

Reference for Environmental Risk Assessment

Table 6

Reference No	Chemical name	CAS No	References
R0001	Acetaldehyde	75-07-0	Carr, R.S. (1987) Memorandum. Battelle Ocean Sciences, Duxbury, M A: 71.
R0002	Acetonitrile	75-05-8	Ministry of the Environment (1996) Reproduction inhibition test to <i>Daphnia magna</i> of acetonitrile, Ministry of the Environment, test No5B475G,
R0003	Acrolein	107-02-8	Degussa (1994) Original article of the data unknown. (EU, 2001)
R0004	Acrylamide	79-06-1	Spingborn Bionomics (1985). Toxicity test report - Chronic toxicity of acrylamide monomer to mysid. NTIS/OTS Order No. 0510508. Doc # 40-8631565.
R0005	Acrylic acid	79-10-7	BASF (1994a) Bestimmung der Hemmwirkung von Acrylsäure rein auf die Zellvermehrung der Grünalge <i>Scenedesmus subspicatus</i> , Labor Ökologie; Unveröffentlichte Untersuchung, von 04.07. bis 07.07.1994;(Projektnr. 94/0840/60/1). (EU, 2002)
R0006	Acrylonitrile	107-13-1	Analytical Bio Chemistry Laboratory Inc. (1980) Early life stage toxicity of acrylonitrile to fathead minnow (<i>Pimephales promelas</i>) in a flow-through system. Final Report No. 25673. (EU, 2004)
R0007	n-alkylbenzenesulfonic acid and its salts (alkyl C=10-14)	-	Holman, W.F. and Macek, K.J. (1980) An aquatic safety assessment of linear alkylbenzene sulfonate (LAS): Chronic effects on fathead minnows. Trans. Am. Fish. Soc., 109, 122-131.
R0008	Allyl alcohol	107-18-6	Geiger, D.L., Brooke, L.T. and Call, D.J. (1990) Acute toxicities of organic chemicals to fathead minnows (<i>Pimephales promelas</i>), Vol. 5. Center for Lake Superior Environmental Stud., Univ. of Wisconsin-Superior, Superior, WI I:332.
R0009	1-Allyloxy-2,3-epoxypropane	106-92-3	Bridie, A.L., Wolff, C.J.M. and Winter, M. (1979) The Acute Toxicity of Some Petrochemicals to Goldfish. Water Res., 13, 623-626. (U.S. EPA, 2002)
R0010	2-Aminoethanol	141-43-5	Ministry of the Environment (1997) Reproduction inhibition test to <i>Daphnia magna</i> of monatanol amine, test No. ET9702-3
R0011	N-(2-Aminoethyl)-1,2-ethanediamine; diethylenetriamine	111-40-0	OECD/UNEP/WHO/ILO (1996) Diethylenetriamine. Screening Information Data Set (SIDS), 3, 341-457.
R0012	Aniline	62-53-3	Kühn, R., Pattard, M., Pernak, K. and Winter, A. (1989b) Results of the harmful effects of water pollutants to <i>Daphnia magna</i> in the 21 day reproduction test. Water Res., 23, 501-510.
R0013	Antimony and its compounds	-	Birge, W.J. (1978) Aquatic toxicology of trace elements of coal and fly ash. In: Thorp, J.H. and Gibbons, J.W. Eds., Energy and Environmental Stress in Aquatic Systems, Dep. Energy Symp. Ser. 48, pp. 219-240, Augusta.
R0014	Arsenic and its inorganic compounds	-	Chen, F., Chen, W. and Dai, S. (1994) Toxicities of four arsenic species to <i>Scenedesmus obliquus</i> and influence of phosphate on inorganic arsenic toxicities. Toxicol. Environ. Chem., 41, 1-7.
R0015	2,2'-Azobisisobutyronitrile	78-67-1	Ministry of the Environment (1997) Ecotoxicity test project, 2,2'azobis(2-methylpropanitrile), test No. EDR96001
R0016	Benzaldehyde	100-52-7	Pickering, Q.H., Lazorchak, J.M. and Winks, K.L. (1996) Subchronic sensitivity of one-, four-, and seven-day-old fathead minnow (<i>Pimephales promelas</i>) larvae to five toxicants. Environ. Toxicol. Chem., 15, 353-359.
R0017	Benzene	71-43-2	Russom, C.L. and Broderius, S.J. (1991) A chronic aquatic toxicity database for development of predictive toxicology models for industrial organic chemicals. U.S. EPA, Environmental Research Laboratory-Duluth. Deliverable No. 8477. PPA, L104/G/2013.
R0018	1,2,4-Benzenetricarboxylic 1,2-anhydride	552-30-7	
R0019	Benzyl chloride	100-44-7	Curtis, M. W., Copeland, T.L. and Ward, C.H. (1979) Acute toxicity of 12 industrial chemicals to freshwater and saltwater organisms. Water res., 13, 137-141.
R0020	Bis(2-ethylhexyl) adipate	103-23-1	Felder, J.D., Adams, W.J. and Saeger, V.W. (1986) Assessment of the safety of dioctyl adipate in freshwater environments. Environ. Toxicol. Chem., 5, 777-784.
R0021	Bis(2-ethylhexyl) phthalate	117-81-7	Knowles, C.O., Mckee, M.J. and Palawski, D.U. (1987) Chronic effects of di-2-ethylhexyl phthalate on biochemical composition, survival and reproduction of <i>Daphnia magna</i> , Environ. Toxicol. Chem. 6, 201-208.
