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LOCALIZATION OF EMERGENCIES OF TOXIC LIQUID SPILL

Hazardous substance is a chemical substance that, directly or indirectly, can cause death, acute or chronic disease or poisoning. It is also harmful for the environment. Most hazardous substances are characterized by the duration of environmental contamination and the long-term effects of human and biosphere damage.

Localization of the chemical contamination zone is to stop the spread of toxic substances in the environment. It can be achieved by reducing the rate of evaporation by isolating the hazardous substance layer, reducing the concentration of hazardous substance in the secondary cloud with water curtains from sprayed

jets, neutralizing spillage. The most universal way to localize the spillage of toxic liquids is the use of foams. However, foams as a means of isolating toxic liquids have a significant disadvantage. They gradually break down, especially in contact with polar liquids. Thus, the solution to the problem of low efficiency of air-foam means of isolation of toxic liquid spills can be achieved by eliminating this shortcoming.

It is proposed to use fast-curing foams to eliminate this disadvantage of air-mechanical foams. It is recommended to use the gelation process in the system under study to ensure the curing process. Based on observations of the process of foam formation and hardening, the $\text{NH}_4\text{Cl} + \text{Na}_2\text{O} \cdot 2,5\text{SiO}_2$ system was selected, which provides foaming time from 30 to 60 s. We write about these problems in detail in our work [1].

Thus, we suggest to use fast - hardening foams of the developed structures for localization of spills of toxic liquids, the problem which is faced by emergency - rescue divisions.

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