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**RELEVANCE OF HYGIENIC ASSESSMENT OF PRODUCTIVITY AND
EFFICIENCY OF INDUSTRIAL VENTILATION AT PAINT PRODUCTS
MANUFACTURING ENTERPRISE**

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Abstract: hygienic assessment of the adequacy of the designed ventilation system and its effectiveness to combat harmful factors of the labor process will allow to develop preventive measures aimed at improving working conditions at the enterprise for the production of paint and varnish products.

Key words: occupational health, enterprises for the production of paints and varnishes, industrial ventilation, productivity, efficiency, preventive measures.

Chemical industries are characterized by a high level of occupational risk due to exposure of workers to harmful chemicals, as a rule, in combination with other factors, including noise and unfavorable microclimate. In recent years, there has been an increase in small enterprises for the production of paint and varnish products, an increase in the production of various products of these enterprises, and an increase in the types of raw materials used for production due to the significant demand in the consumer market for this category of goods. The introduction of new high-performance equipment and automated technological processes at paint and varnish enterprises, the use of high temperatures and pressures in technologies, and the increase in the share of operator professions complicated the tasks of hygienic assessment and hygienic control of the air environment of production premises [1, p. 95]. This poses a number of hygienic problems. In this regard, there are tasks to develop a set of preventive measures aimed at reducing the content of chemicals in the air of the working zone, which requires the organization of a sound industrial ventilation system. Special attention should be paid to the hygienic assessment of the adequacy of the productivity and efficiency of the available industrial ventilation.

The paint industry produces a wide range of materials for protective and decorative coatings of various products, the properties of which depend on their components. Paint materials (varnishes, enamels), which include film-forming compounds, pigments, plasticizers, solvents and diluents, are toxic (hazardous) materials that can have harmful effects on the health of workers [5, p. 4014-4016]. Application of paint materials on the surface of articles is carried out by various methods. Of these, the most widespread in industry was the method of manual pneumatic spraying. Painting of articles by manual spraying methods is accompanied by contamination of the working room air with solvent vapors and paint aerosol. The greatest air pollution is observed when using the pneumatic spraying method (the average loss of paint material is 20-30%, and in some cases it reaches 50-70%) [2, p. 66-69]. The most harmful components of paint materials are organic solvents and diluents, individual pigments, plasticizers and some synthetic resins. The most important technical importance for characterizing the state of the air environment of the workshops of paint and varnish production is its contamination with vapors of aromatic hydrocarbons and organic solvents. Enamel workshops are constantly exposed to organic solvents in various combinations, the effects of which are not well understood [3].

Ventilation equipment is checked by measuring air exchange rate and air velocity in air ducts and ducts of ventilation system. Measurement of ventilation efficiency can come to numbers higher or lower than standard values. In both cases, the operation of the used equipment of the plenum or exhaust ventilation system is not effective enough [4, p. 119-131].

Thus, hygienic assessment and hygienic control of the state of the air of production premises for the production of paint products indicate the need to pay attention to the hygienic assessment of the adequacy of the designed ventilation system and its effectiveness to combat harmful factors of the labor process, the development of preventive measures aimed at improving working conditions at enterprises for the production of paint products.

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