

US EPA ARCHIVE DOCUMENT

Table PG4. Chemical-specific Waste Concentrations for Land Application Units (mg/kg)  
Human Receptors - 2000 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	40	note 1	40	700	note 1	700	700	note 1	700	1000	note 1	1000
Acrylonitrile	107-13-1	0.004	note 1	0.004	0.008	note 1	0.008	0.2	note 1	0.2	0.7	note 1	0.7
Aniline	62-53-3	0.4	100	0.4	0.7	100	0.7	9	100	9	50	100	50
Arsenic	7440-38-2	0.2	0.04	0.04	0.4	0.08	0.08	30	0.08	0.08	50	50	50
Barium	7440-39-3	50	20	20	900	60	60	900	60	60	4000	900	900
Benzene	71-43-2	20	50	20	40	800	40	600	800	600	1000	1000	1000
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	100	100	100	100	100	100	100	100	100	100	100
Cadmium	7440-43-9	7	0.3	0.3	40	0.7	0.7	200	0.7	0.7	1000	60	60
Carbon disulfide	75-15-0	50	0.6	0.6	800	10	10	800	10	10	1000	80	80
Chlorobenzene	108-90-7	5	30	5	80	100	80	80	100	80	100	100	100
Chloroform	67-66-3	0.2	7	0.2	0.5	90	0.5	6	90	6	300	800	300
Dibenz[a,h]anthracene	53-70-3	0.07	0.07	0.07	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	0.4	note 1	0.4	40	note 1	40	40	note 1	40	60	note 1	60
Divalent Mercury	7439-97-6	10	0.7	0.7	10	4	4	10	4	4	10	10	10
Ethylene dibromide	106-93-4	0.002	note 1	0.002	0.004	note 1	0.004	0.007	note 1	0.007	0.6	note 1	0.6
Lead	7439-92-1	note 2	note 4	note 4	note 2	0.6	0.6	note 2	0.6	0.6	note 2	30	30
Methyl ethyl ketone	78-93-3	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
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	6	600	6	90	10000	90	400	10000	400	900	10000	900
Nickel [+2]	7440-02-0	40	5	5	200	9	9	900	9	9	6000	900	900
Nitrobenzene	98-95-3	0.2	1000	0.2	0.7	1000	0.7	0.7	1000	0.7	10	1000	10
Pentachlorophenol	87-86-5	0.07	2	0.07	0.2	5	0.2	5	5	5	9	300	9
Phenol	108-95-2	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
Pyridine	110-86-1	0.2	1000	0.2	0.7	1000	0.7	0.7	1000	0.7	4	1000	4
Silver	7440-22-4	10	0.7	0.7	10	3	3	10	3	3	10	10	10

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Tetrachlorodibenzo-p-dioxin, 2,3,7,8-	1746-01-6	0.00002	0.00001	0.00001	0.00005	0.00007	0.00005	0.002	0.00007	0.00007	0.004	0.003	0.003
Tetrachloroethylene	127-18-4	6	2000	6	20	4000	20	1000	4000	1000	5000	5000	5000
Thallium [+1]	7446-18-6	note 4	0.2	note 4	0.09	0.8	0.09	0.09	0.8	0.09	0.4	30	0.4
Thiram	137-26-8	100	100	100	100	100	100	100	100	100	100	100	100
Toluene	108-88-3	5000	200	200	5000	800	800	5000	800	800	5000	5000	5000
Trichloroethane, 1,1,1-	71-55-6	200	200	200	500	400	400	500	400	400	4000	5000	4000
Trichloroethylene	79-01-6	5	3	3	9	5	5	300	5	5	700	80	80
Vinyl chloride	75-01-4	0.1	0.3	0.1	0.3	0.7	0.3	0.6	0.7	0.6	5	9	5
Zinc	7440-66-6	3000	5	5	10000	8	8	10000	8	8	10000	800	800

- 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