

Agency for Toxic Substances and Disease Registry
MINIMAL RISK LEVELS (MRLs)
 December 2010

Name	Route	Duration	MRL	Uncertainty Factors	Endpoint	Status	Cover Date	CAS Number
ACENAPHTHENE	Oral	Int.	0.6 mg/kg/day	300	Hepatic	Final	08/95	83-32-9
ACETONE	Inh.	Acute	26 ppm	9	Neurol.	Final	05/94	67-64-1
		Int.	13 ppm	100	Neurol.			
		Chr.	13 ppm	100	Neurol.			
ACROLEIN	Oral	Int.	2 mg/kg/day	100	Hemato.	Final	08/07	107-02-8
		Acute	0.003 ppm	100	Resp.			
ACRYLAMIDE	Oral	Acute	0.02 mg/kg/day	100	Repro.	Draft	09/09	79-06-1
		Int.	0.002 mg/kg/day	100	Neurol.			
		Int.	0.00004 ppm	300	Resp.			
ACRYLONITRILE	Oral	Acute	0.1 ppm	10	Neurol.	Final	12/90	107-13-1
		Int.	0.01 mg/kg/day	1000	Repro.			
		Chr.	0.04 mg/kg/day	100	Hemato.			
		Int.	0.004 mg/kg/day	100	Gastro.			
ALDRIN	Oral	Acute	0.002 mg/kg/day	1000	Develop.	Final	09/02	309-00-2
		Chr.	0.00003 mg/kg/day	1000	Hepatic			
ALUMINUM	Oral	Int.	1.0 mg/kg/day	30	Neurol.	Final	09/08	7429-90-5
		Chr.	1.0 mg/kg/day	90	Neurol.			
AMERICIUM	Rad.	Acute	4 mSv	3	Develop.	Final	10/04	7440-35-9
		Chr.	1 mSv/yr	3	Other			
AMMONIA	Inh.	Acute	1.7 ppm	30	Resp.	Final	10/04	7664-41-7
		Chr.	0.1 ppm	30	Resp.			
ANTHRACENE	Oral	Int.	10 mg/kg/day	100	Hepatic	Final	08/95	120-12-7

ARSENIC	Oral	Acute	0.005 mg/kg/day	10	Gastro.	Final	08/07	7440-38-2
		Chr.	0.0003 mg/kg/day	3	Dermal			
ATRAZINE	Oral	Acute	0.01 mg/kg/day	100	Body Wt.	Final	09/03	1912-24-9
		Int.	0.003 mg/kg/day	300	Repro.			
BARIUM, SOLUBLE SALTS	Oral	Int.	0.2 mg/kg/day	100	Renal	Final	08/07	7440-39-3
		Chr.	0.2 mg/kg/day	100	Renal			
BENZENE	Inh.	Acute	0.009 ppm	300	Immuno.	Final	08/07	71-43-2
		Int.	0.006 ppm	300	Immuno.			
		Chr.	0.003 ppm	10	Immuno.			
	Oral	Chr.	0.0005 mg/kg/day	30	Immuno.			
BERYLLIUM	Oral	Chr.	0.002 mg/kg/day	300	Gastro.	Final	09/02	7440-41-7
BIS(2-CHLOROETHYL) ETHER	Inh.	Int.	0.02 ppm	1000	Body Wt.	Final	12/89	111-44-4
BIS(CHLOROMETHYL) ETHER	Inh.	Int.	0.0003 ppm	100	Resp.	Final	12/89	542-88-1
BORON	Inh.	Acute	0.3 mg/m3	3	Resp.	Final	11/10	7440-42-8
	Oral	Acute	0.2 mg/kg/day	100	Develop.			
		Int.	0.2 mg/kg/day	66	Develop.			
BROMODICHLOROMETHANE	Oral	Acute	0.04 mg/kg/day	1000	Hepatic	Final	12/89	75-27-4
		Chr.	0.02 mg/kg/day	1000	Renal			
BROMOFORM	Oral	Acute	0.7 mg/kg/day	100	Hepatic	Final	09/05	75-25-2
		Int.	0.2 mg/kg/day	300	Hepatic			
		Chr.	0.02 mg/kg/day	3000	Hepatic			
BROMOMETHANE	Inh.	Acute	0.05 ppm	100	Neurol.	Final	09/92	74-83-9
		Int.	0.05 ppm	100	Neurol.			
		Chr.	0.005 ppm	100	Neurol.			
	Oral	Int.	0.003 mg/kg/day	100	Gastro.			
1,3-BUTADIENE	Inh.	Acute	0.1 ppm	90	Develop.	Draft	09/09	106-99-0
2-BUTOXYETHANOL (ETHYLENE GLYCOL MONOBUTYL ETHER)	Inh.	Acute	6 ppm	9	Hemato.	Final	10/98	111-76-2
		Int.	3 ppm	9	Hemato.			
		Chr.	0.2 ppm	3	Hemato.			
	Oral	Acute	0.4 mg/kg/day	90	Hemato.			
		Int.	0.07 mg/kg/day	1000	Hepatic			

