



IFFCO-MC Crop Science Private Ltd.

Incorporated on 28th August 2015, IFFCO-MC Crop Science Pvt. Ltd (IFFCO-MC) is a joint venture between Indian Farmers Fertiliser Cooperative Limited (IFFCO) and Mitsubishi Corporation, Japan.

Crop protection being a significant component of crop productivity management, educating farmers on use of right type of pesticide, right dosage, right method and right time of application has always been at the forefront of IFFCO-MC's endeavour. IFFCO-MC provides quality agrochemicals at a reasonable price to the farmers even in remote and far flung areas of the country.

IFFCO-MC products are sold at the price printed on the pack. This practice is transparent, farmer centric and unique in the Agrochemical industry which ensures availability of Agro-chemicals to farmers at fixed and right price.

IFFCO-MC products are available in Societies, Farmer Service Centers & IFFCO Bazar Outlets. These are also available online through IFFCO Bazar Portal at www.iffcobazar.in where one can order products without any delivery charges.

For the benefit of farmers, IFFCO-MC has a novel accidental insurance scheme named "Kisan Suraksha Bima Yojana". This scheme is unique in the agrochemical industry and provides free accidental insurance coverage to farmers in the event of loss of life or disability.

IFFCO-MC Crop Science



Our Vision & Mission

Vision:

"To enhance farmer income by providing good quality crop protection products at reasonable prices."

Mission:

- •To develop a channel for farmers to access genuine products and knowledge with focus on safety, health and environment.
- •To identify and provide new generation crop protection products for farmers.
- •To enrich knowledge base of employees and provide open and congenial work environment for their development.



IFFCO-MC Crop Science

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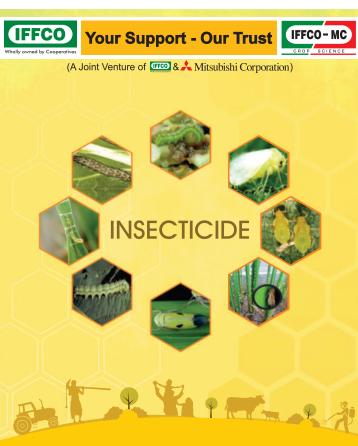
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INSECTICIDES



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(EMAMECTIN BENZOATE 5% SG)

STOMACH & CONTACT INSECTICIDE

- EGAO belongs to avermactin group of insecticides.
- EGAO is recommended on various crops for control of Caterpillars and Thrips.
- · EGAO is primarily a stomach insecticide also having trans-laminar movement. After ingestion and contact on insects stops feeding within 2 hours and dies after 2 to 4 days.
- EGAO enters nervous system and paralyze the insect body by muscles contractions. Insect dies due to paralysis and starvation
- **EGAO** is most effective as stomach poison hence proper spray coverage is must.
- EGAO is highly effective for controlling all stages of larva and on resistant pest species.















Packing: 10g, 50g, 100g, 250g, 500g, 1kg





EGAO

- EGAO is a water soluble granular insecticide formulation used at very low dose.
- EGAO is also compatible to all other insecticides.
 EGAO is very safe product for environment and beneficial insects.
- EGAO also having ovicidal action and best for the IPM practices.
- EGAO has strong translaminar action and has ability to kills hidden pest under surface of the leaves.

Application and Dosage Recommendations :					
		Dosag	e /Acre	Waiting	
Crop	Common Name of the Pest	Formulation (gm)	Dilution in water (liters)	Periods (in days)	
Grapes	Thrips	88	200-400	5	
Red gram	Pod borer	88	200-300	14	
Cotton	Bollworms	76-88	200	10	
Chickpea	Pod borer	88	200	14	
Tea	Tea looper	80	200	1	
Cabbage	Diamond back moth	60-80	200	3	
Brinjal	Fruit & Shoot Borer	80	200	3	
Okra	Fruit & Shoot Borer	54-68	200	5	
Chilli	Fruit borer, Thrips & Mites	80	200	3	



Diamond Back Moth



Bollworms



Helicoverpa Spodoptera Spp.



Spp.



Thrips



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HAMADA

(BIFENTHRIN 10% EC)

CONTACT AND STOMACH INSECTICIDE

- · HAMADA is belonging to new generation of Pyrethroid chemisty. It is a Type-1 pyrethroid.
- HAMADA recommended on Bollworm, Sucking pest and White fly in Cotton, Leaf folder, Green leaf hopper & Stem borer in Rice and Termite in Sugarcane.
- · HAMADA has strong contact and stomach action.
- · HAMADA act on nervous system of Insects inhibiting the chloline esterase enzymes resulting in immediate death of target pest.
- HAMADA provides longer persistence period of control against target insect pest.
- · HAMADA has Good compatibility with other insecticides and fungicides.









Packing: 250ml., 500ml., 1ltr.





HAMADA

- HAMADA has quick knock-down action.
- ✓ HAMADA is highly effective against a wide range of caterpillars and sucking insects.
- ✓ HAMADA is new generation of pyrethroid and possess better toxicological profile than conventional pyrethroid.
- ✓ HAMADA is moderate persistence with residual activity lasting 10-15 days after spraying.
- ✓ **HAMADA** is compatible with most of the insecticide and fungicide.

Application and Dosage Recommendations :					
		Dosag	ge /Acre	Waiting	
Crop	Common Name of the Pest	Formulation (ml)	Dilution in water (liters)	Periods (in days)	
COTTON	Bollworm, White Fly	320	200	15	
SUGARCANE	Termite	400	200	10 (Months)	
RICE	Stem borer, Leaf folder, Green leaf hopper	200	200	21	



Stem Borer Leaf Folder Bollworms







Termites



White Fly



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(CHLORPYRIFOS 50% EC)

CONTACT AND STOMACH ACTION INSECTICIDE

- HIBIKI belongs to organophosphorus chemical group.
- HIBIKI is recommended on wide range of crops for control of various pest.
- HIBIKI affects the nervous system by inhibiting the acetyl choline esterase (Ach) enzymes, causing immediate death of insects.
- HIBIKI has quick knockdown action having longer persistence on leaves and specifically effective on most of the larva and Termites.
- HIBIKI has good compatibility with most commonly used pesticides.



