Topics covered
Organochlorine Insecticides
Bio Concentration Factor (BCF) & Biomagnification
Toxic Effects –Dose-response relationship
The Distribution of Environmental Pollutants
Organophosphate and Carbamate Insecticides
Herbicide –triazines, 2,4-D, Agent Orange

Know the Common Pesticides

Risk Assessment

The highest dose at which no observable effects level is called NOEL [RfD (or ADI) = NOEL/100]

The dose that proves to be lethal to 50% of the population of test animals is called LD$_{50}$ value

Fugacity of a substance is proportional to concentration in a given phase

\[ f = \frac{n}{\sum_{x} V_x} \]

Solve: A dose of 0.2 micrograms of toxin is sufficient to kill a mouse of 400 g. For a person (80kg weight) what would be considered as a fatal dose in a week?