

WE CARE.
WE PROTECT.



About Coromandel

Coromandel International Limited, India's second largest Phosphatic fertilizer player, is in the business segments of Fertilizers, Speciality Nutrients, Crop Protection and Retail. The Company manufactures a wide range of fertilizers and markets around 4.5 million tons making it a leader in its addressable markets.

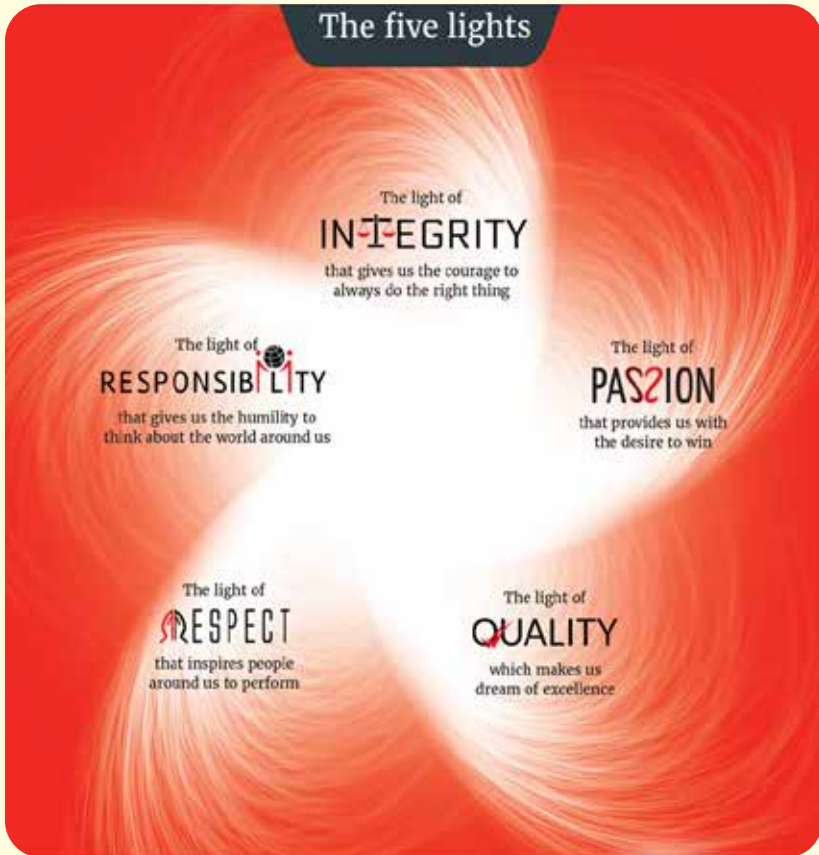
In its endeavour to be a complete plant nutrition solutions Company, Coromandel has also introduced a range of Speciality Nutrient products including Organic Fertilizers. The Crop Protection business produces Insecticide, Fungicide, Herbicide and PGRs and markets these products in India and across the globe. Coromandel is the second largest manufacturer of Malathion and only the second manufacturer of Phenthoate. Coromandel has also ventured into the retail business setting up around 800 rural retail centers in the states of Andhra Pradesh, Telangana, Karnataka and Maharashtra.

The Company clocked a turnover of ₹14,205 Crores during FY 2020-21. It was ranked among the top 20 best companies to work for by Business Today and was also voted as one of the ten greenest companies in India by TERI, reflecting its commitment to the environment and society. Coromandel is a part of the INR 381 Billion (38,105 Crores) Murugappa group.

About Murugappa

Founded in 1900, the INR 381 Billion (38,105 Crores) Murugappa Group is one of India's leading business conglomerates. The Group has 28 businesses including nine listed Companies traded in NSE & BSE. Headquartered in Chennai, the major Companies of the Group include Carborundum Universal Ltd., Chola Mandalam Financial Holdings Ltd., Chola Mandalam Investment and Finance Company Ltd., Chola Mandalam MS General Insurance Company Ltd., Coromandel International Ltd., Coromandel Engineering Company Ltd., E.I.D. Parry (India) Ltd., Parry Agro Industries Ltd., Shanthi Gears Ltd., Tube Investments of India Ltd., and Wendt (India) Ltd. Market leaders in served segments including Abrasives, Auto Components, Transmission systems, Cycles, Sugar, Farm Inputs, Fertilisers, Plantations, Bio-products and Nutraceuticals, the Group has forged strong alliances with leading international companies such as Groupe Chimique Tunisien, Foskor, Mitsui Sumitomo, Morgan Advanced Materials, Sociedad Quimica y Minera de Chile (SQM), Yanmar & Co. and Compagnie Des Phosphat De Gafsa (CPG). The Group has a wide geographical presence all over India and spanning 6 continents. Renowned brands like BSA, Hercules, Montra, Mach City, Ballmaster, Ajax, Parry's, Chola, Gromor, Shanthi Gears and Paramfos are from the Murugappa stable. The Group fosters an environment of professionalism and has a workforce of over 51,000 employees.

VALUES AND BELIEF:



The Spirit of the Murugappa Group

These five lights guide us as we navigate
through professional and personal decisions.

Crop Protection Business

The Crop Protection business produces insecticides, fungicides, herbicides and plant growth regulators and markets these products in India and abroad. Coromandel is the second largest manufacturer of Malathion and is the major manufacturer of Phenthoate in Asia. By taking over M/s Sabero Organics in 2011, Coromandel has added many technicals to its range of products and has climbed to a coveted position among top 5 companies in Indian Pesticide Industry. The company and its subsidiary Sabero Organics Ltd. has global registrations in 62 countries and has strong presence in export markets of Latin America, SE Asia & Africa.

To cater to the farmer's needs, the Company is offering more than 50 crop protection products for protecting diverse crops across India. Marketed under Hexamar & Parry brands, the Coromandel Crop Protection brands have been synchronized to emerge under a stronger brand "GROMOR SURAKSHA". This vast product range under the flagship brand "GROMOR SURAKSHA" touches millions of farmers every day helping them address their crop protection related problems.



Disclaimer

- 1) Strictly for internal use by employees of Coromandel International Limited, Secunderabad only.
- 2) Since product usage is beyond our control, we are unable to assure anything other than quality of the product.
- 3) Recommendation given in the catalogue is based on our internal field, apart from label clearance/approved crops and as such has no legal bearings.

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WE CARE. WE PROTECT.



Coromandel International Limited's Crop Protection division has been a pioneer in Crop Protection solutions for over three decades. With unwavering focus on R&D, new technology and environment-friendly solutions, our products protect with care.

- | 5th largest in India
- | 1000+ product registrations globally
- | 49% international sales
- | Manufacturing capacity of 80,000+ tonnes
- | Strategic collaborations with global players
- | A robust sales and marketing team



Insecticides & Acaricides





AJANTA

(Profenofos 50% EC)

Specifications:

- Ajanta controls both boll worms and sucking pests at the same time
- It is a broad-spectrum insecticide having acaricidal effect also
- It has excellent trans-laminar property, when sprayed on the upper leaf, it immediately percolates down to lower surface
- It is absorbed readily into plant cells thus not affected by rainfall
- It is a wide-spectrum insecticide with easy bio-degradation
- It acts as a cholinesterase inhibitor

Chemical Group: Organophosphate group of insecticide

Mode of Action: Non systemic, contact, stomach and ovicidal action

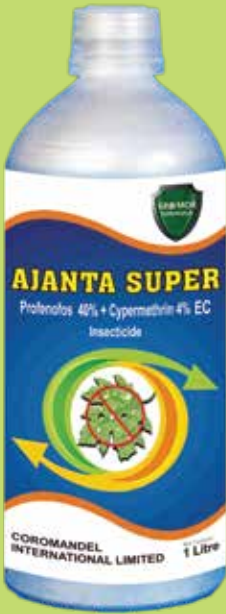
Compatibility: It is a widely compatible "tank mix partner" for most pest complexes

Phytotoxicity: Slight reddening of cotton may occur when it is sprayed more than the recommended dose

Availability: Ajanta is available in 100 ml, 250 ml, 500 ml, 1 litre and 5 litres pack

Insecticide

Crop	Pest	Doses (ml/ acre)
Cotton*	Bollworm Complex	600-800
Cotton	Aphids,Thrips, Jassids, Whiteflies	400
Soybean	Semilooper, Girdle Beetle	400



AJANTA SUPER

(Profenofos 40% EC + Cypermethrin 4% EC)

Specifications:

- It is a foliar insecticide with acaricidal properties for use in cotton
- Ajanta Super is synergistic in activity especially in situations where some resistance to organophosphate and/or synthetic pyrethroids, insects have developed
- It has excellent translaminar effect and is readily absorbed in plant cells thus not affected by rainfall
- The combined spectrum of activity covers all major pests in cotton and has a wide spectrum in other crops

Chemical Group: Organophosphate + Synthetic pyrethroid group of insecticide

Mode of Action: Contact & stomach action

Compatibility: It is compatible with other insecticides and fungicides

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: Ajanta Super is available in 100 ml, 250 ml, 500 ml, 1 litre and 5 litres pack

Insecticide

Crop	Pest	Doses (ml/ acre)
Cotton	Bollworm Complex	400-600

ASTRA

(Pymetrozine 50% WG)



Specifications:

- Astra has unique mode of action against resistant BPH
- Astra has fast action that stops feeding and causes paralysis of hind legs
- Astra prevents egg-laying capability of hoppers
- Astra protects plant at critical reproductive stage by improving plant health and leading to better yield
- Astra has systemic and translaminar movement giving full protection to the crop
- Astra exhibits high rain fastness
- Astra is environment-friendly

Chemical Group: Insecticide belonging to Pyridine azomethine class

Mode of Action: Selective feeding blocker with contact and systemic action.

Compatibility: It is compatible with all the available insecticides and fungicides in the market except those, which are highly acidic or alkaline in nature

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: Astra is available in 120 g, 250 g, 500 g & 1 kg packaging

Insecticide

Crop	Pest	Doses (g/acre)
Rice	Brown Plant Hopper (BPH), White Backed Plant Hopper (WBPH)	120



BENZER

(Emamectin Benzoate 5% SG)

Specifications:

- It is a larvicide having anti - feedent action
- Benzer protects plants from feeding damage within few hours of application
- Controls range of larval instars by contact activity
- Long residual ingestion activity
- It is rapidly absorbed into foliage and has translaminar action
- It is a naturally derived product that does not harm the beneficial insects

Chemical Group: Avermectin group of insecticide

Mode of action: Non-systemic, penetration by translaminar movement

Compatibility: It is compatible with all insecticides and fungicides except highly alkaline and acidic nature chemicals

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: Benzer is available in 50 g, 100 g, 250 g & 500 g packing

Insecticide & Acaricide

Crop	Pest	Doses (g/acre)
Cotton	Bollworms	76-88
Okra	Fruit & Shoot Borer	54-68
Cabbage	DBM	60-80
Chilli	Fruit Borer, Thrips, Mites	80
Brinjal	Fruit & Shoot Borer	80
Red Gram	Pod Borer	88
Grape	Thrips	88
Tea	Tea Looper	80



CATCHH

(Chlorpyrifos 50% + Cypermethrin 5% EC)

Specifications:

- Catchh is a combination of chlorpyrifos and cypermethrin
- It has quick knock down action against targeted pests
- It is a broad-spectrum insecticide
- It affects both the axonic and synaptic transmission of the nerve impulses in the insect nervous system
- It shows repellent properties due to fumigant action

Chemical Group: Organophosphate + Synthetic Pyrethroid group of insecticide

Mode of Action: Contact & stomach poison

Compatibility: It is compatible with all the available insecticides and fungicides in the market except those which are highly acidic or alkaline in nature

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: Catchh is available in 100 ml, 250 ml, 500 ml, 1 litre & 5 litres pack

Insecticide

Crop	Pest	Doses (ml/acre)
Cotton	Aphid, Jassids, Thrips, Whitefly, Spodoptera Litura, Spotted Bollworm, Pink Bollworm, American Bollworm,	400
Paddy	Stem Borer, Leaf Folder	250-300



