05	7.00E-05	7.00E-05	7.5E-03	3.5E-04	3.5E-04	6.4E-01	7.2E-02		
POLYCHLORINATED BIPHENYLS	12674112	2.00E-00	2.00E-00	2.00E-00	2.00E-00	3.1E-03	3.1E-03	1.6E-03	2.9E-00	3.2E-01		
AROCLOR-1016	11104282	2.00E-00	2.00E-00	2.00E-00	2.00E-00	3.1E-03	3.1E-03	1.6E-03	2.9E-00	3.2E-01		
AROCLOR-1221	11141165	2.00E-00	2.00E-00	2.00E-00	2.00E-00	3.1E-03	3.1E-03	1.6E-03	2.9E-00	3.2E-01		
AROCLOR-1232	53469219	2.00E-00	2.00E-00	2.00E-00	2.00E-00	3.1E-03	3.1E-03	1.6E-03	2.9E-00	3.2E-01		
AROCLOR-1242	12672296	2.00E-00	2.00E-00	2.00E-00	2.00E-00	3.1E-03	3.1E-03	1.6E-03	2.9E-00	3.2E-01		
AROCLOR-1248	11097691	2.00E-00	2.00E-00	2.00E-00	2.00E-00	3.1E-03	3.1E-03	1.6E-03	2.9E-00	3.2E-01		
AROCLOR-1254	11096825	2.00E-00	2.00E-00	2.00E-00	2.00E-00	3.1E-03	3.1E-03	1.6E-03	2.9E-00	3.2E-01		
AROCLOR-1260	61786338	4.50E-00	4.50E-00	4.50E-00	4.50E-00	1.5E-02	1.4E-03	7.0E-04	1.3E-00	1.4E-01		
POLYCHLORINATED TERPHENYLS												
POLYNUCLEAR AROMATIC HYDROCARBONS:												
ACENAPHTHENE	83329	6.00E-02	6.00E-02	6.00E-02	6.00E-02	3.7E-02	2.2E-02	8.1E-01	1.2E-05	4.7E-03		
ANTHRACENE	120127	3.00E-01	3.00E-01	3.00E-01	3.00E-01	1.8E-03	1.1E-03	4.1E-02	6.1E-06	2.3E-04		
BENZ[A]ANTHRACENE	56553	7.30E-01	7.30E-01	7.30E-01	7.30E-01	9.2E-02	8.6E-03	4.3E-03	7.8E-00	8.7E-01		
BENZ[B]FLUORANTHENE	205992	7.30E-01	7.30E-01	7.30E-01	7.30E-01	9.2E-02	8.6E-03	4.3E-03	7.8E-00	8.7E-01		
BENZ[K]FLUORANTHENE	207089	7.30E-01	7.30E-01	7.30E-01	7.30E-01	9.2E-01	8.6E-02	4.3E-02	7.8E-01	8.7E-01		
BENZ[DE]FLUORANTHENE	50328	7.30E-01	7.30E-01	7.30E-01	7.30E-01	9.2E-03	2.0E-03	4.3E-04	7.8E-01	8.7E-02		
CARBAZOLE	86748	2.00E-02	2.00E-02	2.00E-02	2.00E-02	3.3E-00	3.1E-01	1.6E-01	2.9E-02	3.2E-01		
CHRYSENE	218019	7.30E-03	7.30E-03	7.30E-03	7.30E-03	9.2E-00	8.6E-01	4.3E-01	7.8E-02	8.7E-01		
DIBENZ[A,H]ANTHRACENE	53703	7.30E-00	7.30E-00	7.30E-00	7.30E-00	9.2E-03	8.6E-04	4.3E-04	7.8E-01	8.7E-02		
DIBENZOFURAN	132649	4.00E-03	4.00E-03	4.00E-03	4.00E-03	2.4E-01	1.5E-01	5.4E-00	8.2E-03	3.1E-02		
FLUORANTHENE	206440	4.00E-02	4.00E-02	4.00E-02	4.00E-02	1.5E-03	1.5E-02	5.4E-01	8.2E-04	3.1E-03		
INDEN[1,2,3-C,D]PYRENE	91578	7.30E-01	7.30E-01	7.30E-01	7.30E-01	9.2E-02	8.6E-03	4.3E-03	7.8E-00	8.7E-01		
2-METHYLNAPHTHALENE	91203	2.00E-02	2.00E-02	2.00E-02	2.00E-02	6.9E-00	7.3E-01	2.7E-01	4.1E-04	1.6E-03		
