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# **MAJOR INDUSTRIAL HAZARDS**

Compilation: Dr. Asit Patra, DMI - 2009

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## **Introduction**

Chemical industries are growing very fast. Major installations such as Gas processing complexes, Petroleum Refineries, Fertilizers Industries are processing thousands of tons of hazardous chemicals everyday. Need for a large inventory of flammable and /or toxic material arises to meet the manufacturing demand.

This rapid growth in the use of hazardous chemicals in industry and trade has brought about a very significant increase in the number of people, both workers and members of the general public, whose life could be endangered at any one time by an accident involving these chemicals.

The release of hazardous chemicals is inevitable irrespective of many safety precautions taken during design, construction, commissioning and normal operation of any chemical processing unit. It is therefore important, particularly for industries involving the storage and use of hazardous chemicals, to address both on-site and off-site safety when deciding on the safety measures to be taken.

## **Types of Major Industrial Hazards**

Major industrial hazards are generally associated with the potential for fire, explosion or dispersion of toxic chemicals and usually involve the accidentally release of material from containment. Accidents involving major hazards could include:

- Leakage of flammable material, mixing of material with air, formation of flammable vapor cloud to a source of ignition, leading to a fire or an explosion affecting the site and possibly a populated area.
- Leakage of toxic material, formation of a toxic vapor cloud and drifting the cloud, affecting directly the site and possibly populated area.

Depending upon the state of released chemical, cause and on its consequences, the major hazards in chemical process industry are classified as:

- **Fire**
- **Explosion**

# Major Chemical Hazards A Systematic Approach To Safety And Reliability In Industrial Operations

**A Gutmann**



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