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Environmental monitoring of the worksite in the manufacturing area of the drugs in the pharmaceutical company

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Purpose

Identify possible chemical factors of harmful effects at the production site of the enterprise and to propose methods of protection for employees

Tasks

- Determine the chemical factors of harmful effects on the health of employees at the production site of medicines of the company
- Highlight the possible impact of these factors on human health and the human body
- Determine their quantitative content in the work area
- Propose measures to prevent the impact of harmful factors on the health of employees

Analysis

The flushes of the substance B was taken for analysis using the method of spectrophotometry

The permissible quantitative content of substance is less than 0.14 mg/100 cm2.

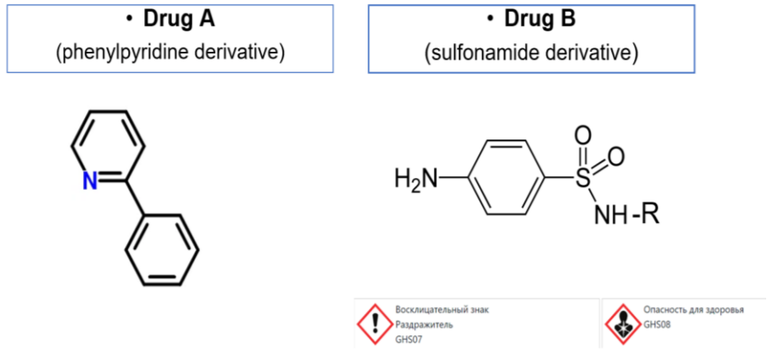
Due to the potential risk of toxic effects of this substance the stuff should take precautions

- All safety instructions must be read before use and followed
- Avoid inhaling dust
- Wash your hands thoroughly after work
- Do not touch the eyes
- Contaminated work clothes should not be removed from the workplace
- Use protective gloves/protective clothing/eye/face/hearing protection, etc.
- in case of contact with skin, rinse with plenty of water
- if inhaled, take the person out into the fresh air
- in case of contact with eyes, rinse gently with water for a few minutes
- in case of contact with the oral cavity, rinse the mouth
- if you have skin or eye irritation, consult a doctor immediately

We analyzed the presence and possible effects of a chemical factor in the workplace of a production site at a particular enterprise. The company's product portfolio is quite wide and includes medicines from different therapeutic groups.

Drug A does not have any toxic effect getting on the skin, mucous membranes and on the respiratory tract after inhaling.

Drug B may have a toxic effect on skin contact: it causes irritation, there is also a risk of allergic reactions. Besides, this substance can cause severe irritation of the mucous membrane if it contacts with eyes. Respiratory tract irritation may also occur while inhaling the substance.



Conclusions

The results of the analysis show that the content of the substance of the drug in the equipment after the completion of the production process remains within acceptable limits. It means that the risk of various body reactions upon contact with this substance is minimal. However, the stuff mustn’t neglect personal protective equipment and compliance with all necessary precautions.