

US EPA ARCHIVE DOCUMENT

Table PG1. Chemical-specific Waste Concentrations for Waste Piles (mg/kg)  
 Human Receptors - 500 meters; Ecological Receptors - 2000 meters

Chemical Name	CASRN	Protection Group 1			Protection Group 2			Protection Group 3			Protection Group 4		
		HH	Eco	Lowest	HH	Eco	Lowest	HH	Eco	Lowest	HH	Eco	Lowest
Acetonitrile	75-05-8	5	note 1	5	90	note 1	90	90	note 1	90	200	note 1	200
Acrylonitrile	107-13-1	0.003	note 1	0.003	0.006	note 1	0.006	0.07	note 1	0.07	0.09	note 1	0.09
Aniline	62-53-3	0.9	100	0.9	3	100	3	40	100	40	60	100	60
Arsenic	7440-38-2	20	50	20	30	90	30	1000	90	90	3000	7000	3000
Barium	7440-39-3	2000	600	600	50000	2000	2000	50000	2000	2000	90000	100000	90000
Benzene	71-43-2	30	1000	30	60	1000	60	600	1000	600	800	1000	800
Benzo(a)pyrene	50-32-8	1	1	1	1	1	1	1	1	1	1	1	1
Beryllium	7440-41-7	1	1	1	1	1	1	1	1	1	1	1	1
Bis-(2-ethylhexyl) phthalate	117-81-7	100	60	60	100	100	100	100	100	100	100	100	100
Cadmium	7440-43-9	100	40	40	1000	300	300	1000	300	300	1000	1000	1000
Carbon disulfide	75-15-0	20	30	20	200	50	50	200	50	50	700	100	100
Chlorobenzene	108-90-7	50	100	50	100	100	100	100	100	100	100	100	100
Chloroform	67-66-3	300	700	300	600	3000	600	10000	3000	3000	10000	10000	10000
Dibenz[a,h]anthracene	53-70-3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Dichlorophenoxyacetic acid, 2,4-	94-75-7	20	note 1	20	50	note 1	50	50	note 1	50	80	note 1	80
Divalent Mercury	7439-97-6	10	10	10	10	10	10	10	10	10	10	10	10
Ethylene dibromide	106-93-4	0.005	note 1	0.005	0.009	note 1	0.009	0.5	note 1	0.5	0.6	note 1	0.6
Lead	7439-92-1	note 2	40	40	note 2	70	70	note 2	70	70	note 2	1000	1000
Methyl ethyl ketone	78-93-3	6	1000	6	200	1000	200	200	1000	200	600	1000	600
Methyl methacrylate	80-62-6	70	note 1	70	1000	note 1	1000	1000	note 1	1000	1000	note 1	1000
Methylene chloride	75-09-2	3	6000	3	5	10000	5	400	10000	400	400	10000	400
Nickel [+2]	7440-02-0	700	4000	700	6000	8000	6000	10000	8000	8000	10000	10000	10000
Nitrobenzene	98-95-3	40	1000	40	700	1000	700	700	1000	700	1000	1000	1000
Pentachlorophenol	87-86-5	8	200	8	200	700	200	600	700	600	800	1000	800
Phenol	108-95-2	6000	10000	6000	10000	10000	10000	10000	10000	10000	10000	10000	10000
Pyridine	110-86-1	0.3	1000	0.3	6	1000	6	6	1000	6	7	1000	7

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		HH	Eco	Lowest	HH	Eco	Lowest	HH	Eco	Lowest	HH	Eco	Lowest
Silver	7440-22-4	10	10	10	10	10	10	10	10	10	10	10	10
Tetrachlorodibenzo-p-dioxin, 2,3,7,8-	1746-01-6	0.002	0.003	0.002	0.004	0.006	0.004	0.01	0.006	0.006	0.01	0.01	0.01
Tetrachloroethylene	127-18-4	300	5000	300	1000	5000	1000	5000	5000	5000	5000	5000	5000
Thallium [+1]	7446-18-6	0.03	6	0.03	0.5	10	0.5	0.5	10	0.5	0.6	100	0.6
Thiram	137-26-8	100	100	100	100	100	100	100	100	100	100	100	100
Toluene	108-88-3	5000	2000	2000	5000	4000	4000	5000	4000	4000	5000	5000	5000
Trichloroethane, 1,1,1-	71-55-6	800	6000	800	10000	10000	10000	10000	10000	10000	10000	10000	10000
Trichloroethylene	79-01-6	300	200	200	600	400	400	9000	400	400	10000	2000	2000
Vinyl chloride	75-01-4	0.2	5	0.2	0.4	9	0.4	4	9	4	7	200	7
Zinc	7440-66-6	10000	7000	7000	10000	10000	10000	10000	10000	10000	10000	10000	10000

- note 1: Ecological impacts were not evaluated due to the lack of chronic ecological toxicity values.
- note 2: Human impacts were not evaluated due to the lack of human health toxicity values.
- note 3: The values in the highlighted cells are the same as the highest waste concentration evaluated.
- note 4: The lowest concentration run does not meet the protection criteria for this scenario.
- NA: Not Applicable