R0022	Bis(hydrogenated tallow)dimethylammonium chloride	61789-80-8	Akzo (1991a) Effect of DHTDMAC A4M on the growth of the alga <i>Selenastrum capricornutum</i> (OECD 201), internal report R 90/364a. (ECB, 2002)
R0023	Boron and its compounds	-	Black, J.A., Barnum, J.B. and Birge, W.J. (1993) An integrated assessment of the biological effects of boron to the rainbow trout. Chemosphere 26, 1383-1413.

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R0024	Bromomethane; methyl bromide	74-83-9	Wildlife International Report (1993b) Methyl Bromide: A 48-hour static acute toxicity test with the cladoceran (<i>Daphnia magna</i>), final report. Wildlife International, LTD. Project number: 264A-102A. conducted for Methyl Bromide Industry Panel, Chemical Manufactures Association, MRID # 42932900. (OECD/UNEP/WHO/ILO, 2001)
R0026	<i>n</i> -Butyl benzyl phthalate	85-68-7	Monsanto (1986c) Four acute toxicity studies, one chronic toxicity study and an uptake on an elimination study with 14C-benzyl butyl phthalate with attachments & cover letter dated 091586. NTIS Doc No. 40-8626256, Fiche No.OTS0522399.
R0027	<i>n</i> -Butyl methacrylate	97-88-1	Ministry of the Environment (1998) Reproduction inhibition test to <i>Daphnia magna</i> of <i>n</i> -butyl methacrylate, test No.1997-"sei"20,
R0028	tri- <i>n</i> -Butyl phosphate	126-73-8	ABC Laboratory (1991c) Early life-stage toxicity of TBP to rainbow trout in a flow-through system. ABC study No. 38556. Study conducted at the request of the Synthetic Organic Chemical Manufactures Association, Inc. (OECD/UNEP, 2001)
R0029	<i>N</i> -(<i>tert</i> -Butyl)-2-benzothiazolesulfenamide	95-31-8	Ministry of the Environment (1999) Ecotoxicity test project, <i>N</i> -(<i>tert</i> -Butyl)-2-benzothiazolesulfenamide, test No.6B672G
R0030	ϵ -Caprolactam	105-60-2	Loewengart, G. (1984) Risk Assessment, Caprolactam. Proc. Symp. Ind. Approach Chem., 36-52.
R0031	Carbon disulfide	75-15-0	van Leeuwen, C.J., Maas-Diepeveen, J.L., Niebeek, G., Vergouw, W.H.A., Griffioen, P.S. and Luijken, M.W. (1985) Aquatic toxicological aspects of dithiocarbamates and related compounds. I. Short-term toxicity tests. Aquat. Toxicol., 7, 145-164.
R0032	Chloroacetic acid	79-11-8	Hoechst AG (1992) Unveroeffentlichte Untersuchung (SZO 24641). (GDCh BUA, 1993)
R0033	<i>p</i> -Chloroaniline	106-47-8	Ministry of the Environment (2001) Reproduction inhibition test to <i>Daphnia magna</i> of <i>p</i> -chloroaniline, test No2001-"sei"11
R0034	<i>o</i> -Chloroaniline	95-51-2	Ministry of the Environment (2001) Acute Immobilization test to <i>Daphnia magna</i> of <i>o</i> -chloroaniline, test No2001-"sei"06 Ministry of the Environment (2001) Reproduction inhibition test to <i>Daphnia magna</i> of <i>o</i> -chloroaniline, test No2001-"sei"07
R0035	Chlorobenzene	108-90-7	Birge, W.J., Black, J.A. and Bruser D.M. (1979) Toxicity of organic chemicals to embryo-larval stages of fish. EPA-560/11-79-007, U.S. EPA, Washington, D.C., 60.
R0036	Chloroethane	75-00-3	Huls, A.G., (1993b) Bestimmung der auswirkungen von ethylchlorid auf das wachstum von <i>Scenedesmus subspicatus</i> 86.81.SAG. Study report No. AW-331. (unpublished) (GDCh BUA, 1998)
R0037	Chloroethylene; vinyl chloride	75-01-4	Groeneveld, A.H.C., Zijlstra, A.G., Feenstra, A.F.M. and Berends, A.G. (1993) The acute toxicity of vinylchloride to the Zebra fish (<i>Brachydanio rerio</i>). Graveland The Netherlands, Solvay Duphar BV, pp1-19.
R0038	Chloroform	67-66-3	Birge, W.J., Black, J.A. and Bruser, D.M. (1979) Toxicity of organic chemicals to embryo-larval stages of fish. Washington, DC, Environmental Protection Agency (EPA-560/11-79-007; PB80-101637).
R0039	Chloromethane; methyl chloride	74-87-3	Springborn laboratories, inc. (2001) Acute toxicity to water fleas (<i>Daphnia magna</i>), under static renewal conditions in a closed system, following OECD test guideline No.202, study number o. 13776.6101. (OECD SIDS, 2003)
R0040	3-Chloropropene; allyl chloride	107-05-1	Hermens, J., Busser, F., Leeuwanch, P. and Musch, A. (1985) Quantitative correlation studies between the acute lethal toxicity of 15 organic halides to the guppy (<i>Poecilia reticulata</i>) and chemical reactivity towards 4-nitrobenzyl-pyridine. Toxicol. Environ. Chem., 9, 219-236.
