

## **PESTICIDE CASSIFICATION**

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### **CLASSIFICATION OF PESTICIDES**

According to pest they control: (include photos of insects, nematodes weeds etc and explain what each define each category)

Herbicides used for killing weeds or herbs. e.g, Gramoxone

- Insecticides- used for killing insects. e.g. Sevin
- Fungicides-used for killing fungi. e.g. mankocide
- Nematicides- used for killing nematode e.g. Furadan
- Rodenticides- use for killing rodents (rat, mice) e.g. Klerat
- Acaricides- used for killing aracnids (mites) e.g new meetin
- Molluscocides-used for killing Molluscs (snails, slugs) e.g. Slugit

According to mode of action:

For Insecticides

- Contact kill only insects they are sprayed or dusted onto. e.g. .....
- Stomach acting- kill only insects that eat plant parts sprayed with insecticide e.g. Dipel
- Systemic This type of insecticide is transported within the plant and kill insects when they suck sap or eat parts of the plant e.g .....
- Fumigant- kill insects that inhale toxic vapours of the chemical e.g. phostoxin

#### According to mode of action

For Fungicides

- Contact (Protectant)- kill only fungi sprayed or dusted with the fungicide, or fungal spores, which come into contact with the fungicide. e.g. Kocide
- Systemic (Eradicant)- This type of fungicides is transported within the plant and kills fungi growing within tissue of the plant.

#### According to mode of action For Herbicides

- **Pre-emergence** a herbicide applied to the soil during the period after planting and before germination (usually 1-5 days after land preparation). e.gGesaprim
- Selective a herbicide that kills small weeds and seeds but leave the crop unharmed e.g Gesagard. N.B selective herbicides are specific for certain crops.
- **Post-emergence** a herbicide applied to growing weeds after crop emergence or transplanting e.g Fusilade, Gramoxone, Round-up.

**Contact-** a herbicide that kill only soft green parts of weeds sprayed with the herbicide e.g Gramoxone.

Systemic- a herbicide that is absorbed into the plant after spraying, and is transported to other plant parts where it causes death e.g Round-up.

Non-selective- a herbicide that kills all plants sprayed. e.g Round-up.

#### **According to formulation**

- Dust- pesticide prepared as dry fine particles e.g Sevin 85 WP
- Granules (G)- Pesticides prepared as large dry particles e.g Furadan.
- Wettable Powders (WP)- consist of finely divided particles with other substances that enable the powder to be mixed with water to form a stable suspension e.g. kocide.
- Emulsifiable concentrate (EC)- a pesticide dissolved in an organic solvent to which an emulsifier is added to enable proper mixing.

- Dry Bait-pesticide mixed with edible products to form dry pellets, which are attractive to pests. e.g Klerat.
- Smokes- the pesticide is mixed with an oxidant and combustible material, which generates hot gas e.g, mosquito coil.

•Others

According to active compound (active ingredient)

- Chlorinated hydrocarbon e.g Kelthane
- Organphosphates e.g Basudin
- Carbamate e.g Sevin
- Pyrethroids e.g Decis
- Others

#### **According to persistency**

- Persistent a pesticide that remains in the environment for a long time e.g Hyvar-x
- Non-persistent- a pesticide that remains in the environment for a very short time. e.g Dipel

# THANK YOU