CYPERKILL

(Cypermethrin 25% EC)

Specifications:

- It has strong contact action with quick knock-down effect
- It is a broad-spectrum insecticide which controls various insects on different crops
- It gives particularly good and reliable control of a range of lepidopteran pests
- It is relatively stable in sunlight and resistant to washing off by rain

Chemical Group: Synthetic pyrethroid group of insecticide

Mode of Action: Non-systemic insecticide with contact & stomach action

Compatibility: It is compatible with all the available insecticides and fungicides in the market except those which are highly acidic or alkaline in nature

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: Cyperkill is available in 100 ml, 250 ml, 500 ml, 1 litre & 5 litres packaging

Insecticide

Crop	Pest	Doses (ml/acre)
Cotton	Bollworms	64-112
	Thrips & Jassids	32-48
Okra	Shoot & Fruit Borer, Jassids	60- 80
Brinjal	Shoot & Fruit Borer, Jassids, Epilachna Grub Hadda Beetle	60- 80



CYTHION

(Malathion 50% EC)

Specifications:

- It controls household insects
- Non-systemic, contact Insecticide & Acaricide
- It acts as insecticide and acaricide
- Used extensively in public health programmes
- It effectively controls ectoparasites of cattle, poultry and human body
- It controls, holds insects and stored-grain pests effectively
- Cholinesterase inhibitor

Chemical Group: Organophosphate group of insecticide

Mode of Action: Non-systematic contact, stomach and respiratory action

Compatibility: Incompatible with alkaline materials

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: Cythion is available in 500 ml, 1 litre & 5 litres packaging

Crop	Pest	Doses (ml/acre)
Paddy (Rice)	Rice Hispa	460
Sorghum	Earhead Midge	400
Pea	Pod Borer	600
Soybean	Leaf Weevil	600
Castor	Jassids	600
	Semilooper	800
Sunflower	Whitefly	400
Okra	Aphids	400
	Jassids	500
	Spotted Bollworm	600
Brinjal	Mite	600
Cabbage	Mustard Aphid	600
Radish	Stem Borer	600
Cauliflower	Head Borer	600
Turnip	Tobacco Caterpillar	480
Tomato	Whitefly	600
Apple	Sanjose Scale, Wooly Aphid	600-800
Mango	Mealy Bug, Scales, Mango Hopper	900-1200
Grape	Beetle	400

DINOCRON

(Dinotefuran 20% SG)



Specifications:

- **Fast Action:** Insect stops damaging and feeding on crop immediately after spray of Dinocron, it has a quick knockdown effect
- **Unique Mode of Action:** Dinocron effectively kills insect which have developed resistance against existing products
- **Longer Duration Control:** Dinocron gives longer duration of control compared to major existing products. It helps in reducing the spray rounds and cost
- **Crop Health and Better Yield:** Dinocron usage brings better yield, better quality of produce and better crop health
- **Rain fastness:** No adverse effect on the performance of Dinocron even if it rains three hours after application of Dinocron

Chemical Group: 3rd Generation furanicotinyl insecticide belonging to neonicotinoid group

Mode of Action: Systemic insecticide with translaminar activity and contact action

Compatibility: It is compatible with all the available insecticides and fungicides in the market except those which are highly acidic or alkaline in nature

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability : 100 g, 250 g, 500 g, 1 kg

Crop	Pest	Doses (g/acre)
Paddy	BPH	60-80
Cotton	Whiteflies, Jassids, Aphids & Thrips	50-60



ENDURER

(Hexythiazox 5.45% EC)

Specifications:

- Broad spectrum Acaricide
- Excellent ovicidal, larvicidal and nymphicidal activity
- Excellent effect on eggs laid by female adults applied with Hexythiazox
- No cross-resistance to mites, tolerant to conventional acaricides
- No phytotoxicity on most crops with long lasting effect
- No adverse effect on beneficial insects and natural enemies
- Good translaminar action

Chemical Group: Thiazolidinone group of insecticide

Mode of Action: Mite growth regulator

Compatibility: Biologically & physiologically compatible with most of the pesticide including alkaline chemicals and lime sulphur

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: Endurer is available in 100 ml, 250 ml, 500 ml & 1litre packaging

Acaricide

Crop	Pest	Doses (ml/ acre)
Tea	Scarlet Mite, Red Spider Mite	120-200
Chilli	Yellow Mites	120-200
Apple	European Red Mite	0.04% (10 l/tree)

FEROTIA

(Diafenthiuron 50% WP)



Specifications:

- Ferotia is an excellent product for control of Whitefly
- Ferotia also controls Aphids, Jassids and Mites
- Ferotia has systemic and evaporative action which helps control of white fly population even hidden underside of the leaves
- After spray on the crop, Ferotia breaks down into components of Urea providing nutrition to the crop
- Unlike other chemicals, Ferotia inhibits white fly resurgence and subsequent attack on the crop

Chemical Group: Thio-Urea Derivatives

Mode of Action: Inhibitor of ATP Synthase, Contact and / or stomach action with some ovicidal action

Compatibility: Compatible with most of the insecticides, fungicides & PGRs

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: Ferotia is available in 250 g, 500 g & 1 kg packing

Insecticide & Acaricide

Crop	Pest	Doses (g/acre)
Cotton	Whiteflies, Aphids, Thrips, Jassids	240
Cabbage	Diamond Backmoth	240
Chilli	Mites	240
Citrus	Mites	2 g/l (0.8-1.2 l/acre)
Brinjal	Whitefly	240
Cardamom	Thrips, Capsule Borer	320
Okra	Whiteflies, Red Spider Mites and Jassids	240
Tomato	Whiteflies and Red Spider Mites	240
Watermelon	Whiteflies, Red Spider Mites	240



FEROTIA GOLD

Diafenthiuron 50% WP

Specifications:

- Long lasting control
- Systemic and contact
- Belongs to a unique chemical group allowing control of insects and mites resistant to major chemical classes such as OPs or Pyrethroids
- Controls nymphs and adults and gives longer lasting control
- Ferotia Gold is a broad spectrum insecticide which controls sucking complex and mites as well
- Ferotia Gold has translaminar action, which allows control of hidden pests in the plant canopy and/or the underside of the leaves
- Ferotia Gold has vapour action and works well in dense crops and in large fields
- Degrades into a urea derivative resulting in a phytotonic effect
- Ferotia Gold is selective to beneficial insects and thus best fit in IPM programs

Chemical Group: Thiourea group insecticide

Mode of Action: Inhibitor of ATP Synthase, Contact and / or stomach action with some ovicidal action

Compatibility: It is compatible with all the available insecticides and fungicides in the market except those which are highly acidic or alkaline in nature

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: Ferotia Gold is available in 25 g, 100 g & 500 g packaging



Crop	Pest	Doses (g/acre)
Cotton	Whitefly, Aphids, Thrips & Jassids	240
Cabbage	Diamond Back Moth	240
Chilli	Mites	240
Brinjal	Whitefly	240
Cardamom	Thrips, Capsule Borer	320
Citrus	Mites	2g/l (2-3 l/Tree)
Watermelon	Whiteflies, Red Spider Mites	240

**NEW
PRODUCT**



FINIO

(Diafenthiuron 25 % + Pyriproxyfen 5% SE)

Specifications:

- It provides one shot solution for all stages of Whitefly (eggs, nymphs and eggs)
- It has quick Knockdown effect and long residual action
- It's unique combination with two different mode of action
- It possesses Phytotonic effect

Chemical Group: Thio-Urea Derivatives + Juvenile Hormone Mimics

Mode of Action: Contact, Stomach and Insect Growth Regulator

Compatibility: It is compatible with all the available insecticides and fungicides in the market except those which are highly acidic or alkaline in nature

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: Finio is available in 100 ml, 250 ml, 500 ml, 1 litre in packing

Insecticide

Crop	Pest	Doses (ml/acre)
Cotton	Whiteflies, Jassids, Aphids, Thrips	400-500

FORNAX SC

(Chlorantraniliprole 18.5% w/w SC)



Specifications:

- Fornax® has amazing control over lepidopteran pests
- Fornax® gives long duration control
- Fornax® gives better flowering and robust crop
- Fornax® provides high quality and better yield in crops
- Fornax® has green triangle which is safe for crop and beneficial insects
- Fornax® helps in getting better profits

Chemical Group:

Anthranilic Diamide with branded active ingredient: Rynaxypyr®

Mode of Action:

Activates Insect Ryanodine Receptors leading to Depletion of Ca⁺⁺ from internal stores results in paralysis and death of the insects

Compatibility:

It is compatible with all the available insecticides and fungicides in the market except those which are highly acidic or alkaline in nature

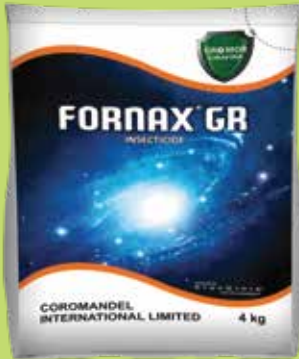
Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: Fornax SC is available in 10 ml, 30 ml, 60 ml & 150 ml packaging

Crop	Pest	Doses (ml/acre)
Cotton	American Boll Worm, Spotted Bollworm, Tobacco Caterpillar	60
Paddy	Stem Borer and Leaf Folder	60
Sugarcane	Early Shoot Borer, Top Borer	150
Sugarcane	Termites	200-250
Cabbage	Diamond Back Moth	20
Tomato	Fruit Borer	60
Soybean	Green Semiloopers Stem Fly, Girdle Beetle, Tobacco Caterpillar	60
Pigeon pea	Gram Pod Borer, Pod Fly	60
Bengal gram	Pod Borers	50
Black gram	Pod Borers	40
Bittergourd	Fruit Borer and Leaf Caterpillar	40-50
Okra	Fruit Borers	40
Chilli	Fruit Borer, Tobacco Caterpillar	60
Brinjal	Fruit Borer and shoot borer	80
Corn	Corn Stemborer, Pink Stemborer, Fall Armyworm	80
Groundnut	Tobacco Caterpillar	60

FORNAX GR

(Chlorantraniliprole 0.4% GR)



Specifications:

- Fornax® Gr has excellent control over yellow stem borer
- Fornax® Gr helps in development of healthy stem and strong root development
- Fornax® Gr gives more number of healthy tillers
- Fornax® Gr gives long duration control
- Fornax® Gr helps in reduction of white earheads
- Fornax® Gr helps in getting more healthy panicles
- Fornax® Gr helps in better grain filling
- Fornax® Gr is safe for beneficial insects and environment

Chemical Group:

Anthranilic Diamide with branded active ingredient: Rynaxypyr®

Mode of Action:

Activates Insect Ryanodine Receptors leading to Depletion of Ca++ from internal stores results in paralysis and death of the insects

Compatibility:

It is compatible with all the available insecticides and fungicides in the market except those which are highly acidic or alkaline in nature

Phytotoxicity:

No Phytotoxicity when applied as per the label recommendation

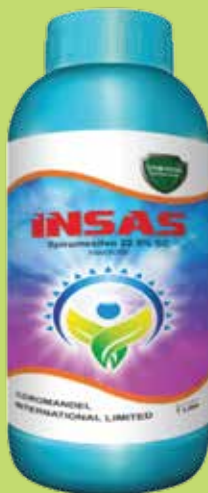
Availability : Fornax Gr is available in 4 kg packaging

Crop	Pest	Doses (kg/acre)
Paddy	Stem Borer and Leaf Folder	4
Sugarcane	Early Shoot Borer, Top Borer	7.5

**NEW
PRODUCT**

INSAS

(Spiromesifen 22.9% SC)



Specifications:

- It provides outstanding & long persistent control against all developmental stages (eggs and nymphs) of whiteflies and mites
- It effectively controls the most destructive life stage – Nymphs
- It's application results in reduced fecundity and laying of sterile eggs hence a longer duration of control
- It is friendly to beneficial insects and pollinators - Perfect fit for Integrated Pest Management (IPM)
- It is safe to plant, applicator, environment and to soil micro-organisms when used as per the recommendations

Chemical Group: Tetrone and Tetramic acid derivatives

Mode of Action: Inhibitors of acetyl CoA Carboxylase/Lipid Synthesis Inhibitor/Insect Growth Regulator

Compatibility: It is compatible with all the available insecticides and fungicides in the market except those which are highly acidic or alkaline in nature

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: Insas is available in 100 ml, 250 ml, 500 ml & 1 litre packaging

Acaricide

Crop	Pest	Doses (ml/acre)
Brinjal	Red Spider Mite	160
Cotton	Whitefly and Mite	240
Apple	European Red Mite & Red Spider mite	120
Chilli	Chilli Yellow Spider mite	160
Tea	Red Spider Mite	160
Okra	Red Spider Mite	160-200
Tomato	Whitefly and Mite	250

INTEGER

(Chlorpyrifos 50% EC)



Specifications:

- Integer is based on the active ingredient Chlorpyrifos, which belongs to organophosphorus group
- It is a broad spectrum insecticide acting as a nerve excitatory poison on insects. It is a contact and stomach poison, with fumigation action also
- It is widely used for control of various lepidopteron larvae
- It is also used for protecting buildings from termites at pre and post construction stages

Chemical Group: Organophosphate group of insecticide

Mode of Action: Nerve action

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: Integer is available in 250 ml, 500 ml & 1 litre packing

Insecticide

Crop	Pest	Doses (ml/acre)
Paddy	Stem Borer, Leaf Roller, Leaf Folder	300-320
Cotton	Bollworms	400-480



JOSH

(Cartap Hydrochloride 50% SP)

Specifications:

- Absorption by the plant system is faster and being systemic, it is spread to the entire plant system in a shorter period
- When applied, insects immediately stop feeding on crops, get paralysed and finally die due to starvation
- Effectively controls insects resistant to other insecticides
- It is effective against insects mining in plants by its systemic action
- Greater solubility in water than other granules

Chemical Group: Nereistoxin analogue group

Mode of Action: Nerve Action- Nicotinic Acetylcholine receptor channel blockers

Compatibility: Not compatible with alkaline chemicals

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: Josh is available in 50 g, 100 g, 250 g, 500 g and 1 kg pack

Insecticide

Crop	Pest	Doses (g/acre)
Paddy	Stem Borer, Leaf Folder	400-800

**NEW
PRODUCT**

MAKEBA

(Spinetoram 11.7% SC)



Specifications:

- It provides long-lasting, broad-spectrum control of insect pests in a variety of crops
- It kills insects faster
- It is active by ingestion (stomach poison) as well as contact
- It penetrates into leaf (translaminar) to provide control of thrips and leaf miner
- It is very effective at low rates and has low impact on most of the beneficial insects and non-target organisms in field conditions
- Winner of 'The Presidential Green Chemistry Challenge Award' in the category for 'designing safer chemicals' given by the US government

Chemical Group: Spinosyn

Mode of Action: Nerve Action- Nicotinic acetylcholine receptor allosteric modulators

Compatibility: It is compatible with all the available insecticides and fungicides in the market except those which are highly acidic or alkaline in nature

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: Makeba is available in 20 ml, 100 ml & 180 ml packaging

Insecticide

Crop	Pest	Doses (ml/acre)
Cotton	Thrips	168
	Tobacco Caterpillar and Spotted Bollworm	168-188
Chilli	Thrips, Fruit Borer	188-200
Grapes	Thrips	120
Maize	FAW	100



MYTHRI

(Fipronil 7% +Hexythiazox 2% SC)

Specifications:

- MYTHRI is a suspension concentrate containing Fipronil 7% and Hexythiazox 2% in the formulation
- MYTHRI has dual mode of Action: Systemic action through contact & oral causing disruption of central nervous system (GABAA receptors). IGR (insect growth regulator) action with ovicidal and nymphicidal effects
- MYTHRI has effective control on thrips and mites providing holistic control over sucking pest complex

Chemical Group: Phenyl pyrazole + Thiazolidinone

Mode of Action: Blocks GABAA-gated chloride channels in the central nervous system of target insect and Miticide Growth Inhibitor

Compatibility: It is compatible with all the available insecticides and fungicides in the market except those which are highly acidic or alkaline in nature

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: Mythri is available in 100 ml, 250 ml, 500 ml & 1 litre packing

Insecticide & Acaricide

Crop	Pest	Doses (ml/acre)
Chilli	Mites & Thrips	400

NINJA

(Buprofezin 25% SC)



Specifications:

- Ninja is an insect growth regulator. Ninja controls sucking pests effectively
- It has both insecticidal and acaricidal property
- It suppresses egg laying capacity of the female adults
- It gives phytotonic effect to the plant

Chemical Group: Thiadiazine group of insecticide

Mode of Action: Chitin Synthesis Inhibitor, Insect Growth Regulator

Compatibility: It is compatible with all the available insecticides and fungicides in the market except those which are highly acidic or alkaline in nature

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: Ninja is available in 250 ml, 500 ml, 1 litre & 5 litres packaging

Insecticide & Acaricide

Crop	Pest	Doses (ml/acre)
Paddy	BPH, Green Leaf Hopper, White Backed Plant Hopper	320
Cotton	Whiteflies, Jassids, Aphids, Thrips	400
Chilli	Yellow Mite	120-140
Mango	Mango Hoppers	1-2 mL/L water (5-15 L water/Tree)
Grapes	Mealy Bug	400-600



OPTRA

(Thiamethoxam 25% WG)

Specifications:

- Optra is a broad spectrum insecticide with contact, stomach & systemic action
- It affects the insects central nervous system as agonist of the nicotinic acetylcholine receptor
- Effectively controls Aphids & Jassids at low dosages
- Rapidly absorbed in plants and transported acropetally in Xylem thus giving longer duration control even in high rainfall areas
- It is safe for beneficial insects and can be used in IPM programs

Chemical Group: Neonicotinoid group of insecticide

Mode of action: Nerve Action-Nicotinic acetylcholine receptor competitive modulators

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: Optra is available in 100 g, 250 g, 500 g & 1 kg packing

Insecticide

Crop	Pest	Doses (g/acre)
Paddy	Stem borer, Leaf folder, Gall midge & Thrips	40
Cotton	Jassids, Aphids, Thrips	40
	Whiteflies	80

**NEW
PRODUCT**

OPTRA FS

(Thiamethoxam 30% FS)



Specifications:

- It helps in better germination of the seed
- Plays important role in establishment of healthy plant and better root structure
- It protects from targeted pests during early vulnerable tender growth stage
- It protects from environmental stress during early tender growth stage
- Its usage results in increased yield

Chemical Group: Neonicotinoid Insecticide

Mode of Action: Nerve Action-Nicotinic acetyl choline receptor competitive modulators

Compatibility: It is compatible with all the available insecticides and fungicides in the market except those which are highly acidic or alkaline in nature

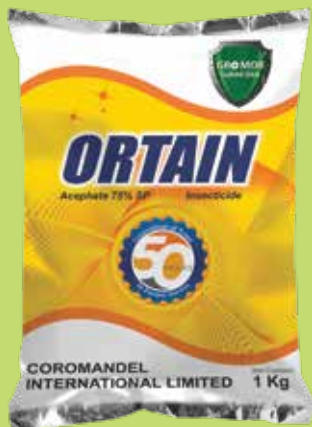
Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: Optra FS is available in 100 ml, 250 ml, 500 ml & 1 litre packaging

Insecticide

Crop	Pest	Doses (ml/kg of seeds)
Cotton	Jassids, Aphids, Whiteflies	10
Sorghum	Stem Fly	10
Okra	Jassids	5.7
Maize	Stem Fly	8.0
Wheat	Termites	3.3
Rice (Paddy)	Thrips, GLH, Whorl Maggot	3.0
Sunflower	Jassids, Thrips	10
Chilli	Thrips	7.0
Soybean	Stem fly	10





ORTAIN

(Acephate 75% SP)

Specifications:

- An ideal insecticide for use on a wide range of food crops and fibres
- It has prolonged effectiveness
- It has moderate persistence with residual activity lasting for 10-15 days
- It acts as cholinesterase inhibitor
- It works excellent against sucking and chewing pests

Chemical Group: Organophosphate group of insecticide

Mode of Action: Nerve Action- Acetylcholinesterase inhibitors, Systemic, contact and ovicidal action

Compatibility: It is compatible with all the available insecticides and fungicides in the market except those which are highly acidic or alkaline in nature

Phytotoxicity: Not phytotoxic to most of the crops

Availability: Ortain is available in 100 g, 250 g, 500 g, 1 kg and 5 kg pack

Insecticide

Crop	Pest	Doses (g/acre)
Cotton	Jassids	156
	Bollworm	312
Safflower	Aphids	312
Rice (Paddy)	Yellow Stem Borer, Leaf Folder, Plant Hoppers, Green Leaf Hopper	266 - 400

PARRY RATNA

(Cartap Hydrochloride 4% G)



Specifications:

- Absorption by the plant system is faster and being systemic, it is spread to the entire plant system in a shorter period
- When applied, insects immediately stop feeding on crops, get paralysed and finally die due to starvation
- Effectively controls insects resistant to other insecticides
- It is effective against insects mining in plants by its systemic action
- Greater solubility in water than other granules

Chemical Group: Nereistoxin analogue group of insecticide

Mode of Action: Nerve Action-Nicotinic Acetylcholine Receptor Channel blockers

Compatibility: Not compatible with alkaline chemicals

Phytotoxicity: May be phytotoxic to cotton, tobacco and apples under certain soil and climatic condition

Availability: Parry Ratna is available in 1 kg and 5 kg pack

Insecticide

Crop	Pest	Doses (Kg/acre)
Rice (Paddy)	Stem Borer	7.5
	Leaf Folder, Whorl Maggot	7.5-10



PARRYFOS

(Monocrotophos 36% SL)

Specifications:

- Broad spectrum insecticide having action on sucking, chewing and boring insects
- It also has good acaricidal action against large number of mite species
- It has long residual action
- Cholinesterase inhibitor

Chemical Group: Organophosphate group of insecticide

Mode of Action: Contact poison with systemic action, ovicidal action against Spodoptera, Helicoverpa, etc.

