

Table 2: Results of Initial Ecological Risk Assessment (FY1997 - 2000)

	CAS Number	Substance	Hazard Assessment (Basis for PNEC)			Assessment factor	PNEC (mg/L)	PEC (mg/L)	PEC/PNEC ratio	Assessment Result
			Biological Group	Acute/chronic	Endpoint					
1	79-06-1	Acrylamide	Fish	Acute	EC ₅₀ Immobilization	1000	41	0.083 < 0.05	0.002 < 0.001	
2	75-07-0	Acetaldehyde	Fish	Acute	LC ₅₀ Mortality	100	370	< 1 < 1	< 0.003 < 0.003	
3	62-53-3	Aniline	Crustaceans	Chronic	NOEC Reproductive inhibition	10	0.4	< 0.06 0.074	< 0.15 0.19	×
4	309-00-2	Aldrin	Crustaceans	Acute	EC ₅₀ Immobilization	1000	0.0012	< 0.0001 < 0.05	< 0.08 < 42	×
5	78-79-5	Isoprene	Fish	Acute	TLm Mortality	1000	43	< 0.5 < 1	< 0.01 < 0.02	
6	100-41-4	Ethylbenzene	Crustaceans	Acute	LC ₅₀ Mortality	100	26	< 0.03 1.1	< 0.001 0.04	
7	106-89-8	Epichlorohydrin	Fish	Acute	LC ₅₀ Mortality	1000	11	< 1.0 < 0.5	< 0.09 < 0.05	
8	72-20-8	Endrin	Fish	Acute	LC ₅₀ Mortality	100	0.001	0.0004 < 0.05	0.35 < 50	×
9	1330-20-7	Xylene	Fish	Acute	LC ₅₀ Mortality	1000	8.2	0.042 1.5	0.01 0.18	
10	100-00-5	1-Chloro-4-nitrobenzene	Crustaceans	Chronic	NOEC Reproductive inhibition	100	3.2	< 0.3 < 0.3	< 0.09 < 0.09	
11	123-86-4	Butyl acetate	Fish	Acute	LC ₅₀ Mortality	1000	100	< 0.2 < 0.2	< 0.002 < 0.002	
12	75-56-9	Propylene oxide	-	-	-	-	-	< 2 < 0.2	- -	×
13	75-35-4	1,1-Dichloroethylene	Crustaceans	Acute	LC ₅₀ Mortality	1000	79	< 5 < 5	< 0.06 < 0.06	
14	542-75-4	1,3-Dichloropropene	Algae	Chronic	NOEC Biomass	10	0.9	< 2 < 0.2	< 2.2 < 0.22	×
15	95-50-1	o-Dichlorobenzene	Crustaceans	Chronic	NOEC Reproductive inhibition	100	< 1	< 0.01 < 0.04	- -	×
16	106-46-7	p-Dichlorobenzene	Crustaceans	Chronic	NOEC Reproductive inhibition	10	10	0.094 0.11	0.01 0.01	
17	68-12-2	N,N-Dimethylformamide	Fish	Acute	LC ₅₀ Mortality	100	71,000	0.1 0.07	##### #####	

18	74-83-9	Methylbromide	-	-	-	-	-	< 0.01	-	×
								< 0.01	-	×
19	100-42-5	Styrene	Fish	Acute	LC ₅₀ Mortality	1000	9.1	< 0.01	< 0.0011	
								0.02	0.0022	
20	50-29-3	p,p'-DDT	Fish	Acute	LC ₅₀ Mortality	100	0.002	< 0.0002	< 0.1	
								< 0.002	< 1	×
21	60-57-1	Dieldrin	Fish	Acute	LC ₅₀ Mortality	100	0.0026	0.0097	3.7	
								< 0.01	< 3.8	×
22	79-94-7	Tetrabromobisphenol A	Algae	Acute	EC ₅₀ Reduction in the population density	100	0.8	< 0.04	< 0.05	
								< 0.04	< 0.05	
23	95-53-4	o-Toluidine	Crustaceans	Chronic	NOEC Reproductive inhibition	100	0.13	< 0.08	< 0.62	×
								< 0.08	< 0.62	×
24	108-88-3	Toluene	Crustaceans	Chronic	NOEC Reproductive inhibition	100	12	0.09	0.01	
								2.4	0.2	
25	584-84-9	Toluene diisocyanate	Fish	Acute	LC ₅₀ Mortality	1000	160	-	-	×
								-	-	×
26	309-00-2	Hydrazine	Algae	Chronic	NOEC Growth inhibition	100	0.005	< 2	< 400	×
								< 2	< 400	×
27	92-52-4	Biphenyl	Algae	Chronic	NOEC Growth inhibition	100	0.072	0.069	0.96	
								< 0.021	< 0.29	×
28	108-95-2	Phenol	Fish	Acute	LC ₅₀ Mortality	100	0.8	0.58	0.73	
								0.43	0.54	
29	117-81-7	Di (2-ethylhexyl) phthalate	Crustaceans	Chronic	NOEC Mortality	100	0.77	1.6	2.1	
								0.4	0.52	
30	84-74-2	Di-n-butyl phthalate	Algae	Acute	EC ₅₀ Effect on the number of cells	100	4	< 0.3	< 0.08	
								< 0.3	< 0.08	
31	131-11-3	Dimethylphthalate	Crustaceans	Chronic	NOEC Mortality	100	96	< 0.1	< 0.001	
								< 0.1	< 0.001	
32	118-74-1	Hexachlorobenzene	Algae	Acute	EC ₅₀ Reduction in the DNA amount	1000	0.002	< 0.05	< 25	×
								< 0.002	< 1.0	×
33	110-54-3	n-Hexane	Crustaceans	Acute	IC ₅₀ Immobilization	100	15	0.5	0.03	
								-	-	×
34	76-44-8	Heptachlor	Crustaceans	Acute	LC ₅₀ Mortality	1000	3E-05	< 4E-06	< 0.13	×
								< 0.05	< 1,667	×
35	82-68-8	Pentachloronitrobenzene	Crustaceans	Chronic	NOEC Reproductive inhibition	100	0.84	< 0.0002	< 0.0002	
								< 0.42	< 0.5	×
36	87-86-5	Pentachlorophenol	Crustaceans	Chronic	NOEC Reproductive inhibition	100	< 0.041	0.0009	> 0.02	×
								< 0.05	-	×
37	50-00-0	Formaldehyde	Algae	Chronic	NOEC Mortality	100	< 1	3.0	> 3	

37	50-00-0	Formaldehyde	Algae	Chronic	NOEC Mortality	100	< 1	2.0	> 2	
38	108-90-7	Monochlorobenzene	Fish	Acute	LC ₅₀ Mortality	100	0.5	< 0.01	< 0.02	
								< 0.3	< 0.6	x
39	115-96-8	Phosphoric acid tris (2-chloroethyl) ester	Crustaceans	Chronic	NOEC Reproductive inhibition	100	100	0.7	0.007	
								1.1	0.01	

Notes:

- 1) EC₅₀= Median effective concentration, LC₅₀= median lethal concentration, NOEC= No observed effect concentration, Tlm= Threshold limit median, IC₅₀= 50% inhibition concentration.
- 2) Figures in the PEC column indicate PECs in public water bodies. For each substance, the upper figure is for freshwater, the lower for seawater. bold figures denote that the 95th percentile values are used as PEC.
- 3) : No further assessment is required at this time. : Further data collection required.
: Potential candidate for detailed assessment. X: Risk characterization impossible at present.