Packing: 250ml, 500ml, 1ltr





HIBIKI

- ✓ **HIBIKI** is broad spectrum insecticide with contact and stomach action.
- HIBIKI technical chlorpyrifos is used from last several decades but no resistance is reported.
- HIBIKI is highly cost effective insecticide with broad spectrum activity.
 HIBIKI can be used with other mode of action pesticides under IPM strategy.
- ✓ HIBIKI controls sucking, chewing, biting and boring insects in various
- ✓ HIBIKI is also used for the management of soil insects because of longer residual action.

Application and Dosage Recommendations :				
		Dosage /Acre		Waiting
Crop	Common Name of the Pest	Formulation (ml)	Dilution in water (liters)	Periods (in days)
COTTON	Bollworm	400 - 480	200 - 400	30



Stem Borer



Leaf Folder



Bollworms



Termites



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HIMAWARI

(PROFENOFOS 40% + CYPERMETHRIN 4% E.C)

A CONTACT AND STOMACH INSECTICIDE

- · HIMAWARI is a Synergistic combination of Organophosphorus and Synthetic pyrethroid group of Insecticide.
- HIMAWARI is recommended on Cotton Bollworm complex.
- · HIMAWARI is a strong contact and stomach Insecticide having quick knockdown effect. It is also having acaricide action.
- · HIMAWARI act on Insect nervous system, inhibiting Acetyl Choline esterase enzymes.
- HIMAWARI is applied at early stage of Insect, It can also control grown up larvae, if resistance is not an issue.
- · HIMAWARI is economical to use and having long lasting control on insects







Packing: 100ml, 250ml, 500ml, 1ltr, 5ltr





HIMAWARI

- HIMAWARI has longer residual action and kills pest under continuous attack.
- ✓ **HIMAWARI** is a good tool for hard to kill bollworm pests.
- HIMAWARI is not effective if caterpillar enters into cotton bolls hence should be sprayed at early Instar stage but for external feeder it can be applied at any crop stage.

Application and Dosage Recommendations :				
		Dosag	e /Acre	Waiting
Crop	Common Name of the Pest	Formulation (ml)	Dilution in water (liters)	Periods (in days)
COTTON	BOLLWORM	400-600	200-400	14

Cotton Bollworms















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ISOGASHI

(IMIDACLOPRID 17.8% SL)

SYSTEMIC INSECTICIDE FOR SUCKING PEST

- ISOGASHI belongs to Neonicotinoid (ANI) group of insecticide.
- **ISOGASHI** is recommended on wide variety of crops and insects as per the details given in table.
- ISOGASHI is highly systemic insecticide quickly absorbed by plants with good xylem mobility.
- ISOGASHI inhibits the growth of insects and acts on nicotinic receptor site off nervous system.
- ISOGASHI is used at lower dosage, hence safer to environment.
- ISOGASHI can be applied at any crop stage but the leaves should be green and succulent for better efficacy.















ISOGASHI

- ISOGASHI is selective and have quick knock-down action.
- ISOGASHI can be used as a foliar spray and soil application.
- ISOGASHI has good compatibility with commonly used agro-chemicals.
- ISOGASHI is used at lower dosage, hence safer to the environment.
- **ISOGASHI** is still a highly effective insecticide and till date no resistence is developed against it.
- ISOGASHI has a longer residual action and control repeated pest attacks.

Application and Dosage Recommendations :				
		Dosa	Waiting	
Crop	Names of Pests	Formulation (ml)	Dilution in water (litres)	Periods (in days)
Grapes	Flea beetle	120 - 160	400	32
Mango	Hopper	2 - 4 ml / tree	10	45
Cotton	Aphid, White fly, Jassid & Thrips	40 - 50	200 - 280	40
Sugarcane	Termite	140	750	45
Tomato	White fly	60 - 70	200	3
Paddy	BPH, WBPH & GLH	40 - 50	200 - 280	40
Citrus	Leaf Miner & Psylla	2 - 4 ml / tree	-	15
Okra	Aphid, Jassid & Thrips	20	200	3
Chilli	Aphid, Jassid & Thrips	50 - 100	200 - 280	40
Groundnut	Aphid & Jassid	40 - 100	200	40
Sunflower	Jassid, Thrips & White fly	40	200	30









Aphids

Jassids

Thrips

BPH



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KAITAKU

(ACETAMIPRID 20% SP)

SYSTEMIC AND TRANSLAMINAR INSECTICIDE

- KAITAKU belong to Neonicotinoide group of insecticide.
- KAITAKU Is recommended on Chilli, Okra, Cotton and Cabbage for Sucking pests and specifically on White fly.
- KAITAKU Blocks insect nervous system on nicotine receptor site and inhibits the acetylcholine transmission results in insect paralysis and eventual death.
- KAITAKU is a novel insecticide with triple action-ovicidal, nymphicidal & adulticide activity. It provides protection for longer duration.
- KAITAKU has quick-knock down action, there by prevents the further damage immediately.
- KAITAKU Provides effcient protection on both sides of leaves due to systemic and translaminar action.











Packing: 100g, 250g, 500g





KAITAKU[™]

- KAITAKU is specifically effective on adult insects feeding on top leaves of plant it should be sprayed when leaves are green and succulent in nature.
- KAITAKU also control pyrethroid resistant pests by attacking on different site of nervous system.
- KAITAKU has good compatibility with most commonly used pesticides.
- ✓ KAITAKU requires better coverage both upper an under side of the leaves.
- KAITAKU can be used alternatively with insect growth regulator (Nymphicide) and other chitin inhibitors to break the resistance of white fly.

