C-8 SCIENCE WK-5

CHAPTER-3

SYNTHETIC FIBRES AND PLASTICS

**PLASTICS** 

Plastics are synthetic materials that can be moulded into a permanent shape.

These highly useful materials were developed during the last century. Plastics are cheap, light and strong. They can be moulded into different shapes- a property known as plasticity. They are not generally attacked by chemicals.

They are divided into THERMOPLASTICS AND THERMOSETTING PLASTICS.

Thermoplastics retain their plasticity even after repeated heating and cooling. So they can be moulded over and over again. But Thermosetting plastics, once set after being melted, cannot be moulded again.

## HAZARDS RELATED TO PLASTICS

 They are nonbiodegradable, i.e, they are not broken down into simpler, harmless substances in the environment. So, with the increasing use of plastics, the volume of nondegradable garbage is increasing every day.

- Use and throw plastic objects like carrybags and bottles block drains and sewers. Carrybags also harm animals if they swallow them while grazing.
- When burnt, they produce harmful gases.
- Most chemicals used for preparing the monomers which form plastics can cause cancer among the workers.

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