NAPHTHALENE	129000	3.00E-02	3.00E-02	3.00E-02	3.00E-02	1.8E-02	1.1E-02	4.1E-01	6.1E-04	2.3E-03		
PYRENE	1610180	1.50E-02	1.50E-02	1.50E-02	1.50E-02	5.5E-02	5.5E-01	2.0E-01	3.1E-04	1.2E-03		
PROMETON	7287196	4.00E-03	4.00E-03	4.00E-03	4.00E-03	1.5E-02	1.5E-01	5.4E-00	8.2E-03	3.1E-02		
PROMETRYN	1918167	1.30E-02	1.30E-02	1.30E-02	1.30E-02	4.7E-01	1.8E-01	6.8E-00	1.0E-04	3.9E-02		
PROPACHLOR	708988	5.00E-03	5.00E-03	5.00E-03	5.00E-03	1.8E-02	1.8E-01	6.8E-00	1.0E-04	3.9E-02		
PROPANIL	2312358	2.00E-02	2.00E-02	2.00E-02	2.00E-02	7.3E-02	7.3E-01	2.7E-01	4.1E-04	1.6E-03		
PROPYL BENZENE	103651	4.00E-02	4.00E-02	4.00E-02	4.00E-02	2.4E-02	1.5E-02	5.4E-01	8.2E-04	3.1E-03		
PROPYLENE GLYCOL MONOETHYL ETHER	57556	2.00E-01	2.00E-01	2.00E-01	2.00E-01	7.3E-05	7.3E-04	2.7E-04	4.1E-07	1.6E-06		
PROPYLENE GLYCOL	5212538	7.00E-01	7.00E-01	7.00E-01	7.00E-01	2.6E-04	2.6E-03	9.5E-02	1.4E-06	5.5E-04		
PROPYLENE GLYCOL MONOMETHYL ETHER	107982	7.00E-01	7.00E-01	7.00E-01	7.00E-01	2.6E-04	2.6E-03	9.5E-02	1.4E-06	5.5E-04		
PURSUIT	81335775	2.50E-01	2.50E-01	2.50E-01	2.50E-01	9.1E-03	9.1E-02	3.4E-02	2.0E-05	2.0E-04		
PYRIDINE	110861	1.00E-03	1.00E-03	1.00E-03	1.00E-03	3.7E-01	3.7E-00	1.4E-00	2.0E-03	7.8E-01		
QUINOLINE	91225	1.20E-01	1.20E-01	1.20E-01	1.20E-01	5.6E-03	5.2E-04	2.8E-04	4.8E-01	5.3E-02		
RDX	121824	3.00E-03	3.00E-03	3.00E-03	3.00E-03	6.1E-01	6.1E-02	2.9E-02	5.2E-01	5.8E-00		
RESMETHRIN	10453868	3.00E-02	3.00E-02	3.00E-02	3.00E-02	1.1E-03	1.1E-02	4.1E-01	8.1E-04	2.3E-03		
ROTENONE	296843	5.00E-02	5.00E-02	5.00E-02	5.00E-02	1.8E-03	1.8E-02	6.8E-01	1.0E-05	3.9E-03		
SELENIUM ACID	85794	4.00E-03	4.00E-03	4.00E-03	4.00E-03	1.5E-01	1.5E-01	5.4E-00	8.2E-03	3.1E-02		
SELENIUM	7782492	5.00E-03	5.00E-03	5.00E-03	5.00E-03	1.8E-02	1.8E-01	6.8E-00	1.0E-04	3.9E-02		
SILVER	7440224	5.00E-03	5.00E-03	5.00E-03	5.00E-03	1.8E-02	1.8E-01	6.8E-00	1.0E-04	3.9E-02		
SIMAZINE	122349	5.00E-03	5.00E-03	5.00E-03	5.00E-03	1.8E-02	1.8E-01	6.8E-00	1.0E-04	3.9E-02		
SODIUM AZIDE	2662228	4.00E-03	4.00E-03	4.00E-03	4.00E-03	1.5E-02	1.5E-01	5.4E-00	8.2E-03	3.1E-02		
SODIUM DIETHYL DITHIOCARBAMATE	148195	3.00E-02	3.00E-02	3.00E-02	3.00E-02	2.5E-01	2.5E-02	1.2E-02	2.1E-01	2.4E-00		
STRONTIUM, STABLE	7440246	6.00E-01	6.00E-01	6.00E-01	6.00E-01	2.2E-04	2.2E-03	8.1E-02	1.2E-06	4.7E-04		
STYRENE	57249	3.00E-04	3.00E-04	3.00E-04	3.00E-04	1.1E-01	1.1E-00	4.1E-01	6.1E-02	2.3E-01		