Application and Dosage Recommendations:

		Dosa	Waiting	
Crop	Names of Pests	Formulation (gm)	Dilution in water (litres)	Periods (in days)
Cotton	White fly	40	200 -240	15
Cotton	Jassids & Aphids	20	200 -240	15
Paddy	Brown Plant Hopper	20-40	200 -240	7
Chilli	Thrips	20-40	200 -240	3
Cabbage	Aphids	30	200-240	7
Okra	Aphids	30	200-240	3

Aphids





Jassids



White fly





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KATSU[™]

(CARTAP HYDROCHLORIDE 4% GR)

SYSTEMIC INSECTICIDE WITH STOMACH AND CONTACT ACTION

- · KATSU belongs to Nereistoxin analogue chemical group.
- · KATSU is recommended on Paddy on Leaf folder, Stem borer & Whorl maggot.
- KATSU controls sucking and biting insects by stomach and contact action. It controls the hidden caterpillars like Stem borer and leaf folder due to its strong systemic action.
- . KATSU act on nervous system of the Insects.
- KATSU is applied at early stages of the crop.
- KATSU has longer persistent efficacy.



Packing: 1kg, 5kg





KATSU[™]

- ✓ KATSU is highly cost effective for Paddy pest and so far no resistance is reported against it.
- ✓ **KATSU** is having long persistence in irrigated paddy field.
- KATSU causes paralysis of central nervous system, affected insects discontinue feeding and die of starvation.
- ✓ **KATSU** is non toxic to mammals and predators.

	Application a	and Dosage Red	commendation	ıs :		
			Dosage/Acre	Waiting		
Crop	Crop	Names of Pests	Formulation (Kg)	Periods (in days)	Remarks	
		Stem borer	7.5	-	3 applications at 15 days	
	Paddy	Leaf folder	7.5 - 10	-	interval from 10 days after	
		Whorl maggot	7.5 - 10	-	transplanting	



Stem borer



Leaf folder



Whorl maggot



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KOMUGI

(PYRIPROXYFEN 10% EC)

SYSTEMIC INSECT GROWTH REGULATOR A JUVENILE HARMONE ANALOGUE

- KOMUGI is IGR belongs to Pyridine group of insecticide.
- **KOMUGI** is recommended for control of sucking pest like White Fly, Aphids on Cotton and Chilli crops.
- KOMUGI is selective Insect growth regulator having Stomach, Contact and Translaminar action.
- KOMUGI acts on multipoint of Insect life cycle, preventing Whitefly emergence from egg or interfere the Whitefly development and reproduction. It also make female sterile.
- **KOMUGI** requires thorough coverage of foliage. It should be applied at the start of Whitefly incidence.
- **KOMUGI** is effective tool in resistance management strategy.
- **KOMUGI** is a slow acting insecticide but if sprayed correctly, its effect is dramatic and long lasting. It is not having a knockdown effect on insects but is a population disruptor, reduces adult / nymph's number drastically in the field.







Packing: 100ml, 250ml, 500ml, 1ltr





KOMUGI

- ✓ **KOMUGI's** active ingredient "Pyriproxifen" is most popular molecule used worldwide for management of Whitefly.
- KOMUGI is affected nymph inhabit to develop normally and does not moult properly.
- KOMUGI is highly selective insecticide it doesn't kill beneficial and predatory insects.
- ✓ **KOMUGI** is having low toxicity and does not possess any threat to environment pollution.
- ✓ **KOMUGI** is ideal for Integrated Pest Management.
- KOMUGI application should be done with fine spray and should cover both inside and upside of the leaf as well as lower, middle and upper portion of plant.

Application and Dosage Recommendations :

	_			
		Dosage / Acre		
Crop	Pest Name	Formulation (ml)	Dilution in water (liters)	Waiting Periods (in days)
Cotton	Whitefly	200	200	50
Chilli	Whitefly, Aphids	200	200	7









White fly







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KUSA KING

(PROFENOPHOS 50% EC)

BROAD SPECTRUM CONTACT AND STOMACH INSECTICIDE

- KUSA KING belongs to Organophosphorus group of insecticide.
- KUSA KING is recommended on Cotton and Soybean crops for the control of Caterpillars and Sucking pests.
- KUSA KING has a contact action and remains on leaf surface for long time. It has quick knock-down action.
- . KUSA KING is a nerve poison and inhibits the acetyl choline esterase enzymes.
- **KUSA KING** is applied at early instars for control of bollworms.
- KUSA KING is also having ovicidal action. It is also moderately effective on mites.







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Packing: 100ml, 250ml, 500ml, 1ltr





KUSA KING

- KUSA KING has one of the most trusted molecule giving successful management of Insect pests for the last two decades.
- ✓ KUSA KING is used when you have pest complex having different pest attacking at same time.
- KUSA KING can be mixed with other pesticides to have enhanced pest efficacy.
- ✓ **KUSA KING** is also effective on all stages of pests and it can penetrate top layers of eggs too.

Application and Dosage Recommendations :

		Dosage / Acre		Waiting
Crop	Common Name of the Pest	Formulation (ml)	Dilution in water (liters)	Periods (in days)
	Bollworms	600-800	200-400	
COTTON	Aphids, Jassids, White flies, Thrips	400	200-400	15
SOYBEAN	Semilooper, Girdle beetle	400	200	40



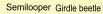


Aphid



White Fly Jassid







Thrips







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MAINICHI

(PROPARGITE 57% EC)

ACARICIDE / MITICIDE WITH CONTACT AND FUMIGANT ACTION

- MAINICHI belongs to Sulfite Ester group Chemistry.
- MAINICHI is very effective on crop damaging mites, such as red spider mite, two spotted mites, Europhid mite and yellow mite.
- MAINICHI acts primarily by contact, residual contact and fumigant action.
- MAINICHI controls all the stages of mite including motile stage.
- MAINICHI gives long duration of control and remains effective even at higher temperatures.