Compatibility: Incompatible with strongly alkaline material

Phytotoxicity: It is not phytotoxic against most of the crops

Availability: Parry is available in 100 ml, 250 ml, 500 ml, 1 litre & 5 litres packaging

Crop	Pest	Doses (ml/acre)
Cotton	Bollworms	450-900
	Aphids, Leaf Hopper, Thrips	175
	Grey Weevil	500
	White Fly	150
	Black Aphids	600-800
Citrus	Mites	375-500
	BPH, Yellow Stem Borer	500
Paddy	Green Leaf Hopper, Leaf Folder/ Roller	250
	Shoot Fly	250
Black Gram	Pod Borer	250
Green Gram	Pod Borer	175
Pea	Leaf Minor	400
Red Gram	Plume Moth, Pod Fly	250
	Pod Borer	500
	Shoot Borer	600-900
Sugarcane	Mealy Bug/ Scale Insect	600
	Pyrilla	200
	Stalk Borer	750
	Bug Mite	200-800
Mango	Gall Maker, Hopper Mealy Bug, Shoot Borer	200-800
	Black Headed Caterpillar	08.75-17.50 ml/tree
Coconut	Green Bug	625
Cardamom	Thrips	375



PARRYMIDA

(Imidacloprid 17.8% SL)

Specifications:

- Long duration control over pests as compared to conventional insecticides, are the most distinct characteristics of Parrymida
- The product is cheaper compared to other synthetic pyrethroids in terms of per acre cost
- It has translaminar activity
- It acts as an antagonist

Chemical Group: Neonicotinoid group of insecticide

Mode of Action: Nerve Action-Nicotinic acetylcholine receptor competitive modulators

Compatibility: It is compatible with all the available insecticides and fungicides in the market except those which are highly acidic or alkaline in nature

Phytotoxicity: When applied in recommended dose, it does not show any phytotoxic effect

Availability: Parrymida is available in 50 ml, 100 ml, 250 ml, 500 ml and 1 litre pack

Insecticide

Crop	Pest	Doses (ml/acre)
Cotton	Aphids, Jassids, Whiteflies & Thrips	40-50
Paddy	BPH, WBPH, GLH	40-50
Chilli	Jassids, Aphids & Thrips	50-100
Mango	Leaf Hopper	2-4 ml/tree; 10 litre water/tree
Sugarcane	Termite	140 (Spray over setts in furrow and cover with soil)

PERMASECT

(Permethrin 25 % EC)



Specifications:

- Suitable for the pests of Hemiptera, Homoptera, Lepidoptera, Coleoptera and mites
- Knockdown effect
- Long residual activity
- Does not readily dissolve in water. Stays on surface, hence it has long residual action. The repellent action of the pesticide does not allow the pest to lay eggs on the treated crops
- Acts on the nervous system of the insects and disturbs the functions of neurons by interaction with sodium channel

Chemical Group: Synthetic pyrethroid group of insecticide

Mode of Action: Nerve Action- Sodium channel modulators

Compatibility: Mixing with Calcium Nitrate is not recommended

Phytotoxicity: Not phytotoxic when applied as directed, except for some ornamental plants

Availability: Permasect is available in 100 ml, 250 ml, 500 ml, 1 litre and 5 litres pack

Insecticide

Crop	Pest	Doses (ml/acre)
Cotton	Bollworms	160-200

PHENDAL

(Phenthoate 50% EC)



Specifications:

- It has broad-spectrum action as insecticide
- Rapid knockdown action with long term control and breaks resistance of insects
- Great synergistic activity and Ovicidal action
- It acts as cholinesterase inhibitor
- It has strong pungent odour which prevents adult moth from laying eggs

Chemical Group: Organophosphate group of insecticide

Mode of Action: Nerve Action, contact, stomach, ovicidal and repellent action

Compatibility: Compatible with almost all insecticides, fungicides, fertilisers except those with alkaline nature like lime sulphur

Phytotoxicity: It is having phytotoxic effect on some varieties of grapes and red skinned varieties of apple

Availability: Phendal is available in 100 ml, 250 ml, 500 ml, 1 litre and 5 litres pack

Insecticide

Crop	Pest	Doses (ml/acre)
Cotton	Bollworm, Pink Bollworm	800
Paddy	Rice Caseworm	400
Black gram	Bihar Hairy Caterpillar	320
Gram	Pod Borer	800
Green gram	Bihar Hairy Caterpillar	320
	Pod Borer	800
Groundnut	Leaf Webber	400
Cardamom	Thrips	200



PIRANHA

(Buprofezin 15% & Acephate 35% WP)

Specifications:

- Piranha inhibits egg laying, hatching & moulting in nymphs leading to death
- Piranha acts as cholinesterase inhibitor
- Piranha offers complete protection against BPH
- Piranha is also effective against other sucking pest like scales, mealybugs & Whiteflies apart from hoppers

Chemical Group: Thiadiazinanes + Organophosphates

Compatibility: It is compatible with all the available insecticides and fungicides in the market except those which are highly acidic or alkaline in nature

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Mode of Action: Nerve Action, Chitin Synthesis Inhibitor, Insect Growth Regulator

Time of application:

- Nymphal stages are more susceptible to PIRANHA spray
- Best control can be obtained when sprays are done as early as possible on noticing nymphs

Availability: Piranha is available in 250 g, 500 g and 1 kg pack

Insecticide

Crop	Pest	Doses (g/acre)
Cotton	Aphids, Jassids & whiteflies	500
Paddy	BPH, WBPH	500
Okra	Jassids, Whiteflies	300

SALVO GR

(Fipronil 0.3% GR)



Specifications:

- It controls economically important pests at lower doses
- Effectively control insects that are resistant to other chemistries
- Broad-spectrum insecticide
- Greater water-solubility in water than other granules
- Longer persistence
- Low dose insect control against a broad range of economically important pest
- Effectively controls insect resistant to other insecticides

Chemical Group: Phenyl Pyrazole

Mode of Action: Systemic insecticide with Contact and Stomach poison, GABA gated chloride channel blocker

Compatibility: It is compatible with all the available insecticides and fungicides in the market except those which are highly acidic or alkaline in nature

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: Salvo is available in 1 kg and 5 kg in packaging

Insecticide

Crop	Insect	Doses (kg/acre)
Paddy	Stem borer, Gall midge, GLH, Whorl Maggot, WBPH, BPH	6.66-10
Sugarcane	ESB	10-13.3



SALVO SC

(Fipronil 5% SC)

Specifications:

- It controls economically important pests at lower doses
- Broad-spectrum insecticide with rapid knockdown effect
- Fipronil acts by blocking the GABA-gated chloride channels of neurons in the central nervous system
- Longer persistence
- Stimulates good development of root-system
- More number of productive tillers
- Low-dose insect control against a broad range of economically important pests
- Safe to beneficial insects and environment

Chemical Group: Phenyl-pyrazole group insecticide

Mode of Action: Systemic with contact & stomach poison

Compatibility: It is compatible with all the available insecticides and fungicides in the market except those which are highly acidic or alkaline in nature

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: Salvo SC is available in 100 ml, 250 ml, 500 ml, 1 litre, 5 litres, 10 litres, 20 litres pack

Insecticide

Crop	Pest	Doses (ml/acre)
Rice	Stem Borer, BPH, GLH, Rice Leaf Folder, Rice Gall Midge, WBPH, Whorl Maggot	400-600
Cabbage	Diamond Back Moth	320-400
Chilli	Thrips, Aphids, Fruit Borer	320-400
Sugarcane	Early Shoot Borer, Root Borer	600-800
Cotton	Aphids, Jassids, Thrips and Whiteflies	600-800
	Bollworms	800

SCUBA

(Acetamiprid 20 % SP)



Specifications:

- Immediate knockdown effect and also gives protection for longer duration
- Highly effective against sucking pests like whitefly
- It has excellent translaminar action

Chemical Group: Neonicotinoid group insecticide

Mode of Action: Nerve Action

Compatibility: It is compatible with all the available insecticides and fungicides in the market except those which are highly acidic or alkaline in nature

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: Scuba is available in 20 g, 50 g, 100 g, 250 g packaging

Insecticide

Crop	Pest	Doses (g/acre)
Cotton	Aphids, Jassids	20
	Whiteflies	40

TRISHUL

(Chlorpyrifos 20% EC)



Specifications:

- Broad-spectrum insecticide with quick knockdown effect
- It is best suited for soil drenching on any crop to control soil pests
- It can be used in buildings for treatment against termites

Chemical Group: Organophosphate group insecticide

Mode of Action: Nerve Action-Acetyl Cholinesterase inhibitor

Compatibility: It is incompatible with alkaline material

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: Trishul is available in 100 ml, 250 ml, 500 ml, 1 litre, 5 litres & 20 litres packaging

Insecticide

Crop	Pest	Doses (ml/acre)
Rice	Hispa	500
	Leaf Folder	750
	Gall midge, Stem Borer, Whorl Maggot	500
Sugarcane	Blackbug	300
	Early Shoot & Stalk Borer	500-600
	Pyrilla	600
Cotton	Aphid, Bollworm, Whitefly, Jassid	500
	Pink Bollworm	500-900
Groundnut	Aphid	400
Mustard	Aphid	200
Brinjal	Shoot & Fruit Borer	400
Tea	Scale Insect Red Slug Caterpillar	300

VICAVOLT

(Imidacloprid 30.5% SC)

Specifications:

- Vicavolt is an insecticide formulation in Suspension Concentrate
- It is a systemic insecticide with translaminar activity and with contact & stomach action
- It is readily taken up by the plants and further distributed in all plant parts
- It is a Chloro-nicotinyl insecticide with soil, seed and foliar use
- It is for control of sucking insects including rice hoppers, aphids, thrips, whiteflies, termites, turf insects
- It reduces surface runoff and provides uniform coverage over the foliage with enhanced penetration & stability
- Vicavolt is found to be very effective up to 10-14 days after application at recommended dosage

Chemical Group: Neonicotinoid Group Insecticide

Mode of Action: Systemic insecticide with translaminar activity and with contact & stomach action

Compatibility: It is compatible with all the available insecticides and fungicides in the market except those which are highly acidic or alkaline in nature

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: Vicavolt is available in 100 ml, 250 ml, 500 ml, 1 litre packaging



Crop	Pest	Doses (ml/acre)
Cotton	Aphids, Jassids, Thrips	24-30
Paddy	Brown Plant Hoppers and White Backed Plant Hoppers	25-30

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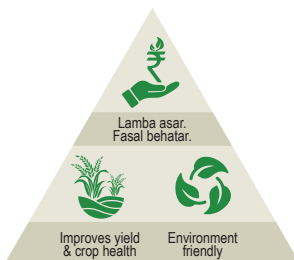
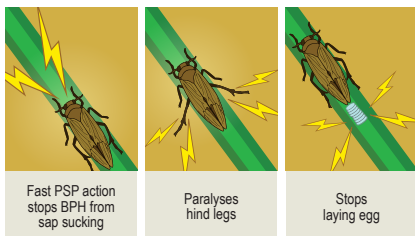
1st Apply 45-60 Days, Then 12-15 Days later.

**BPH
SE
PEHALE**

ASTRA



ASTRA



DOSAGE: Astra 120gms/acre | Water 200lts/acre

Fungicides



AAROOSH

(Propineb 70% WP)



Specifications:

- Aaroosh is a foliar contact fungicide
- Aaroosh interferes at different locations in the metabolism of the fungi. It prevents spore germination and germ tube formation
- Aaroosh remains on the treated plant surface. It has very good adhesive property and rain fastness
- Aaroosh suspension stays stable without settling down for long time
- Aaroosh's multi-site mode of action on fungi prevents the development of resistance against it
- Aaroosh has zinc available in the complex form which is easily taken up by the plants
- Aaroosh can be applied at various stages of crop as a protective treatment on several crops for the control of various fungal diseases

Chemical Group: Dithiocarbamate group of fungicide

Mode of Action: Multisite activity and contact action

Fungicide Compatibility: It is incompatible with alkaline materials

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: Aaroosh is available in 100 g, 250 g, 500 g & 1 kg packaging

Crop	Disease	Doses (g/acre)
Apple	Scab	600
Pomegranate	Leaf and Fruit Spots	600
Potato	Early & Late Blight	600
Chilli	Dieback	1000
Tomato	Buck Eye Rot	600
Grapes	Downy Mildew	600
Rice	Brown Leaf Spot/ Narrow Leaf Spot	600-800

AGNI

(Tricyclazole 75% WP)



Specifications:

- Agni primarily controls rice blast disease
- Agni is absorbed rapidly by the leaves and translocated within the plant
- Long persistence in the plant, it gives long protection
- It is rapidly and extensively metabolised
- Good phytotonic effect
- It is a melanin bio-synthesis inhibitor

Chemical group: Triazolobenzothiazole

Mode of Action: Melanin synthesis inhibitor in cell wall

Compatibility: It is incompatible with alkaline material

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: Agni is available in 120 g & 250 g packaging

Fungicides

Crop	Disease	Doses (g/acre)
Paddy	Blast	120-160



HEXASTOP

(Thiophanate Methyl 70% WP)

Specifications:

- Broad spectrum disease control
- A xylem mobile systemic fungicide
- Wide spectrum of use- **Seed Dressing, Foliar and Drenching**
- Preventive and curative disease control
- Phytotonic effect due to **Sulphur** atom
- Highly effective in controlling a number of fungal diseases with specialized management for few select pathogens
- Safe for human beings, birds & mammals – **Green triangle**