R0041	<i>o</i> -Chlorotoluene	95-49-8	Springborn Bionomics (1986) The chronic toxicity of <i>o</i> -chlorotoluene to <i>Daphnia magna</i> under flow-through conditions. Research report submitted to Occidental Chemical Corp., Report No. BW-86-9-2121; Study No. 10826.0885.6100. (SIDS, 2001)
R0042	Cresol	1319-77-3	Ministry of the Environment (1998) Reproduction inhibition test to <i>Daphnia magna</i> of <i>p</i> -cresol No.NMMP/E09/3040
R0043	Cyclohexylamine	108-91-8	Ministry of the Environment (1998) Reproduction inhibition test to <i>Daphnia magna</i> of cyclohexylamine, test No.NMMP/E09/3060
R0045	<i>cis</i> -1,2-Dichloroethylene	156-59-2	Ministry of the Environment (1996) Reproduction inhibition test to <i>Daphnia magna</i> of <i>cis</i> -1,2-dichloroethylene, test NoA030428-3
R0046	1,4-Dichloro-2-nitrobenzene	89-61-2	Deneer, J.W., van Leeuwen, C.J., Seinen, W., Maas-Diepeveen, J.L. and Hermens, J.L.M. (1989) QSAR study of the toxicity of nitrobenzene derivatives towards <i>Daphnia magna</i> , <i>Chlorella pyrenoidosa</i> and <i>Photobacterium phosphoreum</i> . Aquat. Toxicol., 15, 83-98.
R0047	1,3-Dichloro-2-propanol	96-23-1	Ministry of the Environment (1997) Reproduction inhibition test of 1,3-dichloro-2-propanol, test No.91758
R0048	3,3'-Dichloro-4,4'-diaminodiphenylmethane	101-14-4	Ministry of Economy, Trade and Industry (1993) report on the schem of assessment for ecotoxicity

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R0049	<i>p</i> -Dichlorobenzene	106-46-7	Smith, A.D., Bharath, A., Mallard, C., Orr, D., Smith, K., Sutton, J.A., Vukmanich, J., McCarty, L.S. and Ozburn, G.W. (1991) The Acute and chronic toxicity of ten chlorinated organic compounds to the american flagfish (<i>Jordanella floridae</i>). Arch. Environ. Contam. Toxicol., 20, 94-102.
R0050	<i>o</i> -Dichlorobenzene	95-50-1	Calamari, D., Galassi, S., Setti, F. and Vighi, M. (1983) Toxicity of selected chlorobenzenes to aquatic organisms. Chemosphere, 2, 253-262.
R0051	1,2-Dichloroethane	107-06-2	Ministry of the Environment (1996) Acute Immobilization test to <i>Daphnia magna</i> of 1,2-dichloroethane, test No.91502 Ministry of the Environment (1996) Reproduction inhibition test to <i>Daphnia magna</i> of 1,2-dichloroethane, test No.91503 Ministry of the Environment (1996) Acute toxicity test of 1,2-dichloroethane, test No.91504
R0052	<i>trans</i> -1,2-Dichloroethylene	156-60-5	LeBlanc, G. A. (1980) Acute toxicity of priority pollutants to water flea (<i>Daphnia magna</i>). Bull. Environ. Contam. Toxicol., 24, 684-691.
R0053	1,1-Dichloroethylene; vinylidene dichloride	75-35-4	Dill, D.C., McCarty, W.M., Alexander, H.c. and Bartlett, E.A. (1980) Toxicity of 1,1-Dichloroethylene (Vinylidene Chloride) to Aquatic Organisms. Ecol. Res. Ser., EPA-600/3-80-057, Environ. Prot. Agency, Duluth, MN: 17.
R0054	Dichloromethane; methylene dichloride	75-09-2	Black, J.A., Birge, W.J., McDonnell, W.E., Westerman, A.G., Ramey, B.A. and Bruser, D.M. (1982) The aquatic toxicity of organic compounds to embryo-larval stages of fish and amphibians. Lexington, Kentucky, Kentucky University, Water Resources Research Institute (Research Report No. 133: NTIS PB82-224601).
R0055	1,2-Dichloropropane	78-87-5	Ministry of the Environment (1996) Reproduction inhibition test to <i>Daphnia magna</i> of 1,2-dichloropropane, test No.91513-A,
R0056	Dicyclohexyl phthalate	84-61-7	Ministry of the Environment (2002) development of test method on ecotoxicity of endocrine disruptor
R0057	2-(Diethylamino)ethanol	100-37-8	BASF (1988b) Unpublished study, 3-BASF-okolimna-12/88/-026, report of Okolimna-Gesellschaft für Ökologie und Gewässerkunde mbH, 1988. (OECD/UNEP, 2003)
R0058	Dimethyl 2,2-dichlorovinyl phosphate; dichlorvos; DDVP	62-73-7	Ministry of the Environment (2002) Study for ecotoxicity of pesticide project Ministry of the Environment (2002) Press release Dec.18, 2002 Ministry of the Environment (2002) Press release Dec.25, 2002
R0059	Dimethyl terephthalate	120-61-6	Ministry of the Environment (2002) Reproduction inhibition test to <i>Daphnia magna</i> of dimethyl terephthalate, test No.A010462-3
R0060	2-(Dimethylamino)ethyl acrylate	2439-35-2	Ministry of the Environment (1997) Ecotoxicity test project, growth inhibition test to <i>Selenastrum capricornutum</i> , 2-dimethylaminoethylacrylate, test No.6B676G
R0061	2-(Dimethylamino)ethyl methacrylate	2867-47-2	Ministry of the Environment (1998) Ecotoxicity test project, 2-(dimethylamino)ethyl methacrylate, test No.1997—"sei"17
R0062	<i>N,N</i> -Dimethyldodecylamine <i>N</i> -oxide	1643-20-5	Ministry of the Environment (1999) Ecotoxicity test project, growth inhibition to <i>Selenastrum capricornutum</i> of <i>N,N</i> -dimethyl- <i>N</i> -oxidododecylamine, test No.NMMP/E98/1100
R0063	<i>N,N</i> -Dimethylformamide	68-12-2	El Jay, A. (1996) Toxic Effects of Organic Solvents on the Growth of <i>Chlorella vulgaris</i> and <i>Selenastrum capricornutum</i> . Bull. Environ. Contam. Toxicol., 57, 191-198.
