

*we grow through...
partnerships*



ORBIT AGRO CHEMICAL INDUSTRIES LTD.

**Fungicides | Insecticides | Herbicides | Bio Stimulants
Fertilizers | Knapsack Sprayers | Soil Conditioners**



INSECTICIDES AND MITICIDES



Alpha Cymba[®] 10EC

Insecticide Alpha-Cypermethrin 100g/L

Classification: Pyrethroid

Active Ingredient: Alpha-Cypermethrin 100g/l

Description: A broad spectrum pyrethroid insecticide with a rapid knock-down effect, low dosage and high mortality rate.

Target pest: aphids, cutworms, thrips, whiteflies, caterpillars, borers, leaf miners

Rates: 5ml/20litre or 250ml/Ha

Pre-harvest Interval: 1-3 days in vegetables

Mode of Action: Non-systemic insecticide with contact and stomach action. The pyrethroid has a quick knock-down effect which paralyses the central and peripheral nervous system of insect pest at very low application rate/dosage.

Benefits:

1. Broad spectrum activity
2. Effective at considerably lower application rate/dosage
3. Fast acting with a knock-down effect
4. Low product residues on crops due to low application rates



Halothrin[®] 25EC

Insecticide Emulsifiable Concentrate

Classification: Pyrethroid

Active Ingredient: Lambda-Cyhalothrin 25g/l

Description: A fast and rapid knock-down insecticide with long residual activity and short pre-harvest interval.

Target pest: Whiteflies, Thrips, Aphids, Caterpillars, Bollworms, Cutworms, Leaf miners, Diamond Back Moth

Application rates: 15ml/20litre or 750ml/Ha

Pre-harvest Interval: 3 days

Mode of action: A non-systemic insecticide with contact, residual and stomach action. It has repellent properties and acts on the central and peripheral nervous system of the pest at low application rate.

Benefits:

1. Has fast acting action
2. Has anti-feeding/repellent properties
3. Has rapid penetration into waxy cuticle of plant
4. It reduces virus transmission
5. Broad spectrum of activity



Classification: Organophosphate

Active Ingredient: Chlorpyrifos 480g/l

Description: A broad spectrum non-systemic insecticide with an outstanding and versatile usage in a wide range of crops for the control of various pests and ant.

Target pest: Thrips, aphids, whiteflies, scales, cutworms, armyworms, bollworms, mealy bugs, ants, termites, antestia bugs

Application rates: 30-40ml/20litre or 1.5-2.0L/Ha

Pre-harvest Interval: 14 days Re-entry Interval: 24 hours

Mode of action: Non-systematic insecticide with contact, stomach and respiratory action. Has cholinesterase inhibitor.

Benefits:

1. Has a short persistence in the environment
2. Flexibility of use in multi delivery system
3. Longer protection of crops
4. Broad spectrum
5. Triple killing action (vapour, contact and stomach)

CHORDATA[®] 10:2EC



Active ingredient: Abamectin 20g/l + Pyridaben 100g/l

Description: Non-systemic acaricide and miticide for the control of mites in vegetables and ornamentals.

Target pest: spidermites, thrips, aphids, leafminers

Application rates: 10ml/20litre or 375ml/Ha

Mode of action: Abamectin has contact and stomach action which acts by inhibiting the nerve impulse of insect leading to paralysis and death. Pyridaben is active against all developing stages especially the larval and nymph stages when the pest is most destructive. Re-application should be done after 7-10 days

Benefits:

1. Has a rapid knockdown and long residual activity giving better crop yield and quality
2. Highly effective at low application rate therefore less load to the environment
3. Has translaminar activity hence more reliable control

RAJPUT[®] 40EC



Active ingredient: Abamectin 10g/l + Acetamiprid 30g/l

Description: A broad spectrum acaricide and insecticide for control of pests in vegetables and flowers.

Target pest: spidermites, whiteflies, leafminer (Tuta absoluta), aphids, thrips, squash beetles

Application rates: 10ml/20litre or 500ml/Ha

Pre-harvest Interval: 7 days for vegetable REI: 12 hours

Mode of action: Acetamiprid is systemic while abamectin has contact and stomach action. The product works by interfering with the nervous system of the insect leading to paralysis and eventually death.

