

On Emission Limit Values for Hazardous Substances per Unit of Production<sup>1</sup>  
Regulation No. 76 of the Minister of the Environment of 16 October 2003  
(RTL<sup>[1]</sup> 2003, 110, 1737),  
entered into force 1 January 2004.

This Regulation is established on the basis of subsection 26<sup>5</sup> (9) of the Water Act (RT<sup>[2]</sup> I 1994, 40, 655; 1996, 13, 241; 1998, 2, 47; 61, 987; 1999, 10, 155; 54, 583; 95, 843; 2001, 7, 19; 42, 234; 50, 283; 94, 577; 2002, 1, 1; 61, 375; 63, 387; 2003, 13, 64; 26, 156; 51, 352).

### § 1. Emission limit values for mercury per unit of production

(1) The average monthly emission limit values for mercury (Hg) per unit of production are as follows:

- 1) in the chemical industry that uses Hg as a catalyst in the production of chloroethene (vinyl chloride), 0.1 g Hg/t production capacity of chloroethene (vinyl chloride);
- 2) in the chemical industry that uses Hg as a catalyst in the production of chloroethene (vinyl chloride), 5 g Hg/kg Hg processed in other processes;
- 3) upon the preparation of Hg catalyst used in the production of chloroethene (vinyl chloride), 0.7 g Hg/kg Hg processed;
- 4) upon the production of organic or inorganic Hg compounds, 0.5 g Hg/kg Hg processed;
- 5) upon the production of batteries containing Hg, 0.03 g Hg/kg Hg processed.

(2) The average monthly emission limit values for mercury per unit of production in the chloroalkaline electrolysis industry are as follows:

- 1) in the waste water of chlorine production plants, 0.5 g Hg/t chlorine production capacity;
- 2) amount of Hg in the waste water of the entire plant, if the water is reused, 1 g Hg/t chlorine production capacity;
- 3) amount of Hg in the waste water of the entire plant, 5 g Hg/t chlorine production capacity;

(3) The daily average emission of mercury in the chloroalkaline electrolysis industry shall not exceed the monthly average limit value by more than 4 times, and shall not exceed the monthly average limit value by more than 2 times in other industries.

### § 2. Emission limit values for cadmium per unit of production

(1) The average monthly emission limit values for cadmium (Cd) per unit of production are as follows:

- 1) upon the production of Cd compounds and stabilizers, 0.5g Cd/kg Cd used;
- 2) upon the production of pigments, in galvanizing equipment, 0.3 g Cd/kg Cd used;
- 3) upon the production of batteries, 1.5 kg Cd/kg Cd used.

(2) If the monthly average emission limit value for cadmium (Cd) has been reached, the daily average emission shall not exceed the monthly average limit value by more than 2 times.

### § 3. Emission limit values for pentachlorophenol per unit of production

(1) The monthly average emission limit value for pentachlorophenol (PCP, C<sub>6</sub>HCl<sub>5</sub>O; CAS<sup>[i]</sup> No. 87-86-5) per unit of production, upon the production of Na pentachlorophenolate in the hydrolysis of hexachlorobenzene, is 25 g PCP/t production or utilisation capacity.

(2) If the monthly average emission limit value for pentachlorophenol has been reached, the daily average emission shall not exceed the monthly average limit value by more than 2 times.

§ 4. Emission limit values for hexachlorobutadene per unit of production

(1) The monthly average emission limit values for hexachlorobutadene (HCBD,  $C_4Cl_6$ , CAS No. 87-68-3) upon the production of perchloroethylene and tetrachloromethane (carbon tetrachloride) by perchlorination is 1.5 g HCBD/t perchloroethylene and carbon tetrachloride production capacity.

(2) If the monthly average emission limit value for hexachlorobutadene has been reached, the daily average emission shall not exceed the monthly average limit value by more than 2 times.

§ 5. Emission limit values for trichloromethane per unit of production

(1) The monthly average emission limit values for trichloromethane (chloroform,  $CHCl_3$ , CAS No. 67-66-3) per unit of production are as follows:

1) upon the production of chloromethane from methane or methanol and methane (hydrochlorination of methanol and chlorination of methyl chloride), 10 g  $CHCl_3$ /t chloromethane production capacity;

2) upon the production of chloromethanes by the chlorination of methane, 7.5 g  $CHCl_3$ /t chloromethanes production capacity.

(2) If the monthly average emission limit value for trichloromethane has been reached, the daily average emission shall not exceed the monthly average limit value by more than 2 times.

