

FUZZY ANALYSIS TO STUDY THE POLLUTION AND THE DISEASE CAUSED BY HAZARDOUS WASTE FROM TEXTILE INDUSTRY

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In this paper we study the diseases caused by hazardous waste from the textile industries. In this study we are not going to consider only the textile industry worker alone, but the public at large. The pollution and the disease is caused only to the people who live in the neighborhood of the textile industry and the notion of neighborhood and the various types of diseases suffered by them and the degrees by which they are affected happen to be uncertain, so we are justified in using fuzzy theory.

We concentrate only on the hazardous waste from textile industries. By the term Hazardous waste we mean the following. The Hazardous waste are wastes that, in sufficient quantities and concentrations pose a threat to human life, human health or the environment when improperly stored, transported, treated or disposed. In this paper we divide the hazardous wastes produced from textile industries into two types:

1. Hazardous waste, which are in particulate form which pollute the atmosphere causing harmful diseases to people.

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2. Harmful waste from the textile mills which are disposed in the soil and water.

Here we obtain the opinion of experts like doctors and people living in and around the textile industries and people who are victims due to hazardous waste. A linguistic opinion was sought and it was transformed into a fuzzy associative matrix (FAM). Thus by using FAM we have studied the effects of pollution by the textile industries and the diseases caused by the Hazardous waste.

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