MAINICHI[™]

- MAINICHI interferes with the key mite enzyme systems, which causes interruption of normal metabolism, respiration and electron transport functions in the nervous system of mites.
- ✓ **MAINICHI** kills the even the newly hatched nymphs from eggs, due to its residual action.
- ✓ Female mites stop laying eggs upon coming in contact with MAINICHI applied area.

Application and Dosage Recommendations :					
	Common Name	Dosag			
Crop	of the Pesticide	Formulation (ml)	Dilution of water (liters)	Waiting Period (in days)	
Chilli	Mite	600	200-250	7	
Tea	Red Spider mite	300-500	160	7	
Apple	European Red Mite Two Spotted Mite	5-10 ml/tree	10 lit/tree	9	
Brinjal	Two Spotted spider mite (Tetranychusurticae)	400	160	6	









Yellow Mite

Two Spotted Mite

Purple Mite 20



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(DINOTEFURAN 20 % SG)

SYSTEMIC AND CONTACT INSECTICIDE

- SENPAI belongs to third generation neonicotinoid chemistry.
- SENPAI is a systemic and translaminar insecticide, quickly absorbed by the plants, effectively kills the targeted pests impacting the insect nerve system.
- · SENPAI is having quick knock down effect and persistent action, resulting in longer and effective control on insects.







SENPAI

- ✓ SENPAI is very effective on sucking pest and suitable for Insect Resistance Management (IRM).
- SENPAI does not exhibit any kind of phytotoxicity and low toxic to mammals, birds and aquatic organism due to its low dosage of application.
- ✓ **SENPAI** improves quality and quantity of the produce.
- SENPAI is compatible with commonly used pesticide.
- SENPAI is ideal for rainy season also it is quickly absorbed by the plants and rain fastness is only 3 hours.

Application and Dosage Recommendations: Dosage / Acre Waiting Common Name Crop Periods Formulation Dilution in of the Pest (in days) (g) water (liters) Aphids, Jassids, 50 - 60 200 15 COTTON Thrips and White Fly **Brown Plant Hopper** RICE 60 - 80 200 21



WBPH



Brown Plant Hopper



Jassid



Thrips



Aphid



White fly

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SHINZEN

(FIPRONIL 0.3% GR)

SYSTEMIC AND CONTACT INSECTICIDE

- SHINZEN belongs to phenylpyrazole group of insecticide.
- · SHINZEN is redcommended on Paddy, Wheat, and Sugarcane on stem borer, leaf folder, termites and borers.
- SHINZEN disrupt the nervous system of insect by blocking GABA-gated chloride channel and cause hyper excitation of insect nerves and muscles.
- SHINZEN is highly systemic and can be taken up by roots as well as leaves. It moves acropetally through xylem and kills the hidden borers inside the
- SHINZEN is applied after transplanting of paddy or on other crops at early stages as root application.



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Packing: 1kg, 5kg





SHINZEN

- ✓ SHINZEN has longer and persistant in irrigated condition and a good replacement of phorate carbofuron.
- ✓ SHINZEN is effective for the insects resistant or tolerant to pyrethroid and other insecticides.
- SHINZEN has phytotonic effect impacting crop health.
 SHINZEN is effective for the insects which are resistant to other insecticides.
- SHINZEN has good soil and water mobility leading to longer persistent efficacy.

Application and	Dosage Red	commendations:
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	Names of Pests	Dosage/Acre	Waiting Periods (in days)	
Crop		Formulation (Kg)		
Sugarcane	Root borer, Early shoot borer	10 - 13	9 months	
Paddy	Green leaf hopper, Brown plant hopper, Stem borer, Rice leaf folder, Rice Gall Midge, White backed plant hopper, Whorl maggot	6.67 - 10	32	
Wheat	Termites	8	91	







Stem borer in paddy

Stem borer in Sugarcane

Termites

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SHINZEN PLUS

(FIPRONIL 5% SC)

A SYSTEMIC INSECTICIDE WITH CONTACT AND STOMACH ACTION

- SHINZEN PLUS belongs to phenylpyrazole group of insecticides.
- · SHINZEN PLUS is recommended on paddy, cotton, chilli, Cabbage and Sugarcane crop on sucking and chewing pests as per recommendation in leaflets.
- SHINZEN PLUS act on insect nerve system at GABA chloride channel.
- SHINZEN PLUS is highly systemic insecticide quickly absorb through roots and foliage of the crop. It is highly effective at low dosages.
- . SHINZEN PLUS is highly systemic in nature, It controls paddy stem borer & leaf folder which are hidden inside the plant.
- . SHINZEN PLUS has good phyto-tonic effect on plant, it helps in keeping plant green, increase height and better growth of flower and fruits.















SHINZEN PLUS

- SHINZEN PLUS is ideal insecticide under Integrated Pest Management program.
- SHINZEN PLUS does not have rapid knock down effect but insects stop feeding immediately after application and die within 2-3 days.
- SHINZEN PLUS improves the yield and quality of farm produce due to its PGR effect.
- SHINZEN PLUS as spray has excellent residual control on continuous pest attack.