§ 6. Emission limit values for trichloroethene per unit of production

(1) The monthly average emission limit values for trichloroethene (trichloroethelene TRI,  $C_2HCl_3$ , CAS No. 79-01-6) per unit of production, upon the production of TRI and tetrachloroethene, is 2.5 g TRI/t combined TRI and tetrachloroethene production capacity.

(2) If the monthly average emission limit value for trichloroethene has been reached, the daily average emission shall not exceed the monthly average limit value by more than 2 times.

§ 7. Emission limit values for tetrachloroethene per unit of production

(1) The monthly average emission limit values for tetrachloroethene (tetrachloroethylene, perchloroethylene, PER,  $C_2Cl_4$ , CAS No. 127-18-4) per unit of production are as follows:

1) per combined TRI and PER production capacity or combined TETRA and PER production capacity, the established limit is 2.5 g PER/t TRI and PER production capacity (in the TRI PER process);

2) per combined TRI and PER production capacity or combined TETRA and PER production capacity, the established limit is 2.5 g PER/t carbon tetrachloride and PER production capacity (in the TETRA PER process).

(2) If the monthly average emission limit value for tetrachloroethene has been reached, the daily average emission shall not exceed the monthly average limit value by more than 2 times.

§ 8. Emission limit values for trichlorobenzene per unit of production

(1) The monthly average emission limit values for trichlorobenzene (TCB,  $C_6H_3Cl_3$ ) per unit of production are as follows:

1) upon the production of TCB by dechlorination of hexachlorocyclohexane or reprocessing from TCB, 10 g TCB/t TCB total production capacity;

2) taking into account the total production or processing capacity of mono- or dichlorobenzenes, 0.5 g TCB/t chlorobenzene production or processing capacity upon the chlorination of benzene.

(2) If the monthly average emission limit value for trichlorobenzene has been reached, the daily average emission shall not exceed the monthly average limit value by more than 2 times.

#### § 9. Emission limit values for hexachlorobenzene per unit of production

(1) The monthly average emission limit values for hexachlorobenzene (HCB, C<sub>6</sub>Cl<sub>6</sub>, CAS No. 118-74-1) per unit of production are as follows:

1) upon the production and processing of HCB, 10 g HCB/t HCB production capacity;

2) upon the production of PER and CCl<sub>4</sub> by perchlorination, 1.5 g HCB/t combined PER and tetrachloromethane (carbon tetrachloride) production capacity.

(2) If the monthly average emission limit value for hexachlorobenzene has been reached, the daily average emission shall not exceed the monthly average limit value by more than 2 times.

#### § 10. Emission limit values for 1,2-dichloroethene per unit of production

(1) The monthly average emission limit values for 1,2-dichloroethene (EDC, C<sub>2</sub>H<sub>4</sub>Cl<sub>2</sub>, CAS No. 107-06-2) per unit of production are as follows:

1) the limit value is applicable only with regard to the production of EDC, not with regard to its processing or use in the same place (plant), and is 2.5 g EDC/t EDC production;

2) taking into account all potential sources of EDC non-point pollution in a plant, the limit value is not applicable upon the use of EDC to produce ion exchangers, and is 5 g EDC/t EDC production, processing or utilisation capacity;

3) is applicable upon the production of ethylenediamine, bis(ethyl)polyamine, 1,1,1-trichloroethene and perchloroethene, and is 2.5 g EDC/t EDC upon processing for the production of other substances (other than chloroethene (vinyl chloride)).

(2) If the monthly average emission limit value for 1,2-dichloroethene has been reached, the daily average emission shall not exceed the monthly average limit values by more than 2 times.

#### § 11. Emission limit values for hexachlorocyclohexane per unit of production

(1) The monthly average emission limit values for hexachlorocyclohexane (HCH, C<sub>6</sub>H<sub>6</sub>Cl<sub>6</sub>, CAS No. 608-73-1) per unit of production are as follows:

1) for HCH production plants, 2 g HCH/t HCH produced (including lindane, CAS No. 58-89-9);

2) for lindane separation plants, 4 g HCH/t HCH processed;

3) for HCH production and lindane separation plants, 5 g HCH/t HCH processed.

(2) If the monthly average emission limit value for hexachlorocyclohexane has been reached, the daily average emission shall not exceed the monthly average limit values by more than 2 times.

#### § 12. Implementing provisions

This Regulation enters into force on 1 January 2004.

<sup>[1]</sup> RTL = *Riigi Teatja Lisa* = *Appendix to the State Gazette*

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<sup>[1]</sup> CAS No. – here and hereinafter *Chemical Abstracts Service* chemical registration number.

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