# Preview from Notesale.co.uk Preview from Notesale.co.uk

### Synthetic pesticides

- Include
- -organophosphataesale.co.uk
  - -Carbamates 5 of 42
    -Pyrethroids

    - -biopesticides.
- The organophosphate and carbamate pesticides affect the nervous system
- As a group, the organophosphate and carbamate pesticides are probably the most widely used insecticides, although many are being restricted because of their toxicity.

## Why Add Inert Ingracients? 1. For ease of pesticide product handling

- 2. Inerts make measuring and mixing pesticides easier
- 3. To provide for safety
- 4. Makes the Ai work better
  - Better penetration
  - More selectivity
  - Increased effectiveness



## Adjuvant

• The term adjuvant basically means additive

- Formulation readitive of 42

- Additive which is sold separately to mix with the product when tank mixing
- Labels will often recommend to add an adjuvant
- Include surfactants, spreaders, wetting agents, colorant dyes, buffers, antifoaming agents, safeners, etc.

#### **Emulsifiable Concentrate (E or EC)**

- Advantages from Notesale.co.uk
  Easy teviendle age 25 of 42
  Little agitation
- Relatively easy on equipment
- Leaves little residue
- Disadvantages
- Phytotoxic plant injury
- Easily absorbed by the skin
- Flammable
- Deterioration of rubber and plastic hoses

- Water dispersible granules (Dry flowables)
   Water dispersible granules (WDG) are also known as Dry flowables (DE) of 42
   The dry powder is aggregated into granular
  - particles with inert fillers such as clay.
- During application, the granules are suspended in water to form a thick suspension for spraying
- Advantages over wettable powders:
  - During the mixing process, dry flowables pour more easily from the container and, because of their larger particle size, reduce inhalation hazard to the applicator.

- Adjuvants work at three levels

  1. Modifying how chemical components or products interact in the spray tank
- The two most common at this level are compatibility agents and drift retardants.
- Compatibility agents are usually surfactants that enable active and inert materials to coexist in a stable solution or suspension.
- These products are normally factory fitted into the formulation.