

US EPA ARCHIVE DOCUMENT

Table PG4. Chemical-specific Waste Concentrations for Land Application Units (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	10	note 1	10	400	note 1	400	400	note 1	400	600	note 1	600
Acrylonitrile	107-13-1	0.003	note 1	0.003	0.005	note 1	0.005	0.07	note 1	0.07	0.09	note 1	0.09
Aniline	62-53-3	0.3	100	0.3	0.5	100	0.5	5	100	5	8	100	8
Arsenic	7440-38-2	0.06	0.04	0.04	0.2	0.08	0.08	20	0.08	0.08	30	50	30
Barium	7440-39-3	30	20	20	500	60	60	500	60	60	600	900	600
Benzene	71-43-2	20	50	20	40	800	40	400	800	400	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	100	100	100	100	100	100	100	100	100	100	100
Cadmium	7440-43-9	3	0.3	0.3	40	0.7	0.7	50	0.7	0.7	80	60	60
Carbon disulfide	75-15-0	20	0.6	0.6	500	10	10	500	10	10	500	80	80
Chlorobenzene	108-90-7	3	30	3	70	100	70	70	100	70	80	100	80
Chloroform	67-66-3	0.2	7	0.2	0.3	90	0.3	2	90	2	4	800	4
Dibenz[a,h]anthracene	53-70-3	0.03	0.07	0.03	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	0.3	note 1	0.3	20	note 1	20	20	note 1	20	30	note 1	30
Divalent Mercury	7439-97-6	10	0.7	0.7	10	4	4	10	4	4	10	10	10
Ethylene dibromide	106-93-4	note 4	note 1	note 4	0.0007	note 1	0.0007	0.004	note 1	0.004	0.005	note 1	0.005
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	30	note 1	30	600	note 1	600	600	note 1	600	800	note 1	800
Methylene chloride	75-09-2	3	600	3	6	10000	6	300	10000	300	400	10000	400
Nickel [+2]	7440-02-0	30	5	5	200	9	9	500	9	9	600	900	600
Nitrobenzene	98-95-3	0.1	1000	0.1	0.4	1000	0.4	0.4	1000	0.4	0.4	1000	0.4
Pentachlorophenol	87-86-5	0.03	2	0.03	0.06	5	0.06	0.9	5	0.9	3	300	3
Phenol	108-95-2	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000	10000
Pyridine	110-86-1	0.1	1000	0.1	0.5	1000	0.5	0.5	1000	0.5	0.5	1000	0.5
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	0.00004	0.00007	0.00004	0.002	0.00007	0.00007	0.002	0.003	0.002
Tetrachloroethylene	127-18-4	3	2000	3	6	4000	6	80	4000	80	500	5000	500
Thallium [+1]	7446-18-6	note 4	0.2	note 4	0.05	0.8	0.05	0.05	0.8	0.05	0.06	30	0.06
Thiram	137-26-8	100	100	100	100	100	100	100	100	100	100	100	100
Toluene	108-88-3	2000	200	200	5000	800	800	5000	800	800	5000	5000	5000
Trichloroethane, 1,1,1-	71-55-6	40	200	40	400	400	400	400	400	400	400	5000	400
Trichloroethylene	79-01-6	2	3	2	4	5	4	300	5	5	300	80	80
Vinyl chloride	75-01-4	0.03	0.3	0.03	0.1	0.7	0.1	0.4	0.7	0.4	0.5	9	0.5
Zinc	7440-66-6	700	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