R0064	<i>Di-n</i> -butyl phthalate	84-74-2	CMA (1991) Early life stage toxicity of di- <i>n</i> -butyl phthalate (DnBP) to the rainbow trout (<i>Oncorhynchus mykiss</i>) under flow-through conditions. Resource Analysts, Inc., EnviroSystems Division Report No. 9102-CMA, NTIS Doc No. 40-9126399, Fiche No. OTS0533141, Chemical Manufacturers Association.; Rhodes, J.E., Adams, W.J., Biddinger, G.R., Robillard, K.A. and Gorsuch, J.W. (1995) Chronic toxicity of 14 phthalate esters to <i>Daphnia magna</i> and Rainbow trout (<i>Oncorhynchus mykiss</i>). Environ.Toxicol.Chem. 14, 1967-1976.
R0065	2-(<i>Di-n</i> -butylamino)ethanol	102-81-8	Ministry of the Environment (2004) Ecotoxicity test project, growth inhibition to <i>Selenastrum capricornutum</i> , 2-(<i>di-n</i> -butyleamino)ethanol, test No.2003-"sei"71
R0066	Dinitrotoluene	25321-14-6	Kuhn, R., Pattard, M., Pernak, K. and Winter, A. (1989) Results of the harmful effects of water pollutants to <i>daphnia magna</i> in the 21 day reproduction test. Water Res., 23 (4): 501-510.
R0067	1,4-Dioxane	123-91-1	Ministry of the Environment (1996) Ecotoxicity test project, growth inhibition test to <i>Selenastrum capricornutum</i> , 1,4-dioxane, test No.07021 Ministry of the Environment (1996) Ecotoxicity test project, acute immobilization test to <i>Daphnia magna</i> , 1,4-dioxane, test No.07022 Ministry of the Environment (1996) Ecotoxicity test project, reproduction inhibition test to <i>Daphnia magna</i> , 1,4-dioxane, test No.07023 Ministry of the Environment (1996) Ecotoxicity test project, acute toxicity test to <i>Orizias latipes</i> , 1,4-dioxane, test No.07024
R0068	Diphenylamine	122-39-4	Ministry of the Environment (1996) Reproduction inhibition test to <i>Daphnia magna</i> of toluene, Ministry of the Environment, test No.91543

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R0069	Epichlorohydrin	106-89-8	Deneer, J.W., Sinnige, T.L., Seinen, W. and Hermens, J.L.M. (1988) A quantitative structure-activity relationship for the acute toxicity of some epoxy compounds to the guppy. <i>Aquatic Toxicol.</i> , 13, 195-204.
R0070	1,2-Epoxypropane; propylene oxide	75-56-9	Deneer, J.W., Sinnige, T.L., Seinen, W. and Hermens, J.L.M. (1988) A quantitative structure- activity relationship for the acute toxicity of some epoxy compounds to the guppy. <i>Aquatic Toxicol.</i> , 13, 195-204.
R0071	2,3-Epoxypropyl methacrylate	106-91-2	Ministry of the Environment (1997) Reproduction inhibition test to <i>Daphnia magna</i> of glycidyl methacrylate, test No.6B699G
R0072	2,3-Epoxypropyl phenyl ether	122-60-1	Bridie, A.L., C.J.M. Wolff, and M. Winter (1979) The acute toxicity of some petrochemicals to goldfish. <i>Water RES.</i> , 13, 623-626.
R0073	2-Ethoxyethyl acetate; ethylene glycol monoethyl ether acetate	111-15-9	Bailey, H.C., Liu, D.H.W. and Javitz, H.A. (1985) Time/toxicity relationships in short-term static, dynamic and plug-flow bioassays. <i>ASTM spec. Tech. Publ.</i> 891, 193-212.
R0074	Ethyl acrylate	140-88-5	BAMM, Basic Acrylic Monomer Manufacturers (1997) Chronic toxicity of ethyl acrylate to <i>Daphnia magna</i> . Report #443030, ABC Laboratories, Inc., U.S. EPA/OPTS Public Files, Fiche #: OTS0558975, Doc#: 86970000765.
R0075	Ethylbenzene	100-41-4	Niederlehner, B.R., Cairns, J. and Smith, E. P. (1998) Modeling acute and chronic toxicity of nonpolar narcotic chemicals and mixtures to <i>Ceriodaphnia dubia</i> . <i>Ectotoxicol. Environ. Saf.</i> , 39, 136-146.