Benefits:

1. Broad spectrum
2. Long lasting effect due to long residual effect
3. Highly effective with low application rate
4. Has translaminar activity hence more reliable control



Hattrick^{25EC}

Insecticide

Emulsifiable Concentrate

Classification: Organophosphate

Active ingredient: Oxydemeton-methyl 250g/l

Target pest: Thrips, spidermites, scales, Russian aphids, whiteflies, termites, ants, leafminers, beetles

Application rates: 1ml per every litre, 20ml/20lts

Mode of action: A broad spectrum systemic insecticide with contact and stomach action. It has a quick knockdown effect and acts by inhibiting cholinesterase in the insect pest.

Benefits:

1. Broad spectrum
2. Fast acting action
3. Long residual control
4. Uses several routes of entry to attack the pest

FUNGICIDES



"PENNCOZEB" 80% WP

Classification: Dithiocarbamate

Active ingredient: Mancozeb 800g/kg

Description: High quality preventive fungicide with broad spectrum for the control of fungal diseases in various crops like vegetables, field crops, fruits and flowers/ornamentals.

Target pest: Late blight, early blight, anthracnose, powdery mildew, downy mildew, leafspot, damping off

Application rates: 50gms/20litre or 2kg/Ha

Pre-harvest Interval: 7 days in vegetables

Mode of action: Contact fungicide with protective action which should be applied prior to disease set. It has non-specific thiol reactant with inhibiting respiration.

Benefits:

1. Has no resistance
2. Broad spectrum fungicide
3. Has high level of control before disease pressure



Devisulphur^{80WP}

Classification: multi-site inorganic

Active ingredient: Sulphur 800g/kg

Description: A premium sulphur fungicide and miticide with preventive action.

Target pest: Powdery mildew, mites, rust, anthracnose, angular leafspots

Application rates: 30-40gms/20litre or 2.0kg/Ha

Pre-harvest Interval: 0 days in open field and 3 days in greenhouse

Mode of action: It acts as contact and through vapour action. Should be applied before disease/when disease or mite first appears and repeated 7-10 days later.

Benefits:

1. Easy to mix and spray
2. Has low risk of phytotoxicity
3. Has excellent efficacy

SHERRIF^{75WP} (Carbendazim + mancozeb)



Active ingredient: Carbendazim 120g/kg + Mancozeb 630g/kg

Description: A broad spectrum systemic and contact fungicide which has both preventive and curative mode of action.

Target pest: Rice blast, damping off, bean rust, anthracnose, angular leafspot, fusarium wilt, root rot, blights

Application rates: 20-25gms/20litre or 1.0-1.25kg/Ha

Mode of action: Mancozeb remains on the plant surface and acts by contact action. It inactivates fungi using multisites approach protecting plant from fungal diseases attack. Carbendazim which is systemic and has curative and protective activity properties inhibits the development of fungal germ tube and growth of mycelia.

Benefits:

1. Has various mode of application
2. Has excellent protective and curative activity
3. Has fast acting action

MOSTHANE⁸⁰



Classification: Dithiocarbamate

Active ingredient: Mancozeb 800g/kg

Description: High quality preventive fungicide that provides broad spectrum activity and has no disease resistance problems.

Target pest: Late blight, early blight, anthracnose, angular leafspot, downy mildew, powdery mildew, damping off

Application rates: 50gms/20litre or 2kg/Ha

Pre-harvest Interval: 7 days in vegetables

Mode of action: Contact fungicide with protective action which should be applied prior to disease set. It has non-specific thiol reactant with inhibiting respiration.

Benefits:

1. High level of control before disease pressure
2. Has fine texture therefore readily spreads on leaf surface when applied for effective control of disease.
3. It does not accumulate in the environment.



ZYBAN^{500 SC}

Classification: Benzimidazole

Active ingredient: Carbendazim 500g/l

Description: Systemic fungicide with protective and curative action on disease.

Target pest: Powdery mildew, botrytis, leafspot, anthracnose, root rot, rice blast, sheath blight, rust, fusarium wilt.

Application rates: 15-20ml/20litres or 0.75litre-1.0litre/Ha.

Mode of action: Has protective and curative action which inhibits the germination of fungal spores and growth of mycelia. It is absorbed through green tissue of foliage part and roots. Application should be repeated after 7-14 days interval.

Benefits:

1. Readily absorbed by plants when applied.
2. Has excellent protective and curative activity
3. Has various mode of application.



Active ingredient: Cymoxanil 50g/kg + Mancozeb 680g/kg

Description: A broad spectrum foliar fungicide with systemic and contact properties for curative and preventive control of fungal diseases in potatoes, tomatoes, grapes, cucurbits, onions, chives, garlic and roses.