Application and Dosage Recommendations :				
Crop	Common Name of the Pest	Dosag	Waiting	
		Formulation (ml)	Dilution in water (liters)	Periods (in days)
CABBAGE	Diamond Back Moth	320-400	200	7
CHILLI	Thrips, Aphid, Fruit borer	320-400	200	7
RICE	Stem borer, leaf folder, Rice gall midge, Whorl maggot, White backed plant hopper, Brown plant hopper, Green leaf hopper	400-600	200	32
SUGARCANE	Root borer, Early shoot borer	600-800	200	9 Months
COTTON	Aphids, Jassids, Thrips, Whitefly	600-800	200	6
COTTON	Boll Worm	800	200	6

Thrips



Leaf folder



Sugarcane Root Borer Early Shoot Borer









Bollworm







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SHIRASAGI"

(FIPRONIL 40% + IMIDACLOPRID 40% WG)

SYSTEMIC AND CONTACT **INSECTICIDE FOR SOIL INSECTS**

- SHIRASAGI is a combination product of two chemical group Phenylpyrazole (Fipronil) and Neonicotinoid (Imidacloprid).
- · SHIRASAGI's dual mode of action against pests ensures effective control of the pest.
- SHIRASAGI acts on Nerve System of the insect. by blocking GABA-gated chloride channel and at nicotine receptor site cause hyper excitation of insect nerves and muscles.
- · SHIRASAGI is recommended on soil insects of sugarcane, white grub. It can be appplied at any stage as soil drench



Packing: 40g, 100, 250g, 500g





SHIRASAGI

- SHIRASAGI has better Phytotonic effect leads to better root and shoot growth, results in better yield in terms of quantity and quality.
- SHIRASAGI provides longer and persistant control of insects. It can control repeated attack of white grub due to its strong affinity with soil particles.
- ✓ SHIRASAGI is good on all types of soil like sandy to clayey and even in all type of climatic conditions.
- ✓ **SHIRASAGI** is effectively used in Insect Resistance Management.
- SHIRASAGI has a strong toxicological profile and should be used with proper safety measures while mixing and spraying.

	Application	Application and Dosage Recommendations :			
	Crop	Common Name of the Pest	Dosage / Acre		Waiting
			Formulation (gm)	Dilution in water (liters)	Periods (in days)
	Sugarcane	White grubs (Holotrichia consanguinea)	175-200	400-500	296









SHOKU

(DIAFENTHIUNRON 50% WP)

SYSTEMIC AND CONTACT INSECTICIDE

- SHOKU belongs to thiourea group of insecticide.
- SHOKU is recommended on several crops like Cotton, Chilli, Brinjal, Cardamom and Cabbage crops for control of White fly, Aphids, DBM, Mites etc.
- SHOKU degrades into a urea derivative resulting in a phytotonic effect, enabling the plant to overcome the damage caused due to insect pest infestation.
- SHOKU is an unique insecticide to control both adult and nymphal stages of wide range of insect pests.











Packing: 25g, 250g, 500g





SHOKU

- SHOKU belongs to a Thioureas unique chemical group allowing control of insects and mites resistant to major chemical classes such as Organophosphates or Pyrethroids.
- ✓ SHOKU has strong translaminar action efficiently controls the pest which is even underside of the leaf and hidden sucking pest.
- SHOKU paralyze insects immediately after coming in contact. Insects stops feeding but dies after 3-4 days.
- ✓ SHOKU is safer for beneficial insects & most suitable for integrated pest management.

Application and Dosage Recommendations: Dosage/Acre Waiting Crop Names of Pests Periods Formulation Dilution in (in days) (g) water (litres) Whiteflies, Aphids, 200-400 240 21 Cotton Thrips, Jassids Diamond Back Moth 240 200-300 7 Cabbage Mites 3 240 200-300 Chilli Brinjal Whitefly 240 200-300 3 320 400 7 Thrips, Capsule borer Cardamom 2 g/ltr. 2 - 3 ltr/tree Citrus Mites 30









Aphids

Mites

White fly

DBM

30







(THIAMETHOXAM 25% WG)

SYSTEMIC INSECTICIDE FOR SUCKING PEST

- TAIYO belongs to Neonicotinoide group of insecticide.
- TAIYO is recommended on several crops on wide variety of insect pests listed on table.
- TAIYO blocks insect nervous system on nicotine receptor site and inhibits the acetylcholine transmission results in insect paralysis and eventual death.
- TAIYO provides excellent, fast acting and long lasting control for sucking
- TAIYO is flexible to be used as foliar spray, soil application and drenching.



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Packing: 100g, 250g, 500g





TAIYO[®]

- ✓ TAIYO is rapidly taken up by the plants.
- ✓ TAIYO is very effective against the sucking insect pests in many crops.
- ✓ TAIYO has good compatibility with commonly used insecticides and fungicides.

Application and Dosage Recommendations :				
		Dosag	e/Acre	Waiting
Crop	Names of Pests	Formulation (gm)	Dilution in water (litres)	Periods (in days)
Rice	Stem borer, Gall midge, Leaf folder, BPH, WBPH,GLH&Thrips	40	200 - 300	14
Rice (Nursery)	Whorl Maggot	800	100 ml/g	86
Mango	Hoppers	40	400	30
Potato	Aphids	40 (foliar spray) 80 (soil drenching)	200 200	77
Cotton	Jassids & Aphids	40	200 - 300	21
Cotton	White fly	80	200 - 300	21
Wheat	Aphids	20	200	21
Cumin	Aphids	40	200	15
Tomato	White fly	80 (foliar spray) 160 (soil drenching)	200	5
Citrus	Psylla	40	400	20
Brinjal	White fly & Jassids	80	200	3
Okra	Jassids, Aphids, White fly	40	200 - 400	5
Mustard	Aphids	20 - 40	200 - 400	21













TOMODACHI

(ACEPHATE 75% SP)

SYSTEMIC INSECTICIDE WITH CONTACT AND STOMACH ACTION

- TOMODACHI belongs to organophosphorus group of insecticide.
- · TOMODACHI is recommended on several crops like Cotton, Saflower and Paddy.
- · TOMODACHI affects the insect nervous system by blocking the acetylcholinestrace enzymes thus immediately killing of insects.
- · TOMODACHI controls sucking and biting insects by contact and systemic action.
- TOMODACHI fast action on target insects due to it's rapid absorption.
- TOMODACHI good compatibility with commonly used insecticides and fungicides.



33





Packing: 250g, 500g, 1kg





TOMODACHI

- TOMODACHI is highly effective systemic insecticide with contact action.
- ✓ TOMODACHI moves rapidly through xylem vessels and reach entire plant with the water movement.
- TOMODACHI Moderate persistence with residual activity lasting 10-15 days after spraying.
- ✓ TOMODACHI is having a good compatibility with synthetic and other organophosphorus group of insecticide giving wide range of insect pest coverage. It ultimately break down to phosphorus compound and gives lush green appearance on leaves.

