

CHAPTER-3 HAZARDOUS WASTE MANAGEMENT

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Abstract

The rapid growth of human population, increased industrialization, urbanization, etc. increases the waste materials. A hazardous waste is a such waste found in solid form that may affect directly or indirectly to environment as well as contribute significantly to an increase in rate of mortality or poses serious irreversible or reversible illness or pose a potential hazard. Since the waste materials create many environmental problems including health hazards to all living organisms including human beings, or the environment when it is treated improperly, stored in unsuitable place, not transported through proper manner, disposed of in open place or otherwise managed improperly. The major characteristics of the hazardous waste are ignitability, corrosivity, reactivity and toxicity. The methodology for a comprehensive Hazardous waste management is presented in this chapter which gives an idea about the easy identification of hazardous waste and its management. It is, therefore highly essential to consider the hazardous waste management.

3.1 Introduction

A hazardous waste is a type of solid waste that may pose a threat to environment or significantly contribute to an increase pollution of biosphere as well as shows high rate in mortality or poses irreversible or reversible illness leads to a threat to human health or the environment when it is not treated in a proper way, stored in an open place, transported improperly or disposed of in open dumping place or otherwise managed improperly. The characteristics features of the hazardous waste (HW) are ignitability, corrosivity, reactivity and toxicity¹.