2,3,7,8-TETRACHLORODIBENZODIOXIN	1746016	1.50E-05	1.50E-05	1.50E-05	1.50E-05	1.6E-03	1.6E-03	2.7E-02	4.1E-05	1.6E-04		
1,2,4,5-TETRACHLOROBENZENE	95943	3.00E-04	3.00E-04	3.00E-04	3.00E-04	4.5E-07	4.5E-08	2.1E-08	3.8E-05	4.3E-06		
1,1,1,2-TETRACHLOROETHANE	630206	2.60E-02	2.60E-02	2.60E-02	2.60E-02	1.1E-01	1.1E-01	4.1E-01	6.1E-02	2.3E-01		
1,1,2,2-TETRACHLOROETHANE	79345	2.00E-01	2.00E-01	2.00E-01	2.00E-01	4.1E-01	4.1E-01	1.6E-01	2.9E-02	3.2E-01		
TETRACHLOROETHENE	127184	1.00E-02	1.00E-02	1.00E-02	1.00E-02	3.1E-00	3.1E-00	6.1E-02	1.1E-02	1.2E-01		
2,3,4,6-TETRACHLOROPHENOL	58902	3.00E-02	3.00E-02	3.00E-02	3.00E-02	1.1E-03	1.1E-02	4.1E-01	6.1E-04	2.3E-03		
P.A.A.-TETRACHLOROTOLUENE	5216251	2.00E-01	2.00E-01	2.00E-01	2.00E-01	3.1E-04	3.1E-04	1.9E-04	2.9E-01	3.2E-02		

Source: 1 = IRIS; H = HEAST; A = HEAST Alternates; W = Withdrawn from IRIS or HEAST
E = EPA-NCEA provisional value; O = other

Chemical	CAS	RfDo mg/kg/d	CSF ₀ 1/mg/kg/d	RfDi mg/kg/d	CSF ₁ 1/mg/kg/d	VOC	Risk-based concentrations				Region III SSLs	
							Tap water ug/l	Ambient air ug/m ³	Fish mg/kg	Soil Industrial mg/kg	Residential mg/kg	Soil, for groundwater migration DAF 1 mg/kg
1,1,1,2-TETRAFLUOROETHANE	811972			2,29E-01 I	6.8E-03 E	Y	1.7E+05 N	8.4E+04 N	4.2E-01 C	7.5E+02 C	8.4E+01 C	
TETRAHYDROFURAN	109999	2.00E-01 E	7.6E-03 E	8.6E-02 E	6.8E-03 E		8.8E+00 C	9.2E-01 C	1.4E+01 N	2.0E+04 N	7.8E+02 N	
TETRYL	479459	1.00E-02 H					3.7E+02 N	3.7E+01 N	9.5E-02 N	1.4E+02 N	5.9E+00 N	
THALLIC OXIDE	1314325	7.00E-05 W					2.6E+00 N	2.6E-01 N	9.5E-02 N	1.4E+02 N	5.9E+00 N	
THALLIUM	7440280	7.00E-05 O					2.6E+00 N	2.6E-01 N	9.5E-02 N	1.4E+02 N	5.9E+00 N	
THALLIUM ACETATE	563689	9.00E-05 I					3.3E+00 N	3.3E-01 N	1.2E+01 N	1.8E+02 N	7.0E+00 N	
THALLIUM CARBONATE	653739	8.00E-05 I					2.9E+00 N	2.9E-01 N	1.1E+01 N	1.6E+02 N	6.3E+00 N	
THALLIUM CHLORIDE	7791120	8.00E-05 I					2.9E+00 N	2.9E-01 N	1.1E+01 N	1.6E+02 N	6.3E+00 N	
THALLIUM NITRATE	10102451	9.00E-05 I					3.3E+00 N	3.3E-01 N	1.2E+01 N	1.8E+02 N	7.0E+00 N	
THALLIUM SULFATE (2:1)	7446186	8.00E-05 I					2.9E+00 N	2.9E-01 N	1.1E+01 N	1.6E+02 N	6.3E+00 N	
THIOBENCARB	29248776	1.00E-02 I					3.7E+01 N	1.4E+01 N	1.4E+01 N	2.0E+04 N	7.8E+02 N	
TIN	7440315	6.00E-01 H					2.2E+04 N	2.2E+03 N	8.1E+02 N	1.2E+06 N	4.7E+04 N	