R0076	Ethylene glycol	107-21-1	Ministry of the Environment (2002) Reproduction inhibition test to <i>Daphnia magna</i> of ethylneglycol ,test No.2001-"sei"25
R0077	Ethylene glycol monoethyl ether	110-80-5	Rose, R.M., Warne, M.S.J. and Lim, R.P. (1998) Quantitative structure-activity relationships and volume fraction analysis for nonpolar narcotic chemicals to the Australian cladoceran <i>ceriodaphnia</i> . <i>Arch. Environ. Contam. Toxicol.</i> , 34, 248-252.
R0078	Ethylene glycol monomethyl ether	109-86-4	Benville, P. (1974) Unpublished report transmitted from Tiburon Laboratory (Dawson et al., 1975)
R0079	Ethylene oxide	75-21-8	Conway, R.A., Waggy, G.T., Spiegel, M.H. and Berglund, R.L. (1983) Environmental fate and effects of ethylene oxide. <i>Environ. Sci. Technol.</i> , 17,107-112.
R0080	Ethylenediamine	107-15-3	Kuhn, R., Pattard, M. Pernak, K. and Winter, A. (1989) Results of the harmful effects of water pollutants to <i>Daphnia magna</i> in the 21 day reproduction test. <i>Water Research</i> , 23, 501-510.
R0081	Ethylenediaminetetraacetic acid	60-00-4	Curtis, M.W. and Ward, C.H. (1981) Acuatic toxicity of forty industrial chemicals: Testing in support of hazardous substance spill prevention regulation. <i>J. Hydrol. (Amsterdam)</i> , 51, 359-367.
R0082	2-Ethylhexyl methacrylate	688-84-6	Ministry of the Environment (1998) Ecotoxicity test project, 2-ethylhexil methacrylate ,test No.7B763G
R0083	Formaldehyde	50-00-0	Tisler, T. and Zagorc-Koncan, J. (1997) Comparative assessment of toxicity of phenol, formaldehyde and industrial wastewater to aquatic organisms. <i>Water Air soil Pollut</i> , 97, 315-322.
R0084	Glutaraldehyde	111-30-8	Union Carbide (1974) Toxicity of 25% glutaraldehyde to <i>Selenastrum capicornutum</i> in PAAP medium, Union Carbide Aquatic Environmental Services, December 1974. (OECD/UNEP, 1998)
R0085	Glyoxal	107-22-2	Conway, R.A., Waggy, G.T., Spiegel, M.H. and Berglund, R.L. (1983) Environmental fate and effects of ethylene oxide. <i>Environ.Sci. Technol.</i> , 17, 107-112.
R0086	Hexamethylene diisocyanate	822-06-0	Bayer (2000) Unpublished data, 861 A/99 (OECD/UNEP/WHO/ILO, 2001).
R0087	Hexamethylenediamine	124-09-4	Ministry of the Environment (2003) Reproduction inhibition test to <i>Daphnia magna</i> of 1,6-hexanediamine, test No.6B672G
R0088	Hydrazine	302-01-2	Harrach, C.B. (1978) Biological effects of aqueous hydrazine solutions. In: <i>Proceedings of the Conference on Environmental Chemistry, Hydrazine Fuels, 1977, Florida, Tyndall Air Force Base, Civil and Environmental Engineering Development Office</i> , pp. 167-176 (CEEDO-TR-78-14) (AD/A054194).
R0089	Hydroquinone	123-31-9	DeGraeve, G.M., Geiger, D.L., Meyer, J.S. and Bergman, H.L. (1980) Acute and embryo-larval toxicity of phenolic compounds to aquatic biota. <i>Arch. Environ. Contam. Toxicol.</i> 9, 557-568.
R0090	2-Imidazolidinethione	96-45-7	Ministry of Economy, Trade and Industry (1993) report on the schem of assessment for ecotoxicity
R0091	Inorganic cyanide compounds (except complex salts and cyanates)	-	Pablo, F., Stauber, J.L. and Buckney, R.T. (1997a) Toxicity of cyanide and cyanide complexes to the marine diatom <i>Nitzschia closterium</i> . <i>Water Res.</i> , 31, 2435-2442.
R0092	Isoprene	78-79-5	Ministry of the Environment (2001) Reproduction inhibition test to <i>Daphnia magna</i> of isoprene, test No.A010464-3G

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R0093	4,4'-Isopropylidenediphenol ; bisphenol A	80-05-7	Sohoni, P., Tyler, C.R., Hurd, K., Caunter, J., Hetheridge, M., Williams, T., Woods, C., Evans, M., Toy, R., Gargas, M. and Sumpter, J.P. (2001) Reproductive effects of long-term exposure to bisphenol A in the fathead minnow (<i>Pimephales promelas</i>). <i>Environ. Sci. Technol.</i> , 35, 2917-2925.; Sumpter, J.P., Tyler, C.R. and Sherazi, A. (2001) Bisphenol A: Multigeneration study with the fathead minnow (<i>Pimephales promelas</i>). Brunel University, Uxbridge, Middlesex, UB8 3PH, UK. (ECB, 2003)
R0094	Maleic anhydride	108-31-6	Monsanto (1982b) Acute toxicity of maleic anhydride to bluegill sunfish (<i>Lepomis macrochirus</i>). Monsanto study number AB-82-196. U.S. EPA Doc I.D. 878214782, OTS 02066655.;Monsanto (1982c) Acute toxicity of maleic anhydride to rainbow trout (<i>Salmo gairdneri</i>). Monsanto study number AB-82-195. U.S. EPA Doc I.D. 878214781, OTS 02066655.