CADMIUM	Inh.	Acute	0.00003 mg/m3	300	Resp.	Draft	09/08	7440-43-9
		Chr.	0.00001 mg/m3	9	Renal			
	Oral	Int.	0.0005 mg/kg/day	100	Musculo.			
		Chr.	0.0001 mg/kg/day	3	Renal			
CARBON DISULFIDE	Inh.	Chr.	0.3 ppm	30	Neurol.	Final	08/96	75-15-0
		Oral	Acute	0.01 mg/kg/day	300			
CARBON TETRACHLORIDE	Inh.	Int.	0.03 ppm	30	Hepatic	Final	09/05	56-23-5
		Chr.	0.03 ppm	30	Hepatic			
	Oral	Acute	0.02 mg/kg/day	300	Hepatic			
		Int.	0.007 mg/kg/day	100	Hepatic			
CESIUM	Rad.	Acute	4 mSv	3	Develop.	Final	10/04	7440-46-2
		Chr.	1 mSv/yr	3	Other			
CHLORDANE	Inh.	Int.	0.0002 mg/m3	100	Hepatic	Final	05/94	57-74-9
		Chr.	0.00002 mg/m3	1000	Hepatic			
	Oral	Acute	0.001 mg/kg/day	1000	Develop.			
		Int.	0.0006 mg/kg/day	100	Hepatic			
Chr.	0.0006 mg/kg/day	100	Hepatic					
CHLORDECONE	Oral	Acute	0.01 mg/kg/day	100	Neurol.	Final	08/95	143-50-0
		Int.	0.0005 mg/kg/day	100	Renal			
		Chr.	0.0005 mg/kg/day	100	Renal			
CHLORFENVINPHOS	Oral	Acute	0.002 mg/kg/day	1000	Neurol.	Final	09/97	470-90-6
		Int.	0.002 mg/kg/day	1000	Immuno.			
		Chr.	0.0007 mg/kg/day	1000	Neurol.			
CHLORINE	Inh.	Acute	0.06 ppm	3	Resp.	Final	11/10	7782-50-5
		Int.	0.002 ppm	90	Resp.			
		Chr.	0.00005 ppm	30	Resp.			
CHLORINE DIOXIDE	Inh.	Int.	0.001 ppm	300	Resp.	Final	10/04	10049-04-4
CHLORITE	Oral	Int.	0.1 mg/kg/day	30	Neurol.	Final	10/04	7758-19-2
CHLOROENZENE	Oral	Int.	0.4 mg/kg/day	100	Hepatic	Final	12/90	108-90-7
CHLORODIBROMOMETHANE	Oral	Acute	0.1 mg/kg/day	300	Hepatic	Final	09/05	124-48-1
		Chr.	0.09 mg/kg/day	300	Hepatic			
CHLOROETHANE	Inh.	Acute	15 ppm	100	Develop.	Final	12/98	75-00-3

CHLOROFORM	Inh.	Acute	0.1 ppm	30	Hepatic	Final	09/97	67-66-3
		Int.	0.05 ppm	300	Hepatic			
		Chr.	0.02 ppm	100	Hepatic			
	Oral	Acute	0.3 mg/kg/day	100	Hepatic			
		Int.	0.1 mg/kg/day	100	Hepatic			
		Chr.	0.01 mg/kg/day	1000	Hepatic			
CHLOROMETHANE	Inh.	Acute	0.5 ppm	100	Neurol.	Final	12/98	74-87-3
		Int.	0.2 ppm	300	Hepatic			
		Chr.	0.05 ppm	1000	Neurol.			
4-CHLOROPHENOL	Oral	Acute	0.01 mg/kg/day	100	Hepatic	Final	07/99	106-48-9
CHLORPYRIFOS	Oral	Acute	0.003 mg/kg/day	10	Neurol.	Final	09/97	2921-88-2
		Int.	0.003 mg/kg/day	10	Neurol.			
		Chr.	0.001 mg/kg/day	100	Neurol.			
CHROMIUM(III) SOLUBLE PARTICULATES	Inh.	Int.	0.0001 mg/m3	300	Resp.	Draft	09/08	16065-83-1
CHROMIUM(III) INSOL. PARTICULATES	Inh.	Int.	0.005 mg/m3	90	Resp.	Draft	09/08	16065-83-1
CHROMIUM(VI)	Oral	Int.	0.005 mg/kg/day	100	Hemato.	Draft	09/08	18540-29-9
		Chr.	0.001 mg/kg/day	100	Gastro.			
CHROMIUM(VI), AEROSOL MISTS	Inh.	Int.	0.000005 mg/m3	100	Resp.	Draft	09/08	18540-29-9
		Chr.	0.000005 mg/m3	100	Resp.			
CHROMIUM(VI), PARTICULATES	Inh.	Int.	0.0003 mg/m3	30	Resp.	Draft	09/08	18540-29-9
COBALT	Inh.	Chr.	0.0001 mg/m3	10	Resp.	Final	10/04	7440-48-4
		Oral	Int.	0.01 mg/kg/day	100			
	Rad.	Acute	4 mSv	3	Develop.			
		Chr.	1 mSv/yr	3	Other			
COPPER	Oral	Acute	0.01 mg/kg/day	3	Gastro.	Final	10/04	7440-50-8
		Int.	0.01 mg/kg/day	3	Gastro.			
CRESOLS	Oral	Int.	0.1 mg/kg/day	100	Resp.	Final	09/08	1319-77-3
		Chr.	0.1 mg/kg/day	1000	Resp.			
CYANIDE, SODIUM	Oral	Int.	0.05 mg/kg/day	100	Repro.	Final	07/06	143-33-9