TITANIUM	7440326	4.00E+00 E		8.00E-03 E			1.5E+05 N	3.1E+01 N	5.4E+03 N	8.2E+06 N	3.1E+05 N	
TITANIUM DIOXIDE	13463677	4.00E+00 E		8.00E-03 E			1.5E+05 N	3.1E+01 N	5.4E+03 N	8.2E+06 N	3.1E+05 N	
TOLUENE	108883	2.00E-01 I		1.14E-01 I			7.5E+02 N	4.2E+02 N	2.7E+02 N	4.1E+06 N	1.8E+04 N	
TOLUENE-2,4-DIAMINE	55807	3.20E+00 H				Y	2.1E+02 C	2.0E-03 C	9.9E-04 C	1.8E+00 C	2.0E-01 C	
TOLUENE-2,6-DIAMINE	95705	6.00E-01 H					2.2E+04 N	2.2E+03 N	8.1E+02 N	1.2E+06 N	4.7E+04 N	
TOLUENE-2,8-DIAMINE	823405	2.00E-01 H					7.3E+03 N	7.3E+02 N	2.7E+02 N	4.1E+06 N	1.8E+04 N	
P-TOLUIDINE	106490	1.90E-01 H					3.5E-01 C	3.3E-02 C	1.7E-02 C	3.0E+01 C	3.4E+00 C	
TOXAPHENE	80013521	1.10E+00 I			1.10E+00 I		6.1E-02 C	5.7E-03 C	2.9E-03 C	5.2E+00 C	5.8E-01 C	
1,2,4-TRIBROMOBENZENE	615543	5.00E-03 I					1.8E+02 N	1.8E-01 N	8.8E+00 N	1.0E+04 N	3.9E+02 N	
TRIBUTYL TIN OXIDE	56359	3.00E-04 I					1.1E+01 N	1.1E+00 N	4.1E-01 N	6.1E+02 N	2.3E+01 N	
2,4,6-TRICHLOROANILINE	634935	1.00E-02 I		5.70E-02 H		Y	2.0E+00 C	1.8E-01 C	9.3E-02 C	1.7E+02 C	1.9E+01 C	
1,2,4-TRICHLOROBENZENE	120621	2.90E-01 E		6.30E-01 E			1.9E+02 N	2.1E+02 N	1.4E-01 N	2.0E+04 N	7.8E+02 N	
1,1,1-TRICHLOROETHANE	71656	2.90E-01 E		6.30E-01 E			3.2E-03 N	2.3E+03 N	3.8E+02 N	5.7E+05 N	2.2E+04 N	
1,1,2-TRICHLOROETHANE	79005	4.00E-03 I		5.70E-02 I		Y	1.9E-01 C	1.1E-01 C	5.5E-02 C	1.0E+02 C	1.1E+01 C	
TRICHLOROETHENE	79016	6.00E-03 E		1.10E-02 E		Y	1.6E+00 C	1.0E+00 C	2.9E-01 C	5.2E+02 C	5.8E+01 C	
TRICHLOROFLUOROMETHANE	75694	3.00E-01 I		2.00E-01 A		Y	1.3E+03 N	7.3E+02 N	4.1E+02 N	6.1E+05 N	2.3E+04 N	
2,4,6-TRICHLOROPHENOL	85954	1.00E-01 I					3.7E+03 N	3.7E+02 N	1.4E+02 N	2.0E+05 N	7.8E+03 N	
2,4,6-TRICHLOROPHENOL	88052	1.10E-02 I			1.00E-02 I		6.1E+00 C	6.3E-01 C	2.9E-01 C	5.2E+02 C	5.8E+01 C	
2,4,5-T	93765	1.00E-02 I					3.7E+02 N	3.7E+01 N	1.4E-01 N	2.0E+04 N	7.8E+02 N	
2,4,5-T-TRICHLOROPHENOXYPROPIONIC ACID	93721	8.00E-03 I					2.9E+02 N	2.9E+01 N	1.1E-01 N	1.8E+04 N	6.3E+02 N	
1,1,2-TRICHLOROPROPANE	598776	5.00E-03 I				Y	3.0E-01 N	1.8E-01 N	6.8E+00 N	1.0E+04 N	3.9E+02 N	
1,2,3-TRICHLOROPROPANE	96184	6.00E-03 I		1.4E-03 E		Y	5.9E-03 C	3.1E-03 C	1.6E-03 C	2.9E+00 C	3.2E-01 C	
1,2,3-TRICHLOROPROPENE	96195	5.00E-03 H				Y	3.0E+01 N	1.8E+01 N	6.8E+00 N	1.0E+04 N	3.9E+02 N	