Application and Dosage Recommendations :					
		Dosag	Waiting		
Crop	Names of Pests	Formulation (gm)	Dilution in water (litres)	Periods (in days)	
Cotton	Bollworms	312	200 - 400	15	
Collon	Jassids	156	200 - 400	15	
Safflower	Aphids	312	200 - 400	15	
Paddy	Stem borer, Leaf folder, BPH & GLH	265 - 400	120 - 200	15	









Bollworm

Aphids

Jassid

BPH

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YUJO

(CHLORPYRIFOS 50%+CYPERMETHRIN 5% EC)

SYSTEMIC AND CONTACT INSECTICIDE

- YUJO belongs to combination of organophosphorus and synthetic pyrithroide group of insecticide.
- YUJO is recommended on several crops and controls specifically grown up voracious feeding larvae need immediate control.
- · YUJO has strong effect on insect nervous system and has ability to penetrate the thick wall of larva made up of waxes and lipids etc. the quick penetrability makes it most popular insecticide against grown up larvae.
- · YUJO due to higher persistence on leaf surface, effective for longer duration.











YUJO

- ✓ YUJO has a very long persistance on leaf but care should be taken that crop should not be under water stress and should have good succulent leaves.
- ✓ YUJO also gives effective control of sucking pest in various crops hence can be used under multiple pest attack situation.
- ✓ YUJO is an economical combination product.

Application and Dosage Recommendations :			
		Dosage/	

		Dosage/Acre		Waiting	
Crop	Names of Pests	Formulation (ml)	Dilution in water (litres)	Periods (in days)	
Cotton	Aphids, Jassids, Thrips, Whitefly, Spotted bollworm, Pink Bollworm, American bollworm, Spodoptera litura	400	200 - 400	15	
Rice	Stem borer & Leaf folder	250 - 300	200 - 280	15	









Stem borer

Spodoptera

Leaf folder

Bollworm







(BUPROFEZIN 25% SC)

CONTACT AND STOMACH INSECTICIDE

- YUKATA belongs to thiadiazine group of insecticide.
- YUKATA is recommended on Cotton, Chilli, Mango and Rice on Hoppers, White fly and other Sucking pests.
- YUKATA is an insect growth regulator which inhibits chitin synthesis. It lethally inhibits larval moulting suppresses oviposition and reduces egg viability
- YUKATA controls nymphal stages of sucking pests it being a contact Insecticide, proper coverage is a essential for best control.







Packing: 250ml, 500ml, 1ltr





YUKATA

- YUKATA kills nymph within 3-5 days of application as they cannot feed in treated areas.
- ✓ YUKATA has no resurgence effect and should be appplied in alternatively with other group of insecticide.
- ✓ YUKATA has good compatibility with commonly used insecticides and fungicides.
- ✓ YUKATA affects the chitin synthesis which is essential part of skin formation in insect however it is safe for human being but care should be taken to avoid spraying near the aquatic animal rearing sites.

Application and Dosage Recommendations: Dosage/Acre Waiting Crop Names of Pests Periods Formulation Dilution in (in days) (ml) water (litres) White Fly, Aphids, 400 20 Cotton 200 - 300 Jassids, Thrips 5 Chillies Yellow Mite 120 - 240 200 - 300 5-15 litre 1-2 ml/litre Mango Hoppers 20 of water per tree Mealy bugs

400 - 600

320



BPH, GLH, WBPH

Grapes

Rice

Aphid



Mealy bug



Mango Hopper



Yellow mites



7

20

200 - 400

160 - 200

White fly



BPH



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YURI

(LAMBDA CYHALOTHRIN 4.9% CS)

CONTACT & STOMACH INSECTICIDE

- · YURI belongs to Synthetic Pyrithroid group of Insecticide.
- YURI is recommended on several crops like, Paddy, Cotton, Vegetables and Grapes for control of Lepidopteran pests and Thrips.
- YURI has a quick knock-down and repellency effect through contact, residual and stomach activity and therefore stopping pest damage to crops immediately.
- YURI is third generation synthetic pyrithroid insecticide act on Insect Nervous system and inhibit acetyl choline esterase enzymes.
- YURI can be applied as a foliar spray using most types of spraying equipment.
 Application should be made when pests first appear and repeat after 7 days depending upon infestation.
- YURI is best formulation having micro capsule technology, ideally suited for long lasting pest management strategy.













39 Packing: 100ml, 250ml, 500ml, 1ltr





YURI

- ✓ YURI is latest discovery of third category of synthetic pyrithroid made up of single powerful isomer.
- ✓ YURI has capacity to remain effective on leaf surface for longer time than other synthetic pyrithroids. It has capacity to remain on even hard surface like stem and petiole.
- ✓ YURI also repel the insect to feeding site. It should be used on same day when the spray solution is made. Keeping it longer for more than a day will disintegrate capsule.
- ✓ YURI can be tank mixed with commonly known pesticides.

Application and Dosage Recommendations:

Appreciation and Dosage Recommendations (
		Dosag	Waiting		
Crop	Common Name of the Pest	Formulation (ml)	Dilution in water (liters)	Periods (in days)	
Cotton	Boll Worm	200	200	21	
Paddy	Stem borer & Leaf Folder	100	200	15	
Brinjal	Shoot & Fruit borer	120	200	5	
Okra	Fruit Borer	120	200	5	
Tomato	Fruit Borer	120	200	5	
Grapes	Thrips & Flea Beetle	100	200-400	7	
Chilli	Thrips & Pod Borer	200	200	5	
Soybean	Stemfly & Semilooper	120	200	31	

Paddy Stem Borer and Paddy Leaf Folder



Brinjal Fruit and Shoot borer



Soybean Stem fly



Chilli Fruit borer Cotton Bollworm











IRUKA

(THIAMETHOXAM (12.6%)+ LAMBDACYHALOTHRIN (9.5%ZC))















Packing: 80ml., 200ml., 500ml.





