

Annex VI. List of priority hazardous and hazardous substances of Lithuania

AA-MAC OF PRIORITY HAZARDOUS SUBSTANCES

Substance	CAS No.	AA-MAC, mg/l to sewage system	AA-MAC, mg/l to the environment	AA-MAC, µg/l in the environment
Hg	CAS 7439-97-6	0,01	0,002	1 ¹
Cd	CAS 7440-43-9	0,1	0,04	5 ¹
Hexachlorocyclohexane (HCH)*	CAS 608-73-1 CAS 58-89-9	0,04	0,002	0,1 ¹
Tetrachlormethane (CCl ₄ ,)	CAS 56-23-5	1,5	0,24	12
DDT	CAS 50-29-3	-	-	10
Pentachlorophenol (PCP)	CAS 87-86-5	0,8	0,04	2
Aldrin	CAS 309-00-2	-	-	0,01
Dieldrin	CAS 60-57-1	-	-	0,01
Endrin	CAS 72-20-8	-	-	0,005
Isodrin	CAS 465-73-6	-	-	0,005
Hexachlorobenzene (HCB)	CAS 118-74-1	0,012	0,0006	0,03
Hexachlorbutadiene (HCBd)	CAS 87-68-3	0,04	0,002	0,1
Trichlormethane (chloroform)	CAS 67-66-3	1	0,2	12
1,2-dichlorethane	CAS 107-06-2	0,2	0,2	10
Trichlorethylene	CAS 79-01-6	-	0,2	10
Perchloroethylene	CAS 127-18-4	-	0,2	10
Trichlorobenzene**	CAS 12002-48-1 CAS 120-82-1, CAS 87-61-1, CAS 180-70-3	0,1	0,008	0,4

¹ Total concentration of substance (AA-MAC) in inland surface water

* HCH means isomers (CAS 608-73-1); product containing at least 99 percents of 1,2,3,4,5,6-hexachlorocyclohexane g-isomer, is called lindane (CAS 58-89-9).

** It can be one of isomers: 1,2,3-TCB (CAS 87-61-6); 1,2,4-TCB (CAS 120-82-1); 1,3,5-TCB (CAS 180-70-3).

AA-MAC OF HAZARDOUS AND OTHER CONTROLLED SUBSTANCES

A part lists the substances, which are proposed to be as priority hazardous substances by EC (in Lithuanian legislation they are called "hazardous substances") by Water Framework Directive 2000/60/EB.

B part (B1 and B2 parts) lists other substances, which are controlled in Lithuania.

Substance or groups of substances	Name of substance	CAS No.	Unit	AA-MAC to sewage system	AA-MAC to the environment	AA-MAC in the environment	Limit concentration ¹ , to sewage system	Limit concentration ¹ , to the environment
A part								
Aromatic hydrocarbons	Benzene	CAS 71-43-2	mg/l	0,8	0,04	0,002	0,16	0,008
Halogenated hydrocarbons	C10-13-chloralkanes ²	CAS 85535-84-8	µg/l	40	0,2	0,01	8	0,1
	Dichloromethane	CAS 75-09-2	mg/l	4	0,2	0,01	0,8	0,04
Halogenated aromatic hydrocarbons	Brominated diphenylethers ²			-	-	-	-	-
	Pentabromobiphenyl ethers ³	CAS 32534-81-9	µg/l	-	-	0,1	-	-
	Pentachlorobenzene	CAS 608-93-5	µg/l	12	0,6	0,03	2,4	0,12
Metals and their compounds	Lead and its compounds	CAS 7439-92-1	mg/l	0,5	0,1	0,005	0,1	0,02
	Nickel and its compounds	CAS 7440-02-0	mg/l	0,5	0,2	0,01	0,1	0,04
Organotin compounds	Tributyltin	CAS 688-73-3	µg/l	0,4	0,02	0,001	0,08	0,004
	Tributyltin-cations	CAS 36643-28-4	µg/l	0,4	0,02	0,001	0,08	0,004
Polycyclic aromatic hydrocarbons	Anthracene	CAS 120-12-7	µg/l	4	0,2	0,01	0,8	0,04
	Benz (a)pyrene	CAS 50-32-8	µg/l	20	1	0,05	4	0,2
	Benz (b) fluoranthene	CAS 205-99-2	µg/l	16	0,8	0,04	3,2	0,16
	Benz (g,h,i) perylene	CAS 191-24-2	µg/l	12	0,6	0,03	2,4	0,12
	Benz (k) fluoranthene	CAS 207-08-9	µg/l	16	0,8	0,04	3,2	0,16
	Fluoranthene	CAS 206-44-0	µg/l	120	6	0,3	24	1,2
	Indeno(1,2,3-cd)pyrene	CAS 193-39-5	µg/l	16	0,8	0,04	3,2	0,16
	Naphtalene	CAS 91-20-3	mg/l	0,4	0,02	0,001	0,08	0,004
Pesticides ⁴	Alachlor	CAS 15972-60-8	µg/l	-	-	0,01	-	-
	Atrazine	CAS 1912-24-9	mg/l	-	-	0,001	-	-
	Chlorfenvinphos	CAS 470-90-6	µg/l	-	-	0,01	-	-