Target pest: late blight, downy mildew, early blight, damping off

Application rates: 30gms/20litre or 1.5kg/Ha

Pre-harvest interval: 10 days

Mode of action: Has contact and local systemic activity; cymoxanil also inhibits sporulation. Mancozeb gives contact, residual and protective activity. Both have protective and curative action.

Benefits:

1. Has a quick disintegration ability
2. Has uniform dispersion when mixing
3. Has high suspension rate and less dust
4. Has increased efficacy on disease control for better results
5. Broad spectrum fungicide with no resistance



Samurai 72WP



Active ingredient: Metalaxyl 80g/kg + Mancozeb 640g/kg

Description: A systematic and contact broad spectrum fungicide with protective and curative actions.

Target pest: Early blight, late blight, downy mildew, damping off

Application rates: 50gms/20litres or 2.0kg/Ha

Mode of action: Samurai 72WP has both protective and curative properties. It should be applied prior to disease onset or immediately after disease infection period and repeated 10-14days interval.

Benefits:

1. Has excellent protective and curative activity
2. Has rainfast activity
3. Has low risk of resistance due to multisite mode of action

Vidalia 69WP



Active ingredient: Mancozeb 600g/kg + Dimethomorph 90g/kg

Description: A systemic and protective fungicide for the control of fungal diseases in tomato, potato, onion and rose.

Target pest: Early blight, late blight, downy mildew

Application rates: Vegetables 50gms/20litre or 2.5kg/Ha;

Roses 30-40gms/20 litre or 1.5-2kg/Ha

Pre-harvest interval: 3 days

Mode of action: Has systemic and protective properties; spray should commence as soon as weather condition is favourable for disease infection. Good spray coverage of the foliage is essential and it should be repeated 7-14 days depending on the degree of disease infection.

Benefits:

1. Has translaminar activity due to dimethomorph
2. High level of control before disease pressure

X-Spore 43SC



Classification: Triazole

Active ingredient: Tebuconazole 430g/l

Description: Systematic triazole fungicide with both preventive and curative actions for the control of fungal diseases in crops.

Target pest: Rust, anthracnose and leafspot on French bean; Early blight on tomato; Leaf rust, stem rust, stripe rust, yellow leafspot on wheat; Rust & purple blotch on onion and rust in coffee

Application rates: 10ml/20litre or 500ml/Ha on vegetables

Pre-harvest interval: 7 days

Mode of action: It is rapidly absorbed into the vegetative parts of the plant and translocated acropetally. Should be applied when disease signs are observed or when disease is actively establishing on the crop.

Benefits:

1. Broad spectrum fungicide
2. Has both protective, curative and eradicator action towards disease.
3. Has good plant compatibility in most crops with any formulation

HERBICIDES



Glyweed 41SL

(HERBICIDE)

Classification: glycine derivative

Active ingredient: Glyphosate 360gms/l

Description: This is a systemic, non-selective herbicide for the control of grasses, sedges and broad leaved weeds.

Depending on the type of crop, Glyweed can be used as pre-plant or post plant. Care should be taken to avoid contact with a plant if used as a post-plant application. Glyweed is an important tool in zero tillage.

Application rates: 135ml/20 litre or 2litre/Ha

Mode of action: Glyphosate is rapidly absorbed through foliage and green stems and translocated to the roots, stolons, tubers and rhizomes. This inhibits biosynthesis of the essential amino acids needed for protein synthesis, which is crucial for growth and survival of weeds.

Benefits:

1. Inactivated on contact with soil
2. Has a rapid translocation to roots, rhizomes, tubers and stolons
3. Has a broad spectrum activity

ORBIT® PREMIUM SPRAYERS



KNAPSACK SPRAYERS

Description: Organophosphate

A premium, powerful and high pressure pump, with a fully internal pump mechanism that keeps the spray solution off operator.

It's built to withstand day today farm operations.

Benefits:

1. High pressure piston pump
2. Light weight with trigger operated on/off on the handle
3. Left/right operations
4. Easy to adjust carrying straps
5. Internal mechanical agitator for constant mixing or spray solution
6. Ergonomic designed for comfort and to avoid back strains
7. High density polyethylene UV resistant tank

BIO STIMULANT



Pronto®

Amino acid based bio stimulant

Description: Amino acid biostimulant that combines a nutritional complement with complex of amino acids that enables cell formation and enhance metabolism in plants making them healthy. Can be used in all types of crops; vegetables, flowers, coffee, fruit trees, pineapples, potatoes, maize, cereals, turf grass, cotton, ornamentals.