CYHALOTHRIN	Oral	Acute	0.01 mg/kg/day	100	Gastro.	Final	09/03	68085-85-8
		Int.	0.01 mg/kg/day	100	Gastro.			
CYPERMETHRIN	Oral	Acute	0.02 mg/kg/day	100	Neurol.	Final	09/03	52315-07-8
DDT, P,P'-	Oral	Acute	0.0005 mg/kg/day	1000	Develop.	Final	09/02	50-29-3
		Int.	0.0005 mg/kg/day	100	Hepatic			
DIAZINON	Inh.	Int.	0.01 mg/m3	30	Neurol.	Final	09/08	333-41-5
	Oral	Acute	0.006 mg/kg/day	100	Neurol.			
		Int.	0.002 mg/kg/day	100	Neurol.			
		Chr.	0.0007 mg/kg/day	100	Neurol.			
1,2-DIBROMO-3-CHLOROPROPANE	Inh.	Int.	0.0002 ppm	100	Repro.	Final	09/92	96-12-8
	Oral	Int.	0.002 mg/kg/day	1000	Repro.			
DI-N-BUTYL PHTHALATE	Oral	Acute	0.5 mg/kg/day	100	Develop.	Final	09/01	84-74-2
1,2-DICHLOROBENZENE	Oral	Acute	0.7 mg/kg/day	100	Hepatic	Final	07/06	95-50-1
		Int.	0.6 mg/kg/day	100	Hepatic			
		Chr.	0.3 mg/kg/day	100	Renal			
1,3-DICHLOROBENZENE	Oral	Acute	0.4 mg/kg/day	100	Hepatic	Final	07/06	541-73-1
		Int.	0.02 mg/kg/day	100	Endocr.			
1,4-DICHLOROBENZENE	Inh.	Acute	2 ppm	10	Ocular	Final	07/06	106-46-7
		Int.	0.2 ppm	100	Hepatic			
		Chr.	0.01 ppm	30	Resp.			
	Oral	Int.	0.07 mg/kg/day	100	Hepatic			
	Chr.	0.07 mg/kg/day	100	Hepatic				
1,2-DICHLOROETHANE	Inh.	Chr.	0.6 ppm	90	Hepatic	Final	09/01	107-06-2
	Oral	Int.	0.2 mg/kg/day	300	Renal			
1,1-DICHLOROETHENE	Inh.	Int.	0.02 ppm	100	Hepatic	Final	05/94	75-35-4
	Oral	Chr.	0.009 mg/kg/day	1000	Hepatic			
1,2-DICHLOROETHENE, CIS-	Oral	Acute	1 mg/kg/day	100	Hemato.	Final	08/96	156-59-2
		Int.	0.3 mg/kg/day	100	Hemato.			
1,2-DICHLOROETHENE, TRANS-	Inh.	Acute	0.2 ppm	1000	Hepatic	Final	08/96	156-60-5
		Int.	0.2 ppm	1000	Hepatic			
	Oral	Int.	0.2 mg/kg/day	100	Hepatic			