Chemical Group: Benzimidazole group of fungicide

Mode of Action: Cytoskeleton and motor protein
(Methyl Benzimidazole Carbamates)

Compatibility: It is incompatible with alkaline material

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: Hexastop is available in 50 g, 100 g, 250 g, 500 g, 1 kg pack and 5 kg drum

Fungicides

Crop	Disease	Doses (g/acre)
Papaya	Powdery Mildew	286
Apple	Scab	286
Bottle Bourd	Anthrachnose	572
Grapes	Powdery Mildew, Anthracnose ,Rust	286

JATAYU

(Chlorothalonil 75% WP)



Specifications:

- Broad spectrum fungicide
- It is having superior protective action due to its multisite mode of action and anti-sporulant activity
- It has long persistence on crop surface and low soil mobility
- It gives control up to 10 days
- It is one of the best alternatives in complex disease outbreak situation

Chemical Group: Benzene di-carbonitrile (chloronitrile) group of fungicide

Mode of Action: Multi-site activity and contact action

Compatibility: Not compatible with oils

Phytotoxicity: Russetting is possible with flowering, ornamental crops, apples and grapes, if applied more than the recommended doses

Availability: Jatayu is available in 100 g, 250 g, 500 g & 1 kg packaging

Fungicides

Crop	Disease	Doses (g/acre)
Groundnut	Tikka Leaf Spot, Rust	350- 600
Potato	Early Blight, Late Blight	350-500



KAPENI

(Carbendazim 12% + Mancozeb 63% WP)

Specifications:

- Broad spectrum fungicide
- Unique combination of systemic and contact fungicide
- It is both prophylactic and curative action
- Provides Zn and Mn nutrition to crops, thus makes the plant greener and healthier
- Mancozeb acts on the different sites of the fungal cell and carbendazim acts on the beta tubulin synthesis

Chemical Group: Benzimidazole & Dithiocarbamate

Mode of action: Multi-site activity and Cytoskeleton and motor protein inhibitor

Compatibility: It is not compatible with alkaline chemicals

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: 100 g, 250 g, 500 g and 1 kg

Fungicides

Crop	Disease	Doses (g/acre)
Paddy	Blast	300
Groundnut	Leaf Spot, Blast	200
Potato	Early Blight, Late Blight, Black Scurf	700
Tea	Blister Blight, Grey Blight, Red Rust, Die-back, Black Rot	500
Grape	Downy Mildew, Powdery Mildew, Anthracnose	1.5 g/litre water
Mango	Powdery Mildew, Anthracnose	1.5 g/litre
Chilli	Leaf Spot, Fruit Rot, Powdery Mildew	300
Groundnut	Tikka Leaf Spot, Collar Rot, Dry Root Rot	2.5 g/kg seed



LANCIA

(Propineb 54.2% + Tricyclazole 15% WP)

Salient Features:

- Lancia is a patented and unique fungicide
- Lancia has dual action having contact and systemic properties
- Lancia is rapidly absorbed by the plants and translocated towards leaf tips
- It is a protectant fungicide that prevents the fungus from penetrating the plant, which prevents multiplication & spread of pathogen
- It also gives good curative control
- No resistance risk, helpful in resistance management

Chemical Group: Dithiocarbamate and Triazolobenzothiazole

Mode of action: Multi-site activity and Melanin synthesis inhibitor in cell wall

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: Lancia is available in 100 g, 250 g, 500 g & 1 kg packaging

Fungicides

Crop	Disease	Doses (g/acre)
Rice	Brown Leaf Spot & Blast	500

MARLETT M 45

(Mancozeb 75% WP)



Specifications:

- It is broad spectrum contact fungicide
- It is having multi-site activity on the cell wall
- It acts as an additional source on Zn and Mn in the plant
- Cost effective and gives long duration of control

Chemical Group: Dithiocarbamate group of fungicide

Mode of action: Multi-site activity

Compatibility: It is not compatible with the alkaline chemicals

Phytotoxicity:

No Phytotoxicity when applied as per the label recommendation

Availability: Marlett M45 is available in 100 g, 250 g, 500 g & 1 kg packaging

Crop	Disease	Doses (g/acre)
Wheat	Brown & Black Rust, Blight	600-800
Maize	Leaf Blight, Downy Mildew	600-800
Paddy (Rice)	Blast	600-800
Jowar	Leaf Spot	600-800
Potato	Late Blight, Early Blight	600-800
Tomato	Late Blight, Buckeye Rot, Leaf Spot	600-800
Chilies	Damping Off	3 (soil drench)
	Fruit Rot, Ripe Rot,	600-800
	Leaf Spot	600-800
Cauliflower	Collar Rot	3
	Leaf Spot	600-800
Groundnut	Tikka Disease & Rust	600-800
	Collar Rot, Leaf Spot	25 to 30/10 kg seed
Grapes	Angular Leaf Spot, Downy Mildew, Anthracnose	600-800
Guava	Fruit Rot	20/tree
Banana	Cigar End Rot, Tip Rot, Sigatoka Leafspot	600-800
Apple	Scab& Sooty Blotch	30/tree
Cumin	Blight	600-800

**NEW
PRODUCT**



MAGNITE

(Azoxystrobin 18.2%+ Difenconazole 11.4% SC)

Specifications:

- It is a broad-spectrum product
- It offers preventive, systemic and curative activity
- It provides a resistance management tool
- The product demonstrates rapid uptake with translaminar and xylem-systemic movement
- Its two highly efficacious active ingredients combine to provide sustained peak performance for maximum yield and high return on investment

Chemical Group: Combination of Strobilurin & Triazole

Mode of Action: Inhibit cell respiration and sterol biosynthesis in cell membrane

Compatibility: It is compatible with all the available insecticides and fungicides in the market except those which are highly acidic or alkaline in nature

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: Magnite is available in 100 ml, 200 ml, 500 ml & 1 litre packaging

Crop	Disease	Doses (ml/acre)
Wheat	Rust & Powdery Mildew	200
Tomato	Early Blight & Late Blight	200
Paddy	Blast & Sheath Blight	200
Maize	Blight & Downy Mildew	200
Chilli	Anthraxnose & Powdery Mildew	200
Cotton	Leaf Spot and Grey Mildew	200
Turmeric	Leaf Blotch, Leaf Spot, Rhizome Rot	200
Onion	Purple Blotch, Stemphylium Blight, Downy Mildew	200
Sugarcane	Red Rot, Smut and Rust	160

ODIN

(Dimethomorph 50% WP)



Specifications:

- Odin provides excellent control of Oomycetes fungal diseases in important crops
- It has translaminar action - good uptake into sprayed leaves. Acts on treated plant parts but also redistribution in the plant tissue
- It provides good rainfastness and longer residual control. Offers good residual activity for long spray intervals
- Odin offers a unique and novel mode of action with no cross-resistance to phenylamide or strobilurine
- Odin prevents sporulation much better than many other fungicides. The anti-sporulant activity of Odin fungicide stops, contains and kills late blight spores, preventing the spread of blight between plants and neighbouring fields
- It has a unique mode of action which disintegrates cell wall to kill the pathogen
- Odin is effective against different stages of the fungal lifecycle

Chemical group: Cinnamic acid amides

Mode of Action: Odin affects cell wall production in fungi by inhibition of sterol synthesis. It disintegrates cell wall (cell wall lysis) to kill the pathogen

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: Odin is available in 100 g & 200 g packaging

Crop	Disease	Doses (g/acre)
Grapes	Downy mildew	400
Potato	Late blight	400



PROPICRON

(Propiconazole 25% EC)

Specifications:

- Broad spectrum systemic fungicide
- It is having excellent preventive and curative action
- It is quickly absorbed by the plant, so it starts acting on the fungal cells quickly
- It gives long duration of control against the fungal diseases
- Ergosterol biosynthesis inhibitor

Chemical group: Triazole group of fungicide

Mode of Action: Inhibit sterol biosynthesis in cell membranes

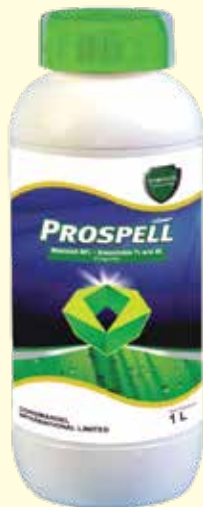
Compatibility: It is incompatible with the alkaline chemicals

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: 100 ml, 250 ml, 500 ml and 1 litre

Fungicides

Crop	Disease	Doses (ml/acre)
Wheat	Karnal Bunt, Leaf Rust/Brown Rust, Stem Rust/Black Rust, Stripe Rust/Yellow Rust	200
Rice	Sheath Blight	200
Groundnut	Early Leaf Spot, Late Leaf Spot, Rust	200
Tea	Blister Blight	50-100
Soybean	Rust	200
Cotton	Leaf Spot	200



PROSPELL

(Azoxystrobin 7% + Mancozeb 40% OS)

Specifications

- Prospell is a patented and unique fungicide
- Prospell is a broad spectrum fungicide
- Prospell has both contact and systemic mode of action
- Prospell has very good preventive and curative properties which provides flexibility and broad window of application
- No risk of resistance because of multisite mode of action so helpful in resistance management
- Prospell impacts positively on the physiological activity of the applied crop by improving the yield and quality of the produce, thus fetching better price

Chemical Group:

QoI (Quinone outside Inhibitors) and Dithiocarbamate

Mode of Action: Inhibit cell respiration and multi-site activity

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: 100 ml, 250 ml, 500 ml, 1 litre

Fungicides

Crop	Disease	Doses (ml/acre)
Tomato	Early Blight & Late Blight	600

Herbicides





FERVENT

(Imazethapyr 10% SL)

Specifications:

- It is mostly used as post emergent herbicide
- Gives long duration of control
- Readily absorbed by foliage; root absorption also occurs but is slower; translocated via both the xylem and phloem
- Inhibits acetolactate synthase (ALS), also called acetohydroxyacid synthase (AHAS), a key enzyme in the biosynthesis of the branched-chain amino acids isoleucine, leucine, and valine

Chemical Group: Belongs to Imidazolinones group of herbicide

Mode of Action: Selective systemic herbicide

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: Available in 250 ml, 500 ml and 1 litre packing

Herbicides

Crop	Weeds	Doses (ml/acre)
Soybean	<i>Cyperus difformis</i> , <i>Echinochloa colonum</i>	400
	<i>E. crusgalli</i> , <i>Euphorbia hirta</i> , <i>Croton sperssifeorus</i> ,	
	<i>Digera arvensis</i> , <i>Commelina</i> , <i>Benghalensis</i>	
Groundnut	<i>Cyperus difformis</i> , <i>Commelina</i> , <i>Benghalensis</i> ,	400-600
	<i>Trianthema portulacasturm</i> , <i>Eragrostis pilosa</i>	

GAYAB

(Atrazine 50% WP)



Specifications:

- Gayab is a selective herbicide. It is used for the effective control of weeds of Maize and Sugarcane crops
- Blanket application immediately after planting/ sowing of maize and pre-emergence application in sugarcane

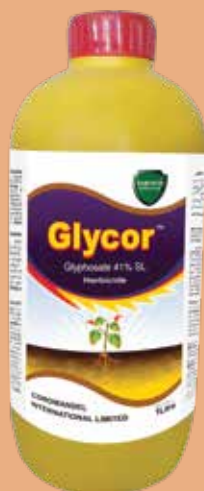
Chemical Group: Gayab is selective herbicide of Triazines Group which contains Atrazine 50% as active ingredient

Mode of Action: Inhibition of photosynthesis at Photosystem II

Availability: Available in 500 g packaging

Herbicides

Crop	Weeds	Doses (g/acre)
Maize	<i>Trianthama monogyna</i> , <i>Digera arvensis</i> , <i>Echinochloa spp</i> , <i>Eleusine spp</i> , <i>Xanthium strumarium</i> , <i>Brachiaria sp</i> , <i>Digitaria sp</i> , <i>Amaranthus viridis</i> , <i>Cleome viscosa</i> , <i>Polygonum spp</i>	400-800
Sugarcane	<i>Protulaca oleracea</i> , <i>Digitaria spp</i> , <i>Boerhaavia diffusa</i> , <i>Euphorbia spp</i> , <i>Tribulus terrestris</i>	400-1600