Application rates: 20ml/20L: 1L/ha

Note: Pronto can be applied in all stages of crops life cycle.

Benefits:

1. Helps plants withstand stress conditions like drought, frost and insect attack by improving immunity.
2. Enhance better pollination and reduces flower and fruit drop.



BLOSSOM_{EC}

Description: A unique composition of nitrogen, proteins, zinc, Boron and vitamins

Crops: Tomatoes, Coffee, rice, Flowers, Chilly e.g. hoho, Seedlings, Cuttings, Wheat, Melons, Fruit trees, Squash, Cucumbers

Application rates: 2ml per every litre of water.

Benefits:

1. Increased branches and tillers
2. Influence the biochemical pathway to the plant to uptake more nutrients from soil.
3. Enhanced chlorophyll synthesis.
4. More flowers and fewer flower shed
5. Prolonged flowering and fruiting period resulting to higher yields

SOIL CONDITIONER



HUMIGOLD® (Humic Acid/ Fluvic Acid)

Description: A bio organic humic granules that mix and blend well with fertilizer/manure for a rich humic based soil.

Target: Horticulture crops, cereals, field crops, lawns, flowers, kitchen gardens

Application rates: Fertilizer blend 1-2 kg/50kg bag of fertilizers D.A.P, T.S.P, M.A.P, C.A.N etc.

Benefits:

1. Reduces toxic by buffering against excessive elements in the soil.
2. Reduces nutrient lock up
3. Promotes root development
4. Improves soil structure

FOLIAR FERTILIZERS



MORGRO® Multipurpose

Composition: N.P.K- 14.10.8 + TE + Amino Acids

Description: A liquid foliar and plant booster that is rapidly absorbed through the leaves and provides plants with essential plant nutrients required for growth.

Can be used in all types of crops; vegetables, flowers, coffee, fruit trees, pineapples, potatoes, maize, cereals.

Rates:

Vegetables: 50ml/20L: 2.5L/ha

Cereals (Maize, Wheat): 50ml/20L:2.5/ha

Fruits Tree: 80ml/20L:4.0L/ha

Benefits:

1. Quick crop response, particularly under stressful conditions
2. Readily absorbed by plant leaf, shoot, stem and root tissue.

WOPRO- FERT

100% water soluble fertiliser.

Description: Iron chelate that can be used as foliar feed and in all types of fertigation system. Compactable with the majority pesticides product.

Fe-DTPA 11.5%- Iron chelate which is stable in pH levels of up to 7.0, and is not as susceptible to iron replacement by calcium.

Fe-EDDHA 6%- Chelate is stable at pH levels as high as 11.0.

Target Crops: Horticulture crops, field crops, cereals, turf grass, flowers and fruit crops

Application rates:

1-3g/L of irrigation water

1kg for 200L/ha for foliar treatment

Benefits:

1. Correction of iron deficiency
2. Synthesis of chlorophyll in crops
3. Improved crop yield



Velji®



Root Energizer: N.P.K. 12:40:15 MgO 0.16% - Micros; A high PHOSPHOROUS fully water soluble foliar fertilizer with 100% EDTA chelated micro nutrient formulated for super root initiation and development in germinating / transplants seedlings. It's readily absorbed and translocated within the plants

Stimulates rooting and plant initiation

Leaf Energizer: N.P.K. 27:11:9 MgO 0.16% - Micros; A high nitrogen fully water soluble foliar fertilizer with 100% EDTA chelated micro nutrient formulated for vegetative growth period.

Boosts productivity of green tissues

Fruit & Flower Energizer: N.P.K. 15:5:35 MgO 0.16% - Micros; A high POTASSIUM fully water soluble foliar fertilizer with 100% EDTA chelated micro nutrient specifically formulated for plants during flowering and fruiting stages for even ripening, proper fruit size and colour.

Accelerates fruit formation, ripening and colour

Complete Crop Energizer Triple 19: N.P.K. 19:19:19 MgO 0.16% - Micros; A well balanced fully water soluble fertilizer that induces faster growth of crops at any stage of its life cycle, assists crops recovery from unfavourable conditions as well as preventing deficiencies.

For general use to improve nutrition status of all crops

Benefits and Rate Of use;

- Suitable for Green House Nutritional programme and outdoor/field situations
- Guarantees precise formulation and prevents error
- Gives immediate results
- Can be tank mixed with pesticides

A general recommendation of 2 – 4kg/ha or for knapsack sprayers 30 – 60gm.



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