IRUKA

DESCRIPTION

 ${\bf IRUKA}$ belongs to neonicotinoid & pyrethroid group insecticides. Offered Thiamethoxam 12.6% + Lambda Cyhalothrin 9.5% ZC exhibits good crop outlook and better greening with more branches and flower initiation.

MODE OF ACTION:

IRUKA has irreversible blockage of postsynaptic nicotinic acetylcholine receptors leads to the hyper excitation of the nerves. Hyperexcitation followed by convulsions and eventual paralysis of the insects. This results in the death of insects.

KEY FEATURES:

- IRUKA having quick stomach and contact activity.
- IRUKA evident results in treated crops with more greenness & branching.
- IRUKA has excellent rain fastness.
- **IRUKA** absorbed rapidly by the roots and foliage and translocated acropetally in the Xylem.
- IRUKA gives quick knockdown and long residual control.
- IRUKA protect crop from viral disease by controlling insects which act as a vector.

Application :	and Dosage	Recommendations:
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	Communa Nama	Dosag	Waiting	
Crop	Common Name of the Pest	Formulation (ml)	Dilution in water (liters)	Periods (in days)
Cotton	Aphids, Thrips, Jassids, Ballworms	80	200	26
Maize	Aphids,Shootfly, Stem borer	50	200	01
Groundnut	Leaf hopper, Leaf eating caterpillar	50	200	05
Soyabean	Stem fly, Semilooper, Girdle beetal	50	200	42
Chilli	Thrips, Fruit borer	60	200	03
Tea	Thrips, Semilooper, Tea mosquito bug	60	200	28
Tomato	Thrips, Whitefly, Fruit borer	50	200	48













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KONATSU

(SPINETORAM 11.7% SC)

"The enemy of insects, crops are subheshu, remember the name is konatsu"

Konatsu: It is a green level insecticide. Meaning there is no harm to the environment and friendly insects by using it.

Konatsu: It is a versatile insecticide that provides long-term control of pests in a variety of crops.

Konatsu: It gives protection from all types of caterpillars and thrips.

Konatsu: Blocks the nervous system of the insect, which leads to the death of the insect.



Packing: 20ml., 100ml., 180ml.





KONATSU[™]

Application and Dosage Recommendations :				
Common Norma		Dosag	Waiting	
Crop	Crop Common Name of the Pest Fo		Dilution in water (liters)	Periods (in days)
	Thrips	168	200-400	30
Cotton	Spotted bollworm & Tobacco caterpillar	168-188	200-400	30
	Pink bollworm	180	200	30
Soyabean	Tobacco caterpillar	180	200-500	30
Chilli	Thrips,Fruit borer & Tobacco caterpillar	180-200	160-200	7
Okra	Fruit borer & Shoot and fruitborer	150-180	200-400	3
Brinjal	Shoot ald frlit borer	150-180	200-400	3
Chickpea	Pod borer	150-180	200	20
Redgram	Pod borer	150-180	200	23
Grapes	Thrips	120	200-400	5
Rice	Yellorv stem borer & Leaf folder	140-150	200	20
Tomato	Fruit borer, Tobacco caterpillar, Leaf miner, Tomato Pinworm	150-180	200	3







Packing: 120g , 250g , 500g , 1kg





SURUGA

- SURUGA A highly effective insecticide, which is helpful in the control of WBPH BPH (Brown lichen) in Paddy
- **SURUGA** Immediately after spraying the WBPH BPH (Brown tallow) stops eating.
- **SURUGA** kits stop laying eggs in which the next generation is not able to form.
- SURUGA With less quantity it gives complete control over the kit.

Application and Dosage Recommendations :					
	Communication Name	Dosag	Waiting		
Crop	Common Name of the Pest	Formulation (gm)		Periods	
Paddy	Brown plant hopper	120	200	19	











TAKIBI®

(Flubendiamide 20% WG)

- Takibi- Flubendiamide 20% is a water soluble granular insecticide
- Takibi- is used to control stemborer and leaf roller caterpillar in paddy crop, american bollworm in cotton, podborer in pulses, diamond back moth in cabbage, fruit borer in tomato
- Takibi-is a new generation Di-amide compound which is safe for humans and the environment



Packing: 25g, 100g, 250g, 500g





TAKIBI®

- ✓ Broad Spectrum-Controls different types of caterpillars.
- Fast and effective control of loss inflicting stages of larvae and caterpillars,
- The inset stops damaging the crop just after the product application.
- Provides prolonged control of target insecthence it is costeconomical.
- safe for plants, applicators and environment.
- ✓ Effective in IPM and IRM Programmes.

Crop	Name of Insect	Quantity per acre Structure (gram)	Water Ltr.	Waiting Periods (in days)
Cotton	American Caterpillar	100	200	30
Tomato	Fruit Borer	100	200	5
Lentils	Pod Borer	100	200	30
Paddy	Stem Borer, Leaf Roller	50	200	30
Cabbage	Diamond Back Moth	25	200	7















TAIYO PLUS®

(Thiamethoxam 30% FS)

- Taiyo Plus : Thiamethoxam 30 % FS is broad- spectrum systemic insecticide.
- Taiyo Plus : Is well suited for seed treatement used to control early season sucking pests.
- Taiyo Plus : Recommended as seed treatment to control Jassids, aphids and Whitefly in cotton, shoot fly on sorghum and Maize, termites in wheat, jassid in okra, Thrips, GLH and Whorl Maggot in rice, jassid and thrips in sunflower, stem fly in soybean and thrips in chilli crop.
- Taiyo Plus: Due to its fast action on sucking pest, it limits the transmission of leaf curl virus.