2,4-DICHLOROPHENOL	Oral	Int.	0.003 mg/kg/day	100	Immuno.	Final	07/99	120-83-2
1,2-DICHLOROPROPANE	Inh.	Acute	0.05 ppm	1000	Resp.	Final	12/89	78-87-5
		Int.	0.007 ppm	1000	Resp.			
	Oral	Acute	0.1 mg/kg/day	1000	Neurol.			
		Int.	0.07 mg/kg/day	1000	Hemato.			
		Chr.	0.09 mg/kg/day	1000	Hepatic			
1,3-DICHLOROPROPENE	Inh.	Int.	0.008 ppm	30	Resp.	Final	09/08	542-75-6
		Chr.	0.007 ppm	30	Resp.			
	Oral	Int.	0.04 mg/kg/day	100	Gastro.			
		Chr.	0.03 mg/kg/day	100	Gastro.			
2,3-DICHLOROPROPENE	Inh.	Acute	0.002 ppm	90	Resp.	Final	09/08	78-88-6
DICHLORVOS	Inh.	Acute	0.002 ppm	100	Neurol.	Final	09/97	62-73-7
		Int.	0.0003 ppm	100	Neurol.			
		Chr.	0.00006 ppm	100	Neurol.			
	Oral	Acute	0.004 mg/kg/day	1000	Neurol.			
Int.		0.003 mg/kg/day	10	Neurol.				
Chr.		0.0005 mg/kg/day	100	Neurol.				
DIELDRIN	Oral	Int.	0.0001 mg/kg/day	100	Neurol.	Final	09/02	60-57-1
		Chr.	0.00005 mg/kg/day	100	Hepatic			
DI(2-ETHYLHEXYL)PHTHALATE	Oral	Int.	0.1 mg/kg/day	100	Repro.	Final	09/02	117-81-7
		Chr.	0.06 mg/kg/day	100	Repro.			
DIETHYL PHTHALATE	Oral	Acute	7 mg/kg/day	300	Repro.	Final	06/95	84-66-2
		Int.	6 mg/kg/day	300	Hepatic			
DIISOPROPYL METHYLPHOSPHONATE (DIMP)	Oral	Int.	0.8 mg/kg/day	100	Hemato.	Final	10/98	1445-75-6
		Chr.	0.6 mg/kg/day	100	Hemato.			
DIMETHYLARSINIC ACID (DMA)	Oral	Chr.	0.02 mg/kg/day	100	Renal	Final	08/07	75-60-5
1,1-DIMETHYLHYDRAZINE	Inh.	Int.	0.0002 ppm	300	Hepatic	Final	09/97	57-14-7
1,2-DIMETHYLHYDRAZINE	Oral	Int.	0.0008 mg/kg/day	1000	Hepatic	Final	09/97	540-73-8
1,3-DINITROBENZENE	Oral	Acute	0.008 mg/kg/day	100	Repro.	Final	06/95	99-65-0
		Int.	0.0005 mg/kg/day	1000	Hemato.			

4,6-DINITRO-O-CRESOL	Oral	Acute	0.004 mg/kg/day	100	Neurol.	Final	08/95	534-52-1	
		Int.	0.004 mg/kg/day	100	Neurol.				
2,4-DINITROPHENOL	Oral	Acute	0.01 mg/kg/day	100	Body Wt.	Final	08/95	51-28-5	
2,4-DINITROTOLUENE	Oral	Acute	0.05 mg/kg/day	100	Neurol.	Final	12/98	121-14-2	
		Chr.	0.002 mg/kg/day	100	Hemato.				
2,6-DINITROTOLUENE	Oral	Int.	0.004 mg/kg/day	1000	Hemato.	Final	12/98	606-20-2	
DI-N-OCTYL PHTHALATE	Oral	Acute	3 mg/kg/day	300	Hepatic	Final	09/97	117-84-0	
		Int.	0.4 mg/kg/day	100	Hepatic				
1,4-DIOXANE	Inh.	Acute	2 ppm	30	Ocular	Draft	09/07	123-91-1	
		Int.	1 ppm	30	Hepatic				
		Chr.	1 ppm	30	Hepatic				
	Oral	Acute	4 mg/kg/day	100	Resp.				
		Int.	0.6 mg/kg/day	100	Hepatic				
		Chr.	0.1 mg/kg/day	100	Hepatic				
DISULFOTON	Inh.	Acute	0.006 mg/m3	30	Neurol.	Final	08/95	298-04-4	
		Int.	0.0002 mg/m3	30	Neurol.				
	Oral	Acute	0.001 mg/kg/day	100	Neurol.				
		Int.	0.00009 mg/kg/day	100	Develop.				
		Chr.	0.00006 mg/kg/day	1000	Neurol.				
ENDOSULFAN	Oral	Int.	0.005 mg/kg/day	100	Immuno.	Final	09/00	115-29-7	
		Chr.	0.002 mg/kg/day	100	Hepatic				
ENDRIN	Oral	Int.	0.002 mg/kg/day	100	Neurol.	Final	08/96	72-20-8	
		Chr.	0.0003 mg/kg/day	100	Neurol.				
ETHION	Oral	Acute	0.002 mg/kg/day	30	Neurol.	Final	09/00	563-12-2	
		Int.	0.002 mg/kg/day	30	Neurol.				
		Chr.	0.0004 mg/kg/day	150	Neurol.				
ETHYLBENZENE	Inh.	Acute	5 ppm	30	Neurol.	Final	11/10	100-41-4	
		Int.	2 ppm	30	Neurol.				
		Chr.	0.06 ppm	300	Renal				
	Oral	Int.	0.4 mg/kg/day	30	Hepatic				
ETHYLENE GLYCOL	Inh.	Acute	2 mg/m3	10	Resp.	Final	11/10	107-21-1	
		Oral	Acute	0.8 mg/kg/day	100				Develop.
			Int.	0.8 mg/kg/day	100				Develop.