GLYCOR

(Glyphosate 41% SL)

Specifications:

- It is a post emergence herbicide
- Glycor also kills problematic and difficult weeds like sedges
- Glycor can be used both as pre-plant application and inter-row application
- Glycor should preferably be used when the weed is at 6-8 leaf stage and has grown up to 6-8 inch height
- Inactivated on contact with the soil

Chemical Group: Glycine derivative

Mode of Action: Non-selective, systemic herbicide

Compatibility: Mixing with other herbicide may reduce the activity of Glycor

Availability: Glycor is available in 250 ml, 500 ml, 1 litre and 5 litres packaging

Herbicides

Crop	Weeds	Doses (ml/acre)
Tea	<i>Arundinella bengalensis</i> , <i>Axonopus compressus</i> <i>Cynodon dactylon</i> , <i>Imperata cylindrical</i> , <i>Kalm grass</i> , <i>Paspalum scrobiculatum</i> , <i>Polygonum perfoliatum</i>	800-1200
Non-Cropped area	<i>Sorghum helepense</i> and other dicot & monocot weeds in general	800-1200

KILLSHOT

(Ammonium Salt of Glyphosate 71% SG)



Specifications:

- Killshot is a non-selective herbicide post emergence used for control of wide range of annual, perennial broadleaf and grassy weeds in field crops, orchards & plantations
- When sprayed, it is rapidly absorbed and translocated to roots & rhizomes killing the weeds from below the ground
- It is very effective against difficult-to-control weeds

Chemical Group: Organophosphate derivatives

Mode of action: Non-selective systemic herbicide

Compatibility: Mixing with other Herbicide may reduce efficiency of Killshot

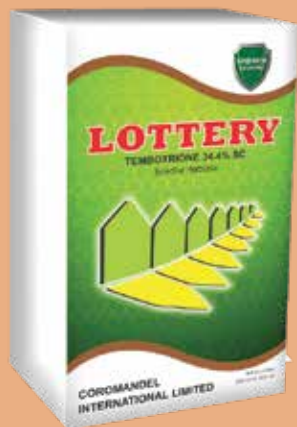
Availability: Killshot is available in 100 g, 250 g, 500 g & 1 kg packaging

Herbicides

Crop	Weeds	Doses (g/acre)
Tea & Non-Crop area	<i>Acalypha indica</i> , <i>Ageratum conyzoides</i> , <i>Cychorium intybus</i> , <i>Digera arvensis</i> , <i>Cynodon dactylon</i> , <i>Cyperus rotundus</i> , <i>Digitaria sanguinalis</i> , <i>Eragrostis spp</i> , <i>Ipomea digitaria</i> , <i>Paspalum conjugatum</i> <i>Sida aculata</i>	1200

LOTTERY

(Tembotrione 34.4% SC)



Specifications:

- Lottery is a broad spectrum post emergence herbicide recommended for use along with surfactant for control of broad leaf and grassy weeds in corn
- Lottery ensures quick escape from weed competition without compromising crop safety
- Lottery can be used on any variety
- Lottery offers the maximum convenience through early to late post emergent application

Time of Application & Application Equipment:

Maize Tembotrione 34.4% SC can be applied with knapsack sprayer fitted with flat nozzle at 3-5 leaf stage of weeds

Chemical Group: Triketone

Mode of action: 4-Hydroxyphenylpyruvate dioxygenase (HPPD) inhibitors

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: Lottery is available in 115 ml, 230 ml packaging

Herbicides

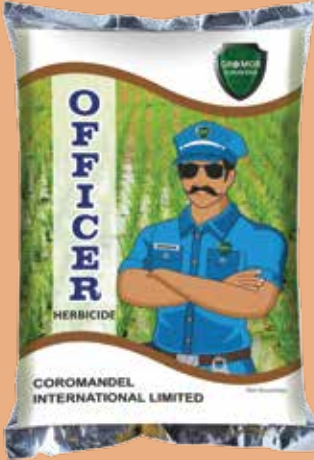
Crop	Weeds	Doses (ml/acre)
Maize	<i>Trianthema portulaca strum</i> , <i>Echinochloa sp</i> , <i>Bracharia sp</i>	115

Tembotrione 34.4% SC formulation is recommended for use with Surfactant @ 400ml/acre along with 500 g Atrazine (Gayab)

**NEW
PRODUCT**

OFFICER

(Bispyribac Sodium 20%+ Pyrazosulfuron Ethyl 15% WDG)



Specifications:

- Novel chemistry with unique formulation for rice post emergent weed control
- Unique application window. Apply at 1-3 weed leaf stage
- Broad spectrum post emergent herbicide controls all kinds of key weeds like grassy, broad leaf and sedges
- Low dosage of 60 gm/acre
- Safe on rice and fallow crop
- Season-long duration of weed control during critical crop weed competition period
- Safe eco-toxicological profile
- Rain fastness of 6 hours

Chemical Group: Sulfonylurea & Pyrimidinyl benzoates

Mode of Action: ALS inhibitor

Compatibility: Do not recommend mixing with any other product

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: Officer is available in 60 g packaging

Herbicides

Crop	Weeds	Doses (g/acre)
Rice	<i>Echinochloa colonum</i> , <i>Echinochloa crusgalli</i> , <i>Eclipta alba</i> , <i>Cyperus rotundus</i>	60*

*Dosage under correction





PILOT

(Pretilachlor 50% EC)

Specifications:

- Broad spectrum, selective & pre-emergence herbicide for transplanted rice
- It controls grasses, sedges and broad leaved weeds
- Pilot does not harm the transplanted paddy
- Pilot gives long term weed control
- Pilot enters weeds through hypocotyls, mesocotyls & coleoptiles
- Inhibits cell division

Chemical Group: Chloroacetamide group of herbicide

Mode of Action: Selective herbicide

Compatibility: There should be standing water in the field up to 5 days after application

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

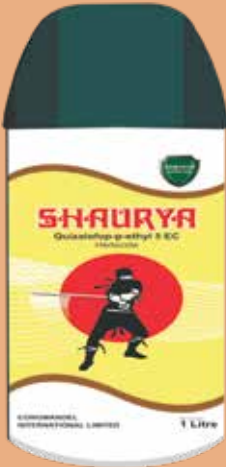
Availability: Pilot is available in 250 ml, 500 ml, 1 litre and 5 litres pack

Herbicides

Crop	Weeds	Doses (ml/acre)
Transplanted Rice	<i>Echinochloa crusgali</i> , <i>Echinochloa colonum</i> , <i>Cyperous difformis</i> , <i>Cyperous iria</i> , <i>Fimbristys milliacea</i> , <i>Eclipta elba</i> , <i>Ludwigia parviflora</i> , <i>Leptochlon chinensis</i> , <i>Monocharia vaginalis</i> , <i>Panicum repens</i>	400-600

SHAURYA

(Quizalofop Ethyl 5% EC)



Specifications:

- It is a selective, systemic herbicide
- It is used to control narrow leaf weeds effectively
- It is very quickly absorbed by weeds & translocated & kill the weeds
- Affected weeds are unable to regenerate
- It quickly absorbed by leaf of weeds, hence rain even one hour after spray does not affect its effectiveness
- Weed leaves turn purple/red within 5-8 days after Shaurya application and within 10-15 days are completely killed

Chemical Group: Aryloxy phenoxy-Propionates group

Mode of Action: Selective herbicide and selective by inhibition of acetyl CoA Carboxyl

Availability: Shaurya is available in 100 ml, 250 ml, 500 ml & 1 litre packaging

Herbicides

Crop	Weeds	Doses (ml/acre)
Soybean	<i>Echinochloa crusgalli</i> , <i>E. colonum</i> , <i>Eragrostis sp</i>	300-400
Cotton	<i>Echinochloa crusgalli</i> , <i>Echinochloa colonum</i> , <i>Dinebra retroflexa</i> , <i>Digitaria marginate</i>	400
Ground nut	<i>Echinochloa colonum</i> , <i>Dinebra retroflexa</i> <i>Dactyloctenium sp</i>	300-400
Black gram	<i>Eleusine indica</i> , <i>Dactyloctenium aegyptium</i> , <i>Digitaria sanguinalis</i> , <i>Eragrostis sp</i> , <i>Paspalidium sp</i> , <i>Echinochloa sp</i> , <i>Dinebra retroflexa</i>	300-400
Onion	<i>Digitaria sp</i> , <i>Eleusine indica</i> , <i>Dactyloctenium aegyptium</i> , <i>Eragrostis sp</i>	300-400



WEEDAX

(Paraquat Dichloride 24% SL)

Specifications:

- Weedax is a non-selective contact herbicide
- It is absorbed by foliage with some translocation in xylem
- It is used for broad spectrum control of broad leaved weeds and grasses in orchards, plantation crops, tea and non-cropped areas
- It is used in pre-crop emergence weed control, directed post-crop emergence weed control and plantation weed control

Chemical Group: Bipyridylum class of herbicide

Mode of Action: Non-selective contact herbicide

Compatibility: Incompatible with alkaline materials, anionic surfactants and clay containing inert materials

Availability: Weedax is available in 250 ml, 500 ml, 1 litre & 5 litres packing

Crop	Weeds	Doses (ml/acre)
Tea	<i>Imperata setaria</i> sp, <i>Commelina benghalensis</i> , <i>Boerraria hispida</i> , <i>Paspalum conjugatum</i>	320-1700
Potato	<i>Chenopodium</i> sp, <i>Angallis arvensis</i> , <i>Trianthema monogyna</i> , <i>Cyperus rotundus</i> , <i>Fumeria parviflora</i>	800
Cotton	<i>Digera arvensis</i> , <i>Cyperus iria</i> , <i>Trianthema monogyna</i> , <i>Corchorus</i> spp, <i>Leucas aspera</i> , <i>Euphorbia</i> spp	500-800
Rubber	<i>Digitaria</i> sp, <i>Eragrostis</i> sp, <i>Fimbristylis</i> sp	600-1000
Coffee	<i>Digitaria marginata</i> , <i>paspalum Conjugatum</i> , <i>Ageratum</i> , <i>Conyzides</i> , <i>Borreria hispida</i> , <i>Euphorbia hirta</i> , <i>Commelina benghalensis</i> , <i>Eleusine indica</i>	400
Rice	<i>Echinochloa crusgalli</i> , <i>Cyperus iria</i> , <i>Ageratum conyzides</i> , <i>Commelina benghalensis</i> , <i>Marsilea quadriofoliata</i> , <i>Brachiaria mutica</i>	500-1400
Wheat	Grassy & Broad leaf weeds	1700
Maize	<i>Cyperus rotundus</i> , <i>Commelina benghalensis</i> , <i>Trianthema monogyna</i> , <i>Amaranthus</i> sp, <i>Echinochloa</i> sp	320-800
Maize	<i>Cyperus iria</i> , <i>Cyperus rotundus</i> , <i>Commelina benghalensis</i> , <i>Amaranthus</i> sp, <i>Echinochloa</i> sp, <i>Trianthema monogyna</i>	320-800
Grapes	<i>Cyperus rotundus</i> , <i>Cynodon dactylon</i> , <i>Convolvulus</i> sp, <i>Portulaca</i> sp, <i>Tridax</i> sp	800
Apple	<i>Rosa moschata</i> , <i>Rosa eglantaria</i> , <i>Rubus ellipticus</i>	1300
Aquatic weed control	<i>Eichhornia crassipes</i>	1700
	<i>Hydrilla</i>	1700
	<i>Typha latifolia</i>	1700-3400

SKIPPER

(Clodinafop - Propargyl 15% WP)