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76131	3.00E-01 I		8.60E+00 H		Y	5.9E+04 N	3.1E+04 N	4.1E+04 N	6.1E+07 N	2.3E+06 N	
1,2,4-TRIMETHYLBENZENE	95636	5.00E-02 E		1.70E-03 E		Y	1.2E+01 N	6.2E+00 N	6.8E+01 N	1.0E+05 N	3.9E+03 N	
1,3,5-TRIMETHYLBENZENE	108678	5.00E-02 E		1.70E-03 E		Y	1.2E+01 N	6.2E+00 N	6.8E+01 N	1.0E+05 N	3.9E+03 N	
TRIMETHYL PHOSPHATE	512551			3.70E-02 H			1.8E+00 C	1.7E-01 C	8.5E-02 C	1.9E+02 C	1.7E+01 C	
1,3,5-TRINITROBENZENE	99354	3.00E-02 I					1.1E+03 N	1.1E+02 N	4.1E+01 N	6.1E+04 N	2.3E+03 N	
2,4,6-TRINITROTOLUENE	118967	5.00E-04 I		3.00E-02 I			2.2E+00 C	2.1E-01 C	1.1E-01 C	1.9E+02 C	2.1E+01 C	
URANIUM (SOLUBLE SALTS; from IRIS)	7440611	3.00E-03 I					1.1E+02 N	1.1E+01 N	4.1E+00 N	6.1E+03 N	2.3E+02 N	
URANIUM (SOLUBLE SALTS; provisional)	7440611	2.00E-04 E					7.3E+00 N	7.3E-01 N	2.7E-01 N	4.1E+02 N	1.8E+01 N	
VANADIUM	7440622	7.00E-03 H					2.6E+02 N	2.6E+01 N	9.5E+00 N	1.4E+04 N	5.6E+02 N	
VANADIUM PENTOXIDE	1314621	9.00E-03 I					3.3E+02 N	3.3E+01 N	1.2E+01 N	1.8E+04 N	7.0E+02 N	
VANADIUM SULFATE	16785812	2.00E-02 H					7.3E+02 N	7.3E+01 N	2.7E+01 N	4.1E+04 N	1.6E+03 N	
VINCOLOZIN	50471448	2.50E-02 I					9.1E+02 N	9.1E+01 N	3.4E-01 N	5.1E+04 N	2.0E+03 N	
VINYL ACETATE	108054	1.00E+00 H		5.71E-02 I		Y	1.5E-02 C	7.2E-02 C		4.4E+03 C	7.9E+00 C	
VINYL CHLORIDE (see cover memos)	75014	3.00E-03 I		1.40E+00 I		Y	4.1E+02 N	4.1E+01 N	1.4E+03 N	2.0E+06 N	7.8E+04 N	
VINYL CHLORIDE (see cover memos)	75014	3.00E-03 I		7.20E-01 I		Y	9.1E+02 N	9.1E+01 N	3.4E-01 N	5.1E+04 N	2.0E+03 N	
WARFARIN	81812	3.00E-04 I					1.5E-02 C	7.2E-02 C		4.4E+03 C	7.9E+00 C	
M-XYLENE	106383	2.00E+00 H				Y	1.1E+01 N	1.1E+00 N	4.1E+00 N	6.1E+02 N	2.3E+01 N	
O-XYLENE	95478	2.00E+00 H				Y	1.2E+04 N	7.3E+03 N	2.7E+03 N	4.1E+06 N	1.6E+05 N	
P-XYLENE	106423	2.00E+00 H				Y	1.2E+04 N	7.3E+03 N	2.7E+03 N	4.1E+06 N	1.6E+05 N	
XYLENES	1330207	2.00E+00 I				Y	1.2E+04 N	7.3E+03 N	2.7E+03 N	4.1E+06 N	1.6E+05 N	
ZINC	7440666	3.00E-01 I					1.1E+01 N	1.1E+00 N	4.1E-01 N	6.1E+02 N	2.3E+01 N	
ZINC PHOSPHIDE	1314647	3E-04 I					1.8E+03 N	1.8E+02 N	6.8E-01 N	1.0E+05 N	3.9E+03 N	
ZINIB	12122577	5E-02 I										

Sources: 1 = IRIS; H = HC-AF; A = HEAST; Alternates: W = Withdrawn from IRIS or HEAST; E = EPA-NCEA provisional value; O = other

Basal C = Carcinogenic effects; N = Noncarcinogenic effects; 1 = HBC at 1% of 0.1 < HBC < 1