Substance or groups of substances	Name of substance	CAS No.	Unit	AA-MAC to sewage system	AA-MAC to the environment	AA-MAC in the environment	Limit concentration ¹ , to sewage system	Limit concentration ¹ , to the environment
	Chlorpyrifos	CAS 2921-88-2	µg/l	-	-	0,0001	-	-
	Duron	CAS 330-54-1	µg/l	-	-	0,1	-	-
	Endosulphane	CAS 115-29-7	µg/l	-	-	0,001	-	-
	Endosulphane (alfa)	CAS 959-98-8	µg/l	-	-	0,001	-	-
	Isoproturone	CAS 34123-59-6	µg/l	-	-	0,32	-	-
	Simasin	CAS 122-34-9	mg/l	-	-	0,001	-	-
	Trifluralin	CAS 1582-09-8	µg/l	40	2	0,1	8	0,4
Phenols	Nonylphenols ²	CAS 25154-52-3		-	-	-	-	-
	4-(para)-nonylphenols	CAS 104-40-5	mg/l	0,4	0,02	0,001	0,08	0,004
	Octylphenols ²	CAS 1806-26-4		-	-	-	-	-
	Para-tert-octylphenols	CAS 140-66-9	mg/l	0,4	0,02	0,001	0,08	0,004
Phtalates	Di(2-ethylhexyl)phtalate	CAS 117-81-7	µg/l	40	2	0,1	8	0,4
B part								
List B1								
Metals	Chromium -total	CAS 7440-47-3	mg/l	2	0,5	0,01	0,4	0,1
	Chromium-VI		mg/l	0,2	0,1	0,001	0,04	0,04
	Copper	CAS 7440-50-8	mg/l	2	0,5	0,01	0,4	0,1
	Tin	CAS 2406-52-2	mg/l	-	1	-	-	0,4
	Zink	CAS 7440-66-6	mg/l	3	0,4	0,1	0,6	0,16
	Vanadium	CAS 7440-62-2	mg/l	-	2	-	-	0,8
	Aluminium	CAS 7429-90-5	mg/l	-	0,5	-	-	0,2
	Arsenic	CAS 7440-38-2	mg/l	0,15	0,05	-	0,03	0,02
Other substances	Oil hydrocarbons (total)		mg/l	25	5	0,05	5	1
	Phenols (except those listed in part A)		mg/l	3	0,2	0,001	0,6	0,08
	Fat		mg/l	100	5	-	20	1
	Sulphides (mineral) ⁵		mg/l	2	0,5	-	0,4	0,2
	Chlorine (activ)		mg/l	0,6	0,1	-	0,12	0,04
	Cyanides		mg/l	0,5	0,1	-	0,1	0,04
List B2								
Other substances	Total nitrogen		mg/l	100	30	2,5	-	12
	Nitrites (NO ₂ -N)/NO ₂		mg/l	0,9/3	0,45/1,5	0,03/0,1	-	0,09/0,3
	Nitrates (NO ₃ -N)/NO ₃		mg/l	69/300	23/100	2,3/10	-	9/39
	Amonium nitrogen (NH ₄ -N)		mg/l	15	5	1	-	2
	Total phosporus		mg/l	20	4	0,1	-	1,6

Substance or groups of substances	Name of substance	CAS No.	Unit	AA-MAC to sewage system	AA-MAC to the environment	AA-MAC in the environment	Limit concentration ¹ , to sewage system	Limit concentration ¹ , to the environment
	Phosphates (PO ₄ ⁻ P)/PO ₄		mg/l	-	-	0,0653/0,2	-	-
	Chlorides		mg/l	2000	1000	300	-	500
	Fluorides		mg/l	10	8	-	2	3,2
	Sulphates		mg/l	1000	300	100	300	200
	Synthetic surface active substances (anionic)		mg/l	10	1,5	-	2	0,6
	Synthetic surface active substances (non-ionic)		mg/l	15	2	-	3	0,8

¹ Limit concentration – maximum limit concentration is calculated, measured or planned concentration of substance, till which the control of substance is not needed yet.

² Group of substances.

³ Limit concentrations are not yet set because of lack of data on their toxicity. Preliminary limit concentration (AA-MAC) to sewage system – 0,04 mg/l.

⁴ Pesticides usually reach the environment from diffuse pollution sources; therefore the limit concentrations in wastewater are not set.

⁵ Preliminary values applied after the methods of determination of mineral sulphides.