ETHYLENE OXIDE	Inh.	Int.	0.09 ppm	100	Renal	Final	12/90	75-21-8
FLUORANTHENE	Oral	Int.	0.4 mg/kg/day	300	Hepatic	Final	08/95	206-44-0
FLUORENE	Oral	Int.	0.4 mg/kg/day	300	Hepatic	Final	08/95	86-73-7
FLUORIDE, SODIUM	Oral	Chr.	0.05 mg/kg/day	3	Musculo.	Final	09/03	7681-49-4
FLUORINE	Inh.	Acute	0.01 ppm	10	Resp.	Final	09/03	7782-41-4
FORMALDEHYDE	Inh.	Acute	0.04 ppm	9	Resp.	Final	07/99	50-00-0
		Int.	0.03 ppm	30	Resp.			
		Chr.	0.008 ppm	30	Resp.			
	Oral	Int.	0.3 mg/kg/day	100	Gastro.			
		Chr.	0.2 mg/kg/day	100	Gastro.			
FUEL OIL NO.2	Inh.	Acute	0.02 mg/m3	1000	Neurol.	Final	06/95	68476-30-2
GUTHION (AZINPHOS-METHYL)	Inh.	Acute	0.02 mg/m3	30	Neurol.	Final	09/08	86-50-0
		Int.	0.01 mg/m3	30	Neurol.			
		Chr.	0.01 mg/m3	30	Neurol.			
	Oral	Acute	0.01 mg/kg/day	100	Neurol.			
		Int.	0.003 mg/kg/day	100	Neurol.			
		Chr.	0.003 mg/kg/day	100	Neurol.			
HEPTACHLOR	Oral	Acute	0.0006 mg/kg/day	3000	Repro.	Final	08/07	76-44-8
		Int.	0.0001 mg/kg/day	300	Immuno.			
HEXACHLORO BENZENE	Oral	Acute	0.008 mg/kg/day	300	Develop.	Final	09/02	118-74-1
		Int.	0.0001 mg/kg/day	90	Repro.			
		Chr.	0.00005 mg/kg/day	300	Develop.			
HEXACHLOROBUTADIENE	Oral	Int.	0.0002 mg/kg/day	1000	Renal	Final	05/94	87-68-3
ALPHA-HEXACHLOROCYCLOHEXANE	Oral	Chr.	0.008 mg/kg/day	100	Hepatic	Final	09/05	319-84-6
BETA-HEXACHLOROCYCLOHEXANE	Oral	Acute	0.05 mg/kg/day	100	Neurol.	Final	09/05	319-85-7
		Int.	0.0006 mg/kg/day	300	Hepatic			
GAMMA-HEXACHLOROCYCLOHEXANE	Oral	Acute	0.003 mg/kg/day	300	Develop.	Final	09/05	58-89-9
		Int.	0.00001 mg/kg/day	1000	Immuno.			

HEXACHLOROCYCLOPENTADIENE	Inh.	Int.	0.01 ppm	30	Resp.	Final	07/99	77-47-4
		Chr.	0.0002 ppm	90	Resp.			
	Oral	Int.	0.1 mg/kg/day	100	Renal			
HEXACHLOROETHANE	Inh.	Acute	6 ppm	30	Neurol.	Final	09/97	67-72-1
		Int.	6 ppm	30	Neurol.			
	Oral	Acute	1 mg/kg/day	100	Hepatic			
		Int.	0.01 mg/kg/day	100	Hepatic			
HEXAMETHYLENE DIISOCYANATE	Inh.	Int.	0.00003 ppm	30	Resp.	Final	10/98	822-06-0
		Chr.	0.00001 ppm	90	Resp.			
N-HEXANE	Inh.	Chr.	0.6 ppm	100	Neurol.	Final	07/99	110-54-3
HMX (CYCLOTETRAMETHYLENE TETRANITRAMINE)	Oral	Acute	0.1 mg/kg/day	1000	Neurol.	Final	09/97	2691-41-0
		Int.	0.05 mg/kg/day	1000	Hepatic			
HYDRAZINE	Inh.	Int.	0.004 ppm	300	Hepatic	Final	09/97	302-01-2
HYDROGEN FLUORIDE	Inh.	Acute	0.02 ppm	30	Resp.	Final	09/03	7664-39-3
HYDROGEN SULFIDE	Inh.	Acute	0.07 ppm	27	Resp.	Final	07/06	7783-06-4
		Int.	0.02 ppm	30	Resp.			
IODIDE	Oral	Acute	0.01 mg/kg/day	1	Endocr.	Final	10/04	7553-56-2
		Chr.	0.01 mg/kg/day	1	Endocr.			
IONIZING RADIATION, N.O.S.	Rad.	Acute	4 mSv	3	Neurol.	Final	09/99	HZ1800-45-T
		Chr.	1 mSv/yr	3	Other			
ISOPHORONE	Oral	Int.	3 mg/kg/day	100	Other	Final	12/89	78-59-1
		Chr.	0.2 mg/kg/day	1000	Hepatic			
JP-4	Inh.	Int.	9 mg/m3	300	Hepatic	Final	06/95	50815-00-4
JP-5/JP-8	Inh.	Int.	3 mg/m3	300	Hepatic	Final	10/98	HZ0600-26-T
JP-7	Inh.	Chr.	0.3 mg/m3	300	Hepatic	Final	06/95	HZ0600-22-T
KEROSENE	Inh.	Int.	0.01 mg/m3	1000	Hepatic	Final	06/95	8008-20-6