R0095	Manganese and its compounds	-	Goettl, J.P.J. and Davies, P.H. (1978) Water pollution studies job progress report, Federal Aid Project F-33-R-13, DNR, Boulder, C :46.
R0096	Mercaptoacetic acid	68-11-1	Ministry of the Environment (1999) Ecotoxicity test project, Reproduction inhibition test to <i>Daphnia magna</i> of mercaptoacetic acid, test No.NMMP/E98/1020
R0097	Methacrylic acid	79-41-4	Zeneca (1999b) Methacrylic acid: Determination of toxicity to the green alga <i>Selenastrum capricornutum</i> in open vessels. Brixham Environmental Laboratory, Zeneca Limited. BL6576/B, March 1999.
R0098	Methacrylonitrile	126-98-7	Ministry of the Environment (2000) Growth inhibition test to <i>Selenastrum capricornutum</i> of Methacrylonitrile, test No.1999-"sei"13
R0099	2-Methoxyethyl acetate; ethylene glycol monomethyl ether acetate	110-49-6	Devillers, J., Chezeau, A., Poulsen, V. and Thybaud, E. (2003) Effects of ethylene glycol ethers on the reproduction of <i>Ceriodaphnia dubia</i> . <i>Chemosphere</i> , 50, 373-376.
R0100	Methyl acrylate	96-33-3	Ministry of the Environment (2002) Reproduction inhibition test to <i>Daphnia magna</i> of methyl acrylate, test NoNMMP/E99/3050,
R0101	Methyl methacrylate	80-62-6	SLI, Springborn Laboratories, Inc. (1997) Methyl methacrylate – the chronic toxicity to <i>Daphnia magna</i> under flow through conditions. SLI report # 96-12-6804, study # 13536.0696. 6120. 130. Methacrylates Producers Association. Final report
R0102	Methyl-1,3-phenylene diisocyanate; <i>m</i> -tolylene diisocyanate	26471-62-5	Tadokoro, H., Nozaka, T., Hirata, S. and Tounai, T. (1997). Ecotoxicities of TDI and TDA to fish, Algae and aquatic invertebrates. Chemicals Inspection and Testing Institute, Japan. III report No. 11217. Available from: British Library Document Supply Centre, Boston Spa, Wetherby, West Yorks.
R0103	4,4'-Methylenedianiline	101-77-9	Ministry of the Environment (2002) Reproduction inhibition test to <i>Daphnia magna</i> of 4,4'-methylenebisbenzidine, test No.A010459-3
R0104	3-Methylpyridine	108-99-6	Ministry of the Environment (1997) Growth inhibition test to <i>Selenastrum capricornutum</i> of 3-Methylpyridine, test No.EAI96006 Ministry of the Environment (1997) Ecotoxicity test project, Reproduction inhibition test to <i>Daphnia magna</i> of 3-Methylpyridine, test No.EDR96006
R0105	α -Methylstyrene	98-83-9	Ministry of the Environment (1997) Growth inhibition test to <i>Selenastrum capricornutum</i> of (1-Methylethenyl)benzene, test No.6B678G
R0107	Nickel compounds	-	Chao, M.R. and Chen, C.Y. (2000) No-observed-effect concentrations in batch and continuous algal toxicity tests. <i>Environ.Toxicol.Chem.</i> , 19, 1589-1596.
R0108	Nitrobenzene	98-95-3	Kühn, R., Pattard, M., Pernak, K-D. and Winter, A. (1989) Results of the harmful effects of water pollutants to <i>Daphnia magna</i> in the 21 day reproduction test. <i>Water Res.</i> , 23, 501-510.
R0109	<i>p</i> -Nitrochlorobenzene	100-00-5	Kuhn, R., Pattard, M., Permak, K. and Winter, A. (1989) Results of harmful effects of water pollutants to <i>Daphnia magna</i> in the 21 day reproduction test. <i>Water Res.</i> , 23, 501-510.
R0110	Nitroglycerin	55-63-0	Bentley, R.E., J.W. Dean, S.J. Ells, G.A. LeBlanc, S. Sauter, K.S. Buxton, and B.H. Sleight III (1978) Laboratory Evaluation of the Toxicity of Nitroglycerine to Aquatic Organisms. U.S. Army Medical Res. Develop. Command, Washington, D.C.:82 p. (U.S.NTIS AD-A061739).
R0111	Nonylphenol	25154-52-3	Kopf, W. (1997) Wirkung endokriner stoffe in biotests mit wasserorganismen. In <i>Stoffe mit endokriner wirkung in wasser</i> . Bayerisches landesamt fur wasserwirtschaft, Institut fur Wasserforschung Munchen (ed) Olenbourg.
R0112	1-Octanol	111-87-5	Pickering, Q.H., Lazorchak, J.M. and Winks, K.L. (1996) Subchronic sensitivity of one-, four-, and seven-day-old fathead Minnow (<i>Pimephales promelas</i>) larvae to five toxicants. <i>Environ. Toxicol. Chem.</i> , 15, 353-359.
R0113	Phenol	108-95-2	Birge, W.J., Black, J.A. and Bruser, D.M. (1979) Toxicity of organic chemicals to embryo-larval stages of fish. Office of Toxic Substances, U.S. Environmental Protection Agency, Washington, D.C.(NTIS Report; EPA-560/11 -79-007).