Specifications:

- It is a post emergence herbicide
- This herbicide is taken up through leaves of grassy weeds
- It ceases active growth of susceptible grasses within 48 hours of its application
- Decay of nodes and growing points is visible with young leaves showing chlorosis followed by necrosis
- It acts as a fatty acid inhibitor

Chemical Group: Aryloxyphenoxy propionate group of herbicide

Mode of Action: Systemic action

Compatibility: Not to be used with other herbicides

Availability: Skipper is available in 160 g pack containing 8 sachets of 20 g each

Herbicides

Crop	Weeds	Doses (g/acre)
Wheat	<i>Phalaris minor</i>	160

XENGA

(Pyrazosulfuron Ethyl 10% WP)



Specifications:

- It belongs to Sulfonylurea family of herbicide
- It is a broad spectrum, selective, systemic herbicide for Paddy
- It is an effective pre & early post-emergence herbicide which gives long duration of control
- It controls major broad leaf weeds and sedges
- It is absorbed mainly through root system and translocated in the plant
- It inhibits shoot growth, retards root development and immediately kills the weeds
- It has versatility of application - spraying or broadcasting

Chemical Group: Sulfonyl Urea

Mode of Action: ALS inhibitor

Phytotoxicity: No Phytotoxicity when applied as per the label recommendation

Availability: Xenga is available in 20 g & 80 g packaging

Herbicides

Crop	Weeds	Doses (g/acre)
Transplanted Rice	<i>Cyperus Iria</i> , <i>Cyperus difformis</i> , <i>Fimbristylis miliacea</i> , <i>Monochoria vaginalis</i> , <i>Ludwigia parviflora</i>	80

PGR



ARITHRI

Arithri is a Arbuscular Mycorrhizal Fungi contains of mainly **endo mycorrhizae** and fine fragment of fungal host filaments in **Wettable Powder** formulation



Unique Features

- Eight endomycorrhiza species involved
- Made as wettable powder formulation (1st in India)
- Uniform distribution of mycorrhizal spores in the carrier
- High loading of mycorrhizal spores through using AMF gel technical
- Mycorrhizal spores are loaded many fold far higher than FCO requirement
- Can be applied as suspended particles after the dispersal in water (through drip irrigation and soil drenching)
- On application excellent spreading of spores in the rhizosphere
- Hygroscopic nature helps mix very well with fertilizer and facilitates uniform broadcast
- Unique HYT by Agrinos USA

Soil Health:

- Improves soil build up
- Improves water holding capacity (WHC)
- Maintains soil PH in root zone
- Reduces soil erosion

Root Health:

- Enhances surface area of roots
- Increases absorption of soil nutrients
- Increases water absorption

Plant Health:

- Improves plant establishment, growth
- Reduces transplant shock
- Enhances flowering and fruiting
- Better yield
- Improves environmental stress tolerance

Crop	Target segment	Mode of Application	Doses (kg/acre)
Field Crops	Root growth, Crop nutrition	Basal application	4
Fruits & Horticultural crops	Tillering, Enhance Yield	Basal Application/Drip Irrigation	4-8
Potato & Sugarcane		Basal Application/Drip Irrigation	4-8

FANTAC PLUS



Specifications:

- It is a L-cysteine based plant growth regulator available in the market
- It is a combination of all essential amino acids and vitamins required for plant growth
- It helps in both vegetative and reproductive growth
- It helps to overcome stress conditions
- It helps in better flowering, fruit development and yield
- Depending upon specific requirement of the plant it supplies the essential amino acids
- Enhances stomatal growth & chlorophyll synthesis
- Promotes femaleness in dioecious flowers
- Ensures better fruit quality thus ensures better price

Chemical Group: Plant growth regulator

Compatibility: It is compatible with all the insecticides and fungicides available in the market

Availability: Fantac Plus is available in 25 ml, 50 ml, 100 ml, 250 ml, 500 ml, 1 litre and 5 litres pack

PGR

Crop	Doses (ml/acre)
Vegetables, Cucurbits, Potato	100-150
Horticultural Crops	100-150
Cash Crops	100-150
Cereals	100-150
Flowers	100-150



PLATINA

(Plant Biostimulant)

Specifications:

- It is a L-cysteine based plant growth regulator available in the market
- It is a combination of all essential amino acids and vitamins required for plant growth
- It helps in both vegetative and reproductive growth
- It helps to overcome stress conditions
- It helps in better flowering, fruit development and yield
- Depending upon specific requirement of the plant it supplies the essential amino acids
- Enhances stomatal growth & chlorophyll synthesis
- Promotes femaleness in dioecious flowers
- Ensures better fruit quality thus ensures better price

Chemical Group: Plant growth regulator

Compatibility: It is compatible with all the insecticides and fungicides available in the market

Availability: Platina is available in 100 ml, 250 ml, 500 ml & 1 litre packaging

PGR

Crop	Doses (ml/acre)
Vegetables, Cucurbits, Potato	100-150
Horticultural Crops	100-150
Cash Crops	100-150
Cereals	100-150
Flowers	100-150

Bio





Neemazal F[®]

(Azadirachtin 50000 ppm)

Product Features:

- Organic certified product by IMO control
- Azadirachtin product with 50000 ppm concentration registered under CIB & RC
- Approved with 2-year shelf under CIB & RC
- Translocate through both xylem & phloem which helps in managing both chewing & sucking pest
- Controls insect during all life stage such as egg, larva, pupa and adult
- Provides multiple mode of action such as antifeedant, repellent, insect growth regulator and ovipositional deterrent, etc.
- Product with good translocation activity and acropetal movement

For Best Results:

- Spray at first sight of insect-pest
- Ensure thorough spray across the field
- Give 2-3 repeated spray at 7-10 days interval
- Alternate with chemical pesticide in case of high pest incidence

Dosage: 1-2 ml/litre of water

Availability: Neemazal F is available in 100 ml, 250 ml, 500 ml, 1 litre & 5 litres packaging

BROAD SPECTRUM INSECTICIDE with following label recommendation

Crop	Pest	Doses (ml/acre)
Tea	Thrips, Red Spider Mite, Pink Mite, Caterpillars	80
Tobacco	Tobacco Caterpillar, Aphids	80
Rice	Stem Borer, Leaf Folder, BPH	80
Cotton	Leaf Hoppers, Heliothis, Aphids & Whiteflies	150
Cauliflower	DBM, Aphids, Spodoptera	80
Bhindi/ Okra	Whiteflies, Leaf Hopper, Aphids Pod Borer	80
Tomato	Whiteflies, Aphids, Fruit Borer	80
Grapes*	Thrips, Mites, Mealy Bug	

* Submitted for label expansion



Neemazal T/S[®]

(Azadirachtin 10000 ppm)

Product Features:

- Organic certified product by IMO control
- Azadirachtin product with 10000 ppm concentration registered under CIB & RC
- Approved with 2-year shelf under CIB & RC
- Helps in managing chewing / defoliating pests
- Product with good translaminar action
- Controls insect during all life stage such as egg, larva, pupa and adult
- Provides multiple mode of action such as antifeedant, repellent, insect growth regulator and ovipositional deterrent, etc.

For Best Results:

- Spray at first sight of insect-pest
- Ensure thorough spray across the field
- Give 2-3 repeated spray at 7-10 days interval
- Alternate with chemical pesticide in case of high pest incidence

Dosage: 3 ml/litre of water

Availability: Neemazal T/S is available in 100 ml, 250 ml, 500 ml, 1 litre, 5 litres, 10 litres, 20 litres, & 50 litres packaging

Bio

BROAD SPECTRUM INSECTICIDE with following label recommendation

Crop	Pest	Doses (ml/acre)
Tea	Thrips, Red Spider Mite	160-200
Rice*	Yellow Stem Borer, BPH, Leaf Folder	

* Submitted for label expansion



Parry Indika[®] (Azadirachtin 1500 ppm)

Product Features:

- Organic certified product by IMO control
- Azadirachtin product with 1500 concentration registered under CIB & RC
- Product produced from high quality neem seed which is free from impurities
- Helps in managing chewing/defoliating pests
- Product with good translaminar action
- Controls insect during all life stage such as egg, larva, pupa and adult
- Provides multiple mode of action such as antifeedant, repellent, insect growth regulator and ovipositional deterrent, etc.

For Best Results:

- Spray at first sight of insect-pest
- Ensure thorough spray across the field
- Give 2-3 repeated spray at 7-10 days interval
- Alternate with chemical pesticide in case of high pest incidence

Dosage: 5 ml/litre of water

Availability: Parry Indika is available in 100 ml, 250 ml, 500 ml, 1 litre, 5 litres & 10 litres packaging

BROAD SPECTRUM INSECTICIDE with following label recommendation

Crop	Pest	Doses (ml/acre)
Cotton	Bollworms & Whiteflies	1000-2000
Rice	Thrips, Stem Borer	600
	Leaf Folder	1000
	BPH	4000

AVANA[®]

(Azadirachtin 1500 ppm)



Product Features:

- Azadirachtin product with 1500 concentration registered under CIB & RC
- Patented granular azadirachtin product
- Helps in managing both the chewing and sucking pest
- Controls insect during all life stage such as egg, larva, pupa and adult
- Provides multiple mode of action such as antifeedant, repellent, insect growth regulator and ovipositional deterrent etc.
- Product with good translocation activity and slow-release technology

For Best Results:

- Apply as preventive measure
- Ensure thorough application
- Give 2-3 application at 7-15 days interval

Dosage: 5-10 kg/acre

Availability: Avana is available in 250 g, 500 g, 1 kg, 2 kg & 5 kg packaging

Bio

ABDA[®]

(Plant Vitalizer)

Product Features:

- A unique proprietary plant-based bio stimulant developed by Coromandel International Limited
- Helps in improving soil microflora and there by enhances the nutrition assimilation
- Helps in strengthening plant defence mechanism
- Improves the quality and quantity of the produce
- Increases the cost benefit ratio
- Approved by IMO control for organic cultivation

For Best Results:

- Apply immediately after ploughing or sowing
- Apply with basal fertilizer
- Apply early during top dressing/earthing up stages
- For tree crops do ring applications

Dosage: 4-8 kg/acre

Availability: ABDA is available in 1 kg, 4 kg & 10 kg packaging



Bio

ABDA Gold[®] (Plant Vitalizer)

Product Features:

- A unique proprietary plant-based bio stimulant developed by Coromandel International Limited
- Variant of ABDA enriched with organic humic and fulvic acids
- Helps in early crop establishment
- Strengthens plant defence mechanism
- Provides uniform vegetative growth & maturity
- Improves the quality and quantity of the produce
- Improves the economic yield of the crop

For Best Results:

- Apply immediately after ploughing or sowing
- Apply with basal fertilizer
- Apply early during top dressing/earthing up stages
- For tree crops, do ring applications

Dosage: 4-8 kg/acre

Availability: ABDA Gold is available in 1 kg, 4 kg & 10 kg packaging



Bio



ABDA Foliar[®] (Plant Vitalizer)

Product Features:

- A unique proprietary plant-based bio stimulant developed by Coromandel International Limited
- Specially designed for foliar application
- Produces balanced shoot and root ratio
- Increases the height of the crop
- Improves the economic yield of the crop
- Increases cost benefit ratio
- Approved organic product by IMO control

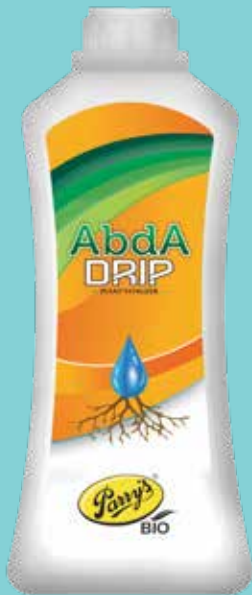
For Best Results:

- Ensure uniform spraying
- Apply during early vegetative stage and vegetative stage

Dosage: 2ml/litre of water

Availability: ABDA Foliar is available in 50 ml, 100 ml, 250 ml, 500 ml & 1 litre packaging

