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Chapter A II D
1 July 2002

Technical regulation on
occupational health in ships

C H A P T E R I I

Chemical occupational health effects

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CHAPTER II

Chemical occupational health effects

Part D Breathing apparatus air

Regulation 1 Application

- 1 The provisions of this part shall apply to breathing air used when performing work on board ships. However, breathing air used for diving purposes shall be exempted.
- 2 Ship owners, employers, masters, supervisors and other persons working on board shall ensure that the provisions are complied with.

Regulation 2 Definitions

- 1 For the purposes of this part, breathing air shall mean the air that a person inhales when using an air-supplied breathing mask.

Regulation 3 Purity of breathing air

- 1 The composition of breathing air used at atmospheric pressure may not exceed the following values:
 - 500 ppm carbon dioxide (CO₂) or a maximum of the carbon dioxide that occurs in the surrounding fresh air,
 - 10 ppm carbon dioxide (CO),
 - 0.5 ppm nitrous fumes (NO+NO₂),
 - 0.3 mg/m³ oil particles,
 - 500 mg/m³ water (H₂O).
- 2 Pollution from plastic and decomposition products from plastic materials, dust and other solid particles and micro organisms as well as decomposition and residual products from these shall be avoided.

Regulation 4 Quality of breathing air

- 1 The temperature of breathing air at the air-supplied breathing mask should lie between 15 C and 25 C or, insofar as possible, be equivalent to that of the surroundings.
- 2 Air inlets for compressors used for the production of breathing air should be placed so that it is free of pollution from, for example, smoke, exhaust gases or harmful fumes/aerosols.
- 3 The supply of breathing air shall take place without any quality variations in terms of content and temperature. The supply shall be reliable and it shall be ensured that the breathing air is suitable for being inhaled from the distributive system at the outlet as such.
- 4 If the use of an air-supplied breathing mask causes physical or mental strains as a consequence of the nature of the work, conditions of temperature or the like, the employee's engagement in the work in question shall be limited, for example through special rest intervals during the daily work and the consumption of the necessary liquids. The work performed while wearing an

air-supplied breathing mask may not exceed six hours a day for each individual person and not four hours a day for young people below the age of 18.

- 5 At least once a year, an air analysis shall be carried out at the most remote outlet for breathing air. A copy of the analysis results shall be available on board and be accessible to those on board. The analysis shall at least cover the substances mentioned in regulation 3(1).