R0114	<i>m</i> -Phenylenediamine	108-45-2	Hutler, D. (1992) Chronic toxicity of <i>m</i> -phenylenediamine to <i>Daphnia magna</i> . E.I. DuPont de Nemores & Co., U.S. EPA/OPTS Public Files: Fiche No.OTS0539812, Doc. No. 88-920002852.

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Table 6

Reference No	Chemical name	CAS No	References
R0115	Phthalic anhydride	85-44-9	van Leeuwen, C.J., Grootelaar, E.M.M. and Niebeek, G. (1990) Fish embryos as teratogenicity screens: a comparison of embryotoxicity between fish and birds. <i>Ecotoxicol. Environ. Saf.</i> , 20, 42-52.
R0116	Piperazine	110-85-0	
R0117	Poly(oxyethylene) nonylphenyl ether	9016-45-9	Hall, W.S., Patoczka, J.B., Miranda, R.J., Porter, B.A. and Miller, E. (1989) Acute toxicity of industrial surfactants to <i>Mysidopsis bahia</i> . <i>Arch. Environ. Contam. Toxicol.</i> , 18, 765-772.
R0118	Poly(oxyethylene)alkyl ether (alkyl group: C=12-15)	-	Lewis, M.A. and Hamm, B.G. (1986) Environmental modification of the photosynthetic response of lake plankton to surfactants and significance to a laboratory-field comparison. <i>Water Res.</i> , 20, 1575-1582.
R0119	Poly(oxyethylene)octylphenyl ether	9036-19-5	Lewis, M.A. and Hamm, B.G. (1986) Environmental modification of the photosynthetic response of lake plankton to surfactants and significance to a laboratory-field comparison. <i>Water Res.</i> , 20, 1575-1582.
R0120	Polymer of 4,4'-isopropylidenediphenol and 1-chloro-2,3-epoxypropane (liquid); bisphenol A type epoxy resin (liquid)	25068-38-6	Shell Research (1984) SBGR.84.234 EPIKOTE 828: Chronic Toxicity to <i>Daphnia magna</i> .
R0121	Pyridine	110-86-1	Ministry of the Environment (1996) Reproduction inhibition test to <i>Selenastrum capricornutum</i> of pyridine, test No.07041
R0122	Pyrocatechol	120-80-9	Devillers, J, Chambon, P., Zakarya, D., Chastrette, M. and Chambon, R (1987) A predictive structure-toxicity model with <i>Daphnia magna</i> . <i>Chemosphere</i> , 16, 1149-1163.
R0123	Selenium and its compounds	-	Boyum, K.W. (1984) The toxic effect of selenium on the zooplankton, <i>Daphnia magna</i> and <i>Daphnia pulicaris</i> , in water and the food source (<i>Chlamydomonas reinhardtii</i>). Ph.D. thesis. University of Wisconsin-Milwaukee, Milwaukee, WI. Available from, University Microfilms, Ann Arbor, MI. Order No. 85-09248.
R0124	Styrene	100-42-5	Cushman, J.R., Rausina, G.A., Cruzan, G., Gilbert, J. Williams, E., Harrass, M.C., Sousa, J.V., Putt, A.E., Garvey, N.A., Laurent, J.P.S., Hoberg, J.R. and Machado, M.W. (1997) Ecotoxicity hazard assessment of styrene. <i>Ecotoxicol. Environ. Saf.</i> , 37,173-180.
R0125	Terephthalic acid	100-21-0	Ministry of the Environment (2003) Reproduction inhibition test to <i>Selenastrum capricornutum</i> of terephthalic acid, test No.14031
R0126	1,3,5,7-Tetraazatricyclo[3.3.1.1 ^{3,7}]decane	100-97-0	Ministry of the Environment (2003) Reproduction inhibition test to <i>Daphnia magna</i> of hexamethylenetetramine, Ministry of the Environment, test No.A020367-3
R0127	Tetrachloroethylene	127-18-4	Ministry of Economy, Trade and Industry (1992) report on the schem of assessment for ecotoxicity
R0128	Tetrachloromethane	56-23-5	Ministry of Economy, Trade and Industry (1992) report on the schem of assessment for ecotoxicity
R0130	Tetrahydromethylphthalic anhydride	11070-44-3	Ministry of the Environment (1997) Ecotoxicity test project, reproduction inhibition test to <i>Daphnia magna</i> of tetrahydromethyl-1,3-isobenzofurandione, test No.EDR96007
R0131	Thiourea	62-56-6	Geyer, H., Scheunert, I. and Korte, F. (1985) The effects of organic environmental chemicals on the growth of the alga <i>Scenedesmus subspicatus</i> : a contribution to environmental biology. <i>Chemosphere</i> , 14, 1355-1369.
R0132	Toluene	108-88-3	Niederlehner, B.R., Cairns, J. and Smith, E. P. (1998) Modeling acute and chronic toxicity of nonpolar narcotic chemicals and mixtures to <i>Ceriodaphnia dubia</i> . <i>Ecotoxicol. Environ. Saf.</i> , 39, 136-146.