MALATHION	Inh.	Acute	0.2 mg/m3	100	Neurol.	Final	09/03	121-75-5
		Int.	0.02 mg/m3	1000	Resp.			
	Oral	Int.	0.02 mg/kg/day	10	Neurol.			
		Chr.	0.02 mg/kg/day	100	Neurol.			
MANGANESE, RESPIRABLE	Inh.	Chr.	0.04 ug/m3	500	Neurol.	Addendum	09/10	7439-96-5
MERCURIC CHLORIDE	Oral	Acute	0.007 mg/kg/day	100	Renal	Final	03/99	7487-94-7
		Int.	0.002 mg/kg/day	100	Renal			
MERCURY	Inh.	Chr.	0.0002 mg/m3	30	Neurol.	Final	03/99	7439-97-6
METHOXYCHLOR	Oral	Int.	0.005 mg/kg/day	1000	Repro.	Final	09/02	72-43-5
4,4'-METHYLENEBIS(2-CHLOROANILINE)	Oral	Chr.	0.003 mg/kg/day	3000	Hepatic	Final	05/94	101-14-4
METHYLENE CHLORIDE	Inh.	Acute	0.6 ppm	100	Neurol.	Final	09/00	75-09-2
		Int.	0.3 ppm	90	Hepatic			
		Chr.	0.3 ppm	30	Hepatic			
	Oral	Acute	0.2 mg/kg/day	100	Neurol.			
		Chr.	0.06 mg/kg/day	100	Hepatic			
4,4'-METHYLENEDIANILINE	Oral	Acute	0.2 mg/kg/day	300	Hepatic	Final	10/98	101-77-9
		Int.	0.08 mg/kg/day	100	Hepatic			
METHYLMERCURY	Oral	Chr.	0.0003 mg/kg/day	4.5	Develop.	Final	03/99	22967-92-6
1-METHYLNAPHTHALENE	Oral	Chr.	0.07 mg/kg/day	1000	Resp.	Final	09/05	90-12-0
2-METHYLNAPHTHALENE	Oral	Chr.	0.04 mg/kg/day	100	Resp.	Final	09/05	91-57-6
METHYL PARATHION	Oral	Int.	0.0007 mg/kg/day	300	Neurol.	Final	09/01	298-00-0
		Chr.	0.0003 mg/kg/day	100	Hemato.			
METHYL-T-BUTYL ETHER	Inh.	Acute	2 ppm	100	Neurol.	Final	08/96	1634-04-4
		Int.	0.7 ppm	100	Neurol.			
		Chr.	0.7 ppm	100	Renal			
	Oral	Acute	0.4 mg/kg/day	100	Neurol.			
		Int.	0.3 mg/kg/day	300	Hepatic			
MIREX	Oral	Chr.	0.0008 mg/kg/day	100	Hepatic	Final	08/95	2385-85-5
MONOMETHYLARSONIC ACID (MMA)	Oral	Int.	0.1 mg/kg/day	100	Gastro.	Final	08/07	124-58-3
		Chr.	0.01 mg/kg/day	100	Renal			