Bio



ABDA Drip® (Plant Vitalizer)

Product Features:

- A unique proprietary plant-based bio stimulant developed by Coromandel International Limited
- Specially designed for drip application
- Strengthens plant defence mechanism
- Ideal for high value vegetables and fruits
- Ideal for plantation crops
- Helps in increasing the reproductive growth
- Improves the economic yield of the crop

For Best Results:

- Ensure uniform spraying
- Apply during early vegetative stage and vegetative stage

Dosage: 2ml/litre of water

Availability: ABDA Drip is available in 100 ml, 250 ml, 500 ml, 1 litre & 5 litres packaging

Bio



PARRYNEEM®

(100% Pure Neem Cake)

Product Features:

- A wholesome Neem meal from Neem seed kernels with total quality control
- Parryneem is a clear, pure and hygienic product which acts as a soil conditioner
- Inhibits nitrification, reduces losses and thus makes more nitrogen available to the crops
- Excellent source of natural macro and micro-nutrient
- Provides natural protection to plants from the perils of soil dwelling insect-pests, diseases and nematodes
- Contains Azadirachtin and other limonoids from Neem, which protect plant roots and young plants from wide range of insects-pests due to antifeedant and repellent properties
- Improves yield & increases cost benefit ratio

Dosage: 150-200 kg/acre

Availability: Parryneem is available in 26 kg & 40 kg bags packaging



Bio



Spreadmax[®]

Product Features:

- A unique formulation containing natural ingredients, stabilizer and silicon based non-ionic surfactant
- Rapidly spreads on leaf surface providing wetting, sticking and rain fastening effects
- All-in-one bio-degradable adjuvant, spreader, synergist, penetrant, and rainfastener
- Reduces surface tension and ensure better area coverage (spreadability), adherence and penetration
- Enhances efficacy of insecticides, fungicides, herbicides, PGRs and foliar fertilizers
- Good spreading on leaf surface of crop health care products maximize efficacy and minimize pest and pathogen resistance tendencies
- Increases cost benefit ratio

Dosage: 0.25 ml-0.50 ml/litre

Availability: Spreadmax is available in 50 ml, 100 ml, 250 ml, 500 ml, 1 litre & 5 litres packaging

Bio





GUARD5

Product Features:

- Proprietary anti-transpirant product developed by the R&D centre of Coromandel International Limited
- GUARD5 is a non-film forming type of anti-stress product.
- Protects the crop from all abiotic stress such as high temperature, water deficit, frost and freeze, etc.
- Prevents the crop from excessive water loss through evapo transpiration
- Helps the crop in with standing the sudden climatic changes
- Helps in improving the photosynthetic activity
- Helps in extending the irrigation interval

Dosage: 3ml-5ml/litre of water

Availability: Guard5 is available in 50 ml, 100 ml, 250 ml, 500 ml, 1 litre & 5 litres packaging

Bio

Coromandel International Limited Presents **6 Blockbusters**



Beneficial insects



Crab Spider



Adult Robber Fly



European Honey Bee



Assassin Bug Nymph



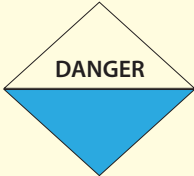



Adult Hover Fly



Adult Lady Bird Beetle

Classification of pesticides based on-active ingredient toxicity

Classification- of the Insecticides Test Animal	Warning Statement	LD50 mg/ Kg body weight		Colour of identification Band on the Label
		Acute Toxicity	Dermal Toxicity	
Extremely Toxic	Keep out of the reach of children. If swallowed or if symptoms of poisoning occur, call physician immediately	1-50	1-200	
Highly Toxic	Keep out of the reach of children	51-500	201-2000	
Moderately Toxic	Keep out of the reach of children	501-5000	2001-20000	
Slightly Toxic	Nil	> 5000	> 20000	

Formulation of Pesticides

Solids	Liquids	Others
BB: Block Bait	DC: Dispersible Concentrate	AE: Aerosol dispense
CB: Bait Concentrate	EC: Emulsifiable Concentrate	
CG: Encapsulated Granule	ES: Emulsion tor Seed Ireatment	
CS: Capsule Suspension	W: Emulsion, Oil in Water	
DP: Dustable Powder	FS: Suspension Concentrate for Seed Treatment	
DS: Powder for Dry Seed Treatment	OD:Oil based suspension	
GB: Granule Bait	SC: Suspension Concentrate	
GR: Granule	SE: Aqueous suspo-emulsions	
RB: Bait (Ready for use)	SL: Soluble Concentrate	
SG: Water Soluble Granule	OS:Oil Suspension	
WP: Wettable Powder		
SP: Water Soluble Powder		
WG:Water Dispersible Granules		
WS: Water Dispersible Powder for Slurry Seed Treatment		

Be Safe....



Wear Mask



1.Remove Disposable Gloves Safely

2.Wash Hand with Soap.



Wear
Proper
Kit

Compatibility Chart for Combination Sprays	Bordeaux mixture	Captan	Copper fixed	Carbaryl	Carbophenothion	Demeton	Demeton-methyl	Dicofol	Dichlorvos	Dicrotophos group	Dinocap	Dimethoate	Dithiocarbamates
Bordeaux mixture	-	N	Q	N	C	N	N	N	N	N	N	N	C
Captan	N	-	Q	C	C	Q	Q	C	C	C	Q	C	C
Copper fixed	Q	Q	-	N	C	C	C	C	C	C	N	C	Q
Carbaryl	N	C	N	-	C	C	C	C	N	N	C	C	C
Carbophenothion	C	C	C	C	-	C	C	C	C	C	N	C	C
Demeton	N	Q	C	C	C	-	-	C	C	Q	Q	C	C
Demeton-methyl	N	Q	C	C	C	-	-	C	C	C	Q	C	C
Dicofol	N	C	C	C	C	C	C	-	C	C	C	C	C
Dichlorvos	N	C	C	N	C	C	C	C	-	C	C	C	C
Dicrotophos group	N	C	C	N	C	C	C	C	C	-	C	C	C
Dinocap	N	Q	N	C	N	Q	C	C	C	C	-	C	Q
Dimethoate	N	C	C	C	C	C	Q	C	C	C	C	-	C
Dithiocarbamates	C	C	Q	C	C	C	C	C	C	C	Q	C	-
Endosulfan	N	C	-	-	Q	C	C	C	C	C	C	C	C
Fenitrothion	N	Q	C	C	C	C	C	C	C	C	C	C	C
Lime sulphur	N	N	N	N	Q	N	N	N	N	N	N	N	N
Malathion group	N	Q	C	C	C	C	C	C	C	C	Q	C	C
Oxydemeton methyl	N	C	-	C	-	C	C	C	C	C	C	C	C
Phosphamidon	N	C	C	C	C	C	C	C	C	C	C	Q	C
Phosalone	Q	C	C	C	C	C	C	C	C	C	C	C	C
Pyrethrine	N	C	C	C	C	C	C	C	C	C	C	C	C
Quinalphos	C	-	C	-	-	-	-	-	-	-	-	-	C
Sulphur wettable	C	Q	C	C	C	C	C	C	C	C	C	C	C
Streptomycin	N	C	C	C	C	C	C	N	C	C	C	C	C
Toxaphene	Q	C	C	C	C	C	C	C	C	C	C	C	Q
Urea	C	C	C	C	-	C	C	C	C	C	-	C	C
Zinc sulphate + lime	C	N	C	N	C	N	N	N	N	N	-	N	N
2,4-D	C	C	N	C	C	C	C	C	C	C	-	C	C
Lead arsenate	C	C	C	C	-	-	-	-	-	-	-	-	-
Dinitro compounds	C	C	C	-	-	-	-	-	-	-	-	-	-
Methyl parathion	N	C	C	C	-	-	-	C	-	-	-	C	-
Monocrotophos	N	C	C	C	-	-	-	-	-	-	-	-	C
Trichlorophon	N	-	Q	-	-	-	-	-	-	-	-	-	-
Aureofungin	N	-	-	-	-	-	-	-	-	-	-	-	C
Carbendazin	-	-	-	-	-	-	-	-	-	-	-	-	-

C = Compatible, - = Information not available, N = Not compatible and

	Endosulfan	Fenitrothion	Lime sulphur	Malathion group	Oxydemeton methyl	Phosphamidon	Phosalone	Pyrethrine	Quinalphos	Sulphur wettable	Streptomycin	Toxaphene	Urea	Zinc sulphate + lime	2,4-D	Lead arsenate	Dinitro compounds	Methyl parathion	Monocrotophos	Trichlorophon	Aureofungin	Carbendazin
N	C	Q	N	Q	C	C	Q	N	C	C	N	Q	C	C	C	C	C	N	N	N	N	
-	C	C	N	C	-	C	C	C	-	C	C	C	C	C	N	C	-	C	C	-	-	-
-	Q	C	Q	C	-	C	C	C	-	C	C	C	C	C	C	C	-	C	C	-	-	-
C	C	C	N	C	C	C	C	C	-	C	C	C	C	C	C	C	-	-	-	C	-	-
C	C	C	N	C	C	C	C	C	-	C	C	C	C	C	C	-	-	-	-	-	-	-
C	C	C	N	C	C	C	C	C	-	C	C	C	C	C	C	-	-	-	-	-	-	-
C	C	C	N	C	C	C	C	C	-	C	C	C	C	C	C	-	-	-	-	-	-	-
C	C	C	N	C	C	C	C	C	-	C	C	C	C	C	C	-	-	-	-	-	-	-
C	C	C	N	C	C	C	C	C	-	C	C	C	C	C	C	-	-	-	-	-	-	-
C	C	C	N	C	-	Q	C	C	-	C	C	C	-	C	C	-	-	C	C	-	C	-
-	C	C	N	C	C	C	C	C	-	C	C	C	-	C	C	-	-	-	C	-	-	-
C	-	C	N	C	C	C	C	C	-	C	C	C	-	C	-	-	Q	C	-	Q	-	-
N	N	-	-	N	N	N	Q	C	-	C	C	N	N	C	C	-	-	N	N	N	N	-
C	C	C	N	-	C	C	C	C	-	-	-	C	C	C	-	C	Q	C	-	Q	C	-
C	C	C	N	C	C	-	Q	C	-	C	C	C	-	-	-	-	C	C	-	-	-	-
C	C	Q	C	C	C	Q	-	Q	-	C	-	C	-	N	N	C	Q	C	C	-	-	-
-	C	C	-	-	C	C	C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C	C	C	C	-	-	C	C	C	-	-	C	C	C	C	C	-	C	-	-	-	-	-
C	C	C	N	C	C	C	C	C	-	C	C	-	C	N	C	-	-	-	-	-	-	-
-	C	N	C	-	-	-	-	N	-	C	-	C	C	C	C	-	-	-	-	-	-	-
-	N	C	Q	C	-	-	-	N	-	C	-	N	C	-	C	-	-	-	-	C	N	-
-	C	-	-	C	-	-	C	-	-	C	-	C	C	C	-	-	C	-	Q	Q	-	-
Q	-	-	C	Q	C	-	Q	-	-	C	-	-	-	-	-	C	-	C	C	Q	-	-
C	-	N	C	-	-	C	C	-	-	-	-	-	-	-	-	Q	C	-	-	-	-	C
Q	-	N	N	Q	-	-	-	-	-	-	-	-	-	-	-	-	Q	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	C	-	-	-	-	-	C

Q = Questionable. Compatibility may vary with solvents or emulsifying agents used.



TRANSFORMING AGRICULTURE. CHANGING LIVES.

For over five decades, we at Coromandel International Limited have been building viable crop solutions to make agriculture prosperous and sustainable.

We believe in harnessing the power of technology to harvest prosperity for our farmers. We are here to usher the next agri-renaissance.



FERTILISERS | SPECIALITY NUTRIENTS | CROP PROTECTION | RETAIL | BIO | ORGANIC

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