R0133	2,4-Toluenediamine	95-80-7	Ministry of the Environment (2002) Ecotoxicity test project, Reproduction inhibition test to <i>Daphnia magna</i> of Toluene-2,4-diamine, test No.13043
R0134	<i>p</i> -Toluidine	106-49-0	Ministry of the Environment (1996) Ecotoxicity test project, Reproduction inhibition test to <i>Daphnia magna</i> of <i>p</i> -toluidine, test No.91528,
R0135	<i>o</i> -Toluidine	95-53-4	Ministry of the Environment (1996) Ecotoxicity test project, Reproduction inhibition test to <i>Daphnia magna</i> of <i>o</i> -toluidine, test No.91533
R0136	Tribromomethane; bromoform	75-25-2	Ward, G.S., Parrish, P.R. and Rigby, R.A. (1981) Early life stage toxicity tests with a saltwater fish: Effects of eight chemicals on survival, growth, and development of Sheepshead minnows. <i>J. Toxicol. Environ. Health</i> , 8, 225-240.
R0137	Trichloroacetaldehyde	75-87-6	Janssen, C.R., Espiritu, E.Q. and Persoone, G. (1993) Evaluation of the new "enzymatic inhibition" criterion for rapid toxicity testing with <i>Daphnia magna</i> . In: A. Soares and P. Calow (Eds.), <i>Progress in Standardization of Aquatic Toxicity Tests</i> , Lewis Publ: 71-81.
R0138	1,1,2-Trichloroethane	79-00-5	Adema, D.M.M. and Vink, G.J. (1981) A comparison study of the toxicity of 1,1,2-trichloroethane, dieldrin, pentachlorophenol and 3,4-dichloroaniline for marine and freshwater organism. <i>Chemosphere</i> , 10, 533-554.
R0139	Trichloroethylene	79-01-6	Ministry of Economy, Trade and Industry (1992) report on the schem of assessment for ecotoxicity

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Table 6

Reference No	Chemical name	CAS No	References
R0140	3,5,5-Trimethyl-1-hexanol	3452-97-9	Ministry of the Environment (1997) Ecotoxicity test project, Reproduction inhibition test to Daphnia magna of 3,5,5-trimethyl-1-hexanol, test No.91738
R0141	1,3,5-Trimethylbenzene	108-67-8	Kuhn, R., Pattard, M., Pernak, K. and Winter, A. (1989) Results of the harmful effects of water pollutants to Daphnia magna in the 21 day reproduction test. Water Res., 23, 501-510.
R0142	Tris (2-chloroethyl) phosphate	115-96-8	Ministry of the Environment (1997) Ecotoxicity test project, Reproduction inhibition test to Daphnia magna of tris(2-chloroethyl) phosphate, test No.NMMP/E97/3030
R0143	Tris (dimethylphenyl) phosphate	25155-23-1	Ministry of the Environment (1998) Ecotoxicity test project, trixylenitriol phosphate, test NoNMMP/E97/3030
R0144	1,3,5-Tris(2,3-epoxypropyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione	2451-62-9	Ciba-Geigy (1988c) Report on the test for acute toxicity of TK 10622 to zebra fish (Brachydanio rerio). Ciba-Geigy Ltd., Basel, Switzerland. (NICNAS, 2001)
R0145	Vinyl acetate	108-05-4	Ministry of the Environment (2002) Reproduction inhibition test to Daphnia magna of vinyl acetate, test No2001-"sei"29
R0146	4-Vinyl-1-cyclohexene	100-40-3	Ministry of the Environment (2001) ,reproduction inhibition test to Daphnia magna of 4-vinyl-1-cyclohexene test No.A000470-3G
R0147	2-Vinylpyridine	100-69-6	Ministry of the Environment (2002) Ecotoxicity test project, 2-vinylpyridine, test No.92528
R0148	Xylene	1330-20-7	Ministry of the Environment (1999) Ecotoxicity test project of chemical substances, Biosafety research center foods, drugs and pesticides
R0149	2,6-Xylenol	576-26-1	Barahona, M.V. and Sanchez-Fortun, S. (1996) Comparative sensitivity of three age classes of artemia salina larvae to several phenolic compounds. Bull. Environ. Contam. Toxicol., 56, 271-278.
R0150	Zinc compounds (water-soluble)	-	Spehar, R.L. (1976) Cadmium and zinc toxicity to jordanella floridae. EPA-600/3-76-096, U.S.EPA, Duluth, MIN:34(1976)/ M.S. Thesis, Univ. of Minnesotaminneapolis, MN..

Notes:

- 1) MOE: Margin of exposure, UF: The product of uncertainty factors, BW: Body weight
- 2) Conclusion
 - NC: Considered to be of no immediate concern and a low priority for further work (MOE > UF)
 - C: Considered to be of concern (MOE < UF or MOR = UF)
 - L: Lack of exposure information. Risk assessment was not conducted.
 - NE: Exposure is negligible. (no immediate concern)
 - H: No hazard data. Risk assessment was not conducted.
- 3) In case where drinking water data was not available, concentrations in ground water or river water were substituted for concentrations in drinking water.
- 4) In the human health risk assessment, underlined endpoints are adverse effects used for Initial Risk Assessment.
- 5) Values of MOE and UF in () are for reference only.
- 6) In the environmental risk assessment, "Localized" exposure denotes that the releases measured in the environmental exposure assessment were confined to a limited area. That is, one business institute released more than one half of the total domestic release, or the sum of the releases from two institutions was more than 80% of the total domestic release.
- 7) Reference No. are for the sake of convenience to pick up the reference of each substance.