NAPHTHALENE	Inh.	Chr.	0.0007 ppm	300	Resp.	Final	09/05	91-20-3
	Oral	Acute	0.6 mg/kg/day	90	Neurol.			
		Int.	0.6 mg/kg/day	90	Neurol.			
N-NITROSODI-N-PROPYLAMINE	Oral	Acute	0.095 mg/kg/day	100	Hepatic	Final	12/89	621-64-7
NICKEL	Inh.	Int.	0.0002 mg/m3	30	Resp.	Final	09/05	7440-02-0
		Chr.	0.00009 mg/m3	30	Resp.			
2,3,4,7,8-PENTACHLORODIBENZOFURAN	Oral	Acute	0.001 ug/kg/day	3000	Immuno.	Final	05/94	57117-31-4
		Int.	0.00003 ug/kg/day	3000	Hepatic			
PENTACHLOROPHENOL	Oral	Acute	0.005 mg/kg/day	1000	Develop.	Final	09/01	87-86-5
		Int.	0.001 mg/kg/day	1000	Repro.			
		Chr.	0.001 mg/kg/day	1000	Endocr.			
PERCHLORATES	Oral	Chr.	0.0007 mg/kg/day	10	Endocr.	Final	08/08	7778-74-7
PERMETHRIN	Oral	Acute	0.3 mg/kg/day	100	Neurol.	Final	09/03	52645-53-1
		Int.	0.2 mg/kg/day	100	Neurol.			
PHENOL	Oral	Acute	1 mg/kg/day	100	Body Wt.	Final	09/08	108-95-2
PHOSPHORUS, WHITE	Inh.	Acute	0.02 mg/m3	30	Resp.	Final	09/97	7723-14-0
		Oral	Int.	0.0002 mg/kg/day	100	Repro.		
POLYBROMINATED BIPHENYLS (PBBs)	Oral	Acute	0.01 mg/kg/day	100	Endocr.	Final	10/04	36355-01-8
POLYBROMINATED DIPHENYL ETHERS (PBDEs), LOWER BROMINATED	Inh.	Int.	0.006 mg/m3	90	Endocr.	Final	10/04	32534-81-9
		Oral	Acute	0.03 mg/kg/day	30	Endocr.		32536-52-0
			Int.	0.007 mg/kg/day	300	Hepatic		
PBDEs, DECABROMINATED	Oral	Int.	10 mg/kg/day	100	Develop.	Final	10/04	1163-19-5
POLYCHLORINATED BIPHENYLS (PCBs) (Aroclor 1254)	Oral	Int.	0.03 ug/kg/day	300	Neurol.	Final	11/00	11097-69-1
		Chr.	0.02 ug/kg/day	300	Immuno.			
PROPYLENE GLYCOL	Inh.	Int.	0.009 ppm	1000	Resp.	Final	09/97	57-55-6
PROPYLENE GLYCOL DINITRATE	Inh.	Acute	0.003 ppm	10	Neurol.	Final	06/95	6423-43-4
		Int.	0.00004 ppm	1000	Hemato.			
		Chr.	0.00004 ppm	1000	Hemato.			

RDX (CYCLOTRIMETHYLENETRINITRAMINE)	Oral	Acute	0.09 mg/kg/day	100	Neurol.	Draft	07/10	121-82-4
		Int.	0.05 mg/kg/day	100	Neurol.			
REFRACTORY CERAMIC FIBERS	Inh.	Chr.	0.03 fibers/cc	30	Resp.	Final	10/04	HZ0900-26-T
SELENIUM	Oral	Chr.	0.005 mg/kg/day	3	Dermal	Final	09/03	7782-49-2
STRONTIUM	Oral	Int.	2 mg/kg/day	30	Musculo.	Final	10/04	7440-24-6
STYRENE	Inh.	Acute	5 ppm	10	Neurol.	Final	11/10	100-42-5
		Chr.	0.2 ppm	30	Neurol.			
	Oral	Acute	0.1 mg/kg/day	1000	Neurol.			
SULFUR DIOXIDE	Inh.	Acute	0.01 ppm	9	Resp.	Final	12/98	7446-09-5
SULFUR MUSTARD	Inh.	Acute	0.0007 mg/m3	30	Ocular	Final	09/03	505-60-2
		Int.	0.00002 mg/m3	30	Ocular			
	Oral	Acute	0.5 ug/kg/day	1000	Develop.			
		Int.	0.07 ug/kg/day	300	Gastro.			
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	Oral	Acute	0.0002 ug/kg/day	21	Immuno.	Final	12/98	1746-01-6
		Int.	0.00002 ug/kg/day	30	Lymphor.			
		Chr.	0.000001 ug/kg/day	90	Develop.			
1,1,2,2-TETRACHLOROETHANE	Oral	Int.	0.5 mg/kg/day	100	Hepatic	Final	09/08	79-34-5
TETRACHLOROETHYLENE	Inh.	Acute	0.2 ppm	10	Neurol.	Final	09/97	127-18-4
		Chr.	0.04 ppm	100	Neurol.			
	Oral	Acute	0.05 mg/kg/day	100	Develop.			
TIN, INORGANIC	Oral	Int.	0.3 mg/kg/day	100	Hemato.	Final	09/05	7440-31-5
TIN, DIBUTYL-, DICHLORIDE	Oral	Int.	0.005 mg/kg/day	1000	Immuno.	Final	09/05	683-18-1
TIN, TRIBUTYL-, OXIDE	Oral	Int.	0.0003 mg/kg/day	100	Immuno.	Final	09/05	56-35-9
		Chr.	0.0003 mg/kg/day	100	Immuno.			
TITANIUM TETRACHLORIDE	Inh.	Int.	0.01 mg/m3	90	Resp.	Final	09/97	7550-45-0
		Chr.	0.0001 mg/m3	90	Resp.			
TOLUENE	Inh.	Acute	1 ppm	10	Neurol.	Final	09/00	108-88-3
		Chr.	0.08 ppm	100	Neurol.			
	Oral	Acute	0.8 mg/kg/day	300	Neurol.			
		Int.	0.02 mg/kg/day	300	Neurol.			

TOXAPHENE	Oral	Acute	0.05 mg/kg/day	100	Neurol.	Draft	9/10	8001-35-2
		Int.	0.002 mg/kg/day	100	Immuno.			
TRIBUTYL PHOSPHATE (TnBP)	Oral	Acute	1.1 mg/kg/day	100	Body Wt.	Draft	09/09	126-73-8
		Int.	0.02 mg/kg/day	100	Renal			
		Chr.	0.02 mg/kg/day	100	Renal			
1,2,4-TRICHLOROBENZENE	Oral	Int.	0.1 mg/kg/day	100	Hepatic	Draft	9/10	120-82-1
		Chr.	0.1 mg/kg/day	100	Hepatic			
1,1,1-TRICHLOROETHANE	Inh.	Acute	2 ppm	100	Neurol.	Final	07/06	71-55-6
		Int.	0.7 ppm	100	Neurol.			
	Oral	Int.	20 mg/kg/day	100	Body Wt.			
1,1,2-TRICHLOROETHANE	Oral	Acute	0.3 mg/kg/day	100	Neurol.	Final	12/89	79-00-5
		Int.	0.04 mg/kg/day	100	Hepatic			
TRICHLOROETHYLENE	Inh.	Acute	2 ppm	30	Neurol.	Final	09/97	79-01-6
		Int.	0.1 ppm	300	Neurol.			
	Oral	Acute	0.2 mg/kg/day	300	Develop.			
1,2,3-TRICHLOROPROPANE	Inh.	Acute	0.0003 ppm	100	Resp.	Final	09/92	96-18-4
	Oral	Int.	0.08 mg/kg/day	100	Hepatic			
2,4,6-TRINITROTOLUENE	Oral	Int.	0.0005 mg/kg/day	1000	Hepatic	Final	06/95	118-96-7
TRIS(2-BUTOXYETHYL) PHOSPHATE (TBEP)	Oral	Acute	4.8 mg/kg/day	100	Body Wt.	Draft	09/09	78-51-3
		Int.	0.2 mg/kg/day	100	Hepatic			
TRIS(2-CHLOROETHYL) PHOSPHATE (TCEP)	Oral	Int.	0.6 mg/kg/day	100	Neurol.	Draft	09/09	115-96-8
		Chr.	0.3 mg/kg/day	100	Renal			
TRIS(1,3-DICHLORO-2-PROPYL) PHOSPHATE (TDCP)	Oral	Int.	0.05 mg/kg/day	100	Renal	Draft	09/09	13674-87-8
		Chr.	0.02 mg/kg/day	100	Renal			
URANIUM, HIGHLY SOLUBLE SALTS	Inh.	Int.	0.0004 mg/m3	90	Renal	Final	09/99	HZ1800-90-T
		Chr.	0.0003 mg/m3	30	Renal			
	Oral	Int.	0.002 mg/kg/day	30	Renal			
URANIUM, INSOLUBLE COMPOUNDS	Inh.	Int.	0.008 mg/m3	30	Renal	Final	09/99	HZ1800-92-T

VANADIUM	Inh.	Acute	0.0008 mg/m ³	90	Resp.	Draft	09/09	7440-62-2
		Chr.	0.0001 mg/m ³	30	Resp.			
	Oral	Int.	0.01 mg/kg/day	10	Hemato.			
VINYL ACETATE	Inh.	Int.	0.01 ppm	100	Resp.	Final	07/92	108-05-4
VINYL CHLORIDE	Inh.	Acute	0.5 ppm	30	Develop.	Final	07/06	75-01-4
		Int.	0.03 ppm	30	Hepatic			
	Oral	Chr.	0.003 mg/kg/day	30	Hepatic			
XYLENES, MIXED	Inh.	Acute	2 ppm	30	Neurol.	Final	08/07	1330-20-7
		Int.	0.6 ppm	90	Neurol.			
		Chr.	0.05 ppm	300	Neurol.			
	Oral	Acute	1 mg/kg/day	100	Neurol.			
		Int.	0.4 mg/kg/day	1000	Neurol.			
		Chr.	0.2 mg/kg/day	1000	Neurol.			
ZINC	Oral	Int.	0.3 mg/kg/day	3	Hemato.	Final	09/05	7440-66-6
		Chr.	0.3 mg/kg/day	3	Hemato.			

Total number of MRLs: 394

For Duration, Acute = 1 to 14 days, Intermediate = 15 to 364 days, and Chronic = 1 year or longer.

For general information on ATSDR Minimal Risk Levels, see www.atsdr.cdc.gov/mrls.

For more information on a specific MRL, please refer to our Toxicological Profiles, particularly Appendix A of Profiles written after 1995.

The Profiles can be found online at www.astdr.cdc.gov or ordered via cdcinfo@cdc.gov or 1-800-CDC-INFO.