TAIYO PLUS®

Proceed as follows:

- 1.Put 1/2 of the required water top the mix tank
- 2. Add the required quantity of Thiamethoxam 30 % FS while stirring continuously.
- 3. Allow the product to disperse.
- 4. Switch the agitation system or stir manually.
- 5. Top up with the remaining volume of water.
- 6. Maintain agitation of the slurry during the whole time of use.
- 7. The slurry has to be used within 24 hours after preparation.

Application and Dosage Recommendations :						
		Dosage / Acre		I S IW		Waiting
Crop	Common Name of the Pest	Formulation (ml)	Dilution in water (liters)	Periods (in days)		
Cotton	Jassids, Aphids, Whiteflies	10ml/kg seeds	-			
Wheat	Termites	3.3ml/kg seeds	-			
Sorghum	Shoot Fly	10ml/kg seeds	-			
Rice	Thrips, GLH, Whorl Maggot	3 ml/kg seeds	-			
Okra	Jassid	5.7ml/kg seeds	-			
Maize	Shoot Fly	8 ml/kg seeds	-			
Chilli	Thrips	7 ml/kg seeds	-			
Sun flower	Jassid, Thrips	10ml/kg seeds	-			
Soybean	Stem fly	10ml/kg seeds	-			

















KASHIMA

(Chlorantraniliprole 0.4% GR)

- KASHIMA: Control of Yellow Stem Borer and Leaf Folder insects in paddy.lt is used in Paddy 15-35 days after Transplanting.
- KASHIMA: Controls Early Shoot Borer and Top Borer pests in Sugarcane crop. When used from sowing to first irrigation in sugarcane field, it protects against stem borer. To avoid top borer, apply as soon as the top borer eggs are visible.



Packing: 1kg, 4 kg





KASHIMA

Duration of effect: Long duration protection

Mode of Action: KASHIMA causes contraction and paralysis of the muscles of

insects. kashima when insect If applied early in the life cycle, it will prevent the increase in the pest population. increases

the yield potential of the crop.

Specification: Due to excellent control of Stem borer in Rice, it ensures greater

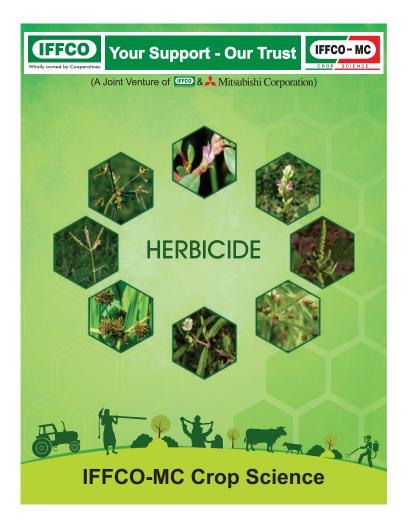
crop health and high yield potential Excellent control against Early shoot borer and Top borer in Sugarcane crop protects growers from incurring losses due to low crop yield and thereby

maximizing output

Application and Dosage Recommendations:

		Dosage/Acre		Dosage/Acre		Waiting
Crops	Common Name of Pestes	Formulation (gm/m.l.)	Dilution in water (liters)	Periods (in days)		
Rice	Yellow Stem Borer, Leaf Folder	4 kg	Broadcast	53		
Sugarcane	Early Shoot Borer, Top Borer	7.5 kg	Broadcast	147		









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ATARI[®]

(ATRAZINE 50% WP)

SELECTIVE BROAD SPECTRUM HERBICIDE FOR CONTROLLING GRASSY AND BROAD LEAVED WEEDS

- ATARI is a herbicide of Triazine group for pre and targeted post emergence application.
- ATARI is a recommended on Maize & Sugarcane as a pre emergence on weed free soil and it can also be applied immediately after transplanting on maize crop.
- ATARI is systemic herbicide absorbed through roots and foliage.







Packing: 500g, 1kg





ATARI[®]

- ATARI effectively controls grassy broad leaved weeds.
- ATARI provides longer period of protection of crop against weeds.
- ATARI has good compatibility with other herbicides.
- ATARI is safe for environment and care should be taken to avoid drift in water way.
- ATARI is highly cost effective and plays an important role managing the resistant weeds.

Time of application:

- Maize: Pre-emergence application within 2 days of sowing.
- Sugarcane: Pre-emergence application within 2-3 days after planting.

Application and Dosage Recommendations :

Crop	Names of Weeds	Dosage/Acre		Waiting
		Formulation (gm)	Dilution in water (litres)	Periods (in days)
Maize	Trianthama monogyna, Digera arvensis, Echinochloa sp., Eleusine sp., Xantheium strumarium, Xantheium strumarium, Brachiaria sp., Digitaria sp., Amaranthus viridis, Clemome viscosa, Polygonum sp.	400 - 800	200 - 280	-
Sugarcane	Portulaca oleracea, Digitaria sp., Boerhaavia diffusa, Euphorbia sp., Tribulus terrestris	400 - 1600	200 - 280	-



Trianthema portulacastrum







Amaranthus Digitaria viridis sanguinalis

Echinochloa spp.

Portulaca oleracea 54



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FURUSATO

(OXYFLUROFEN 23.5% EC)

A SELECTIVE CONTACT PRE-EMERGENT HERBICIDE

- · FURUSATO belongs to Diphenyl ether group of Herbicide.
- FURUSATO is recommended on Onion, Tea, Groundnut, Direct Seeded Rice and Mint. It is highly effective on broad leaves weeds and some grasses. It also act as suppressant on perennial weeds.
- FURUSATO forms a chemical barrier on soil surface and does not allow weeds to
 emerge. The new cells are highly susceptible to it. However the recommended
 crops are not affected by it.
- FURUSATO act on protoporphyinogen oxidase thus producing some phyto-toxic substances which in presence of sunlight disrupts cell membrane.
- FURUSATO needs sunlight to be effective.
- FURUSATO