

## Analysis of Gas materials on Heat treated MSW

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### 열처리 된 MSW의 가스 물질 분석

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#### Abstract

Plastics that make our lives convenient, decommissioned, pestoforms, and so on are threatens our lives. In particular, the disposal method of urban garbage is to dispose of it as it is, or simply landfill or incineration. The amount of urban solid waste generated worldwide in 2016 was 2.01 billion tons, and it is expected to grow rapidly in the next 30 years to 3.4 billion tons per year due to rapid urbanization, population growth, and economic development. When treating MSW by heat on high temperature, it generates toxic meterial decomposing a part of monomer of polymer and additives, etc. There are reports of occurring disease such as asthma and contact dermatitis to workers exposed on this toxic environment long period. When raw meterials using on manufacturing and additionally produced material are classified as occupational substances, Safety and Health Actit forces management of that meterials. However materials not on the list of act are not regulated and only a piece of health advice is recommended even though MSDS warns dangerousness. This study measures and analyses the material which can be expose to workers on recycling waste MSW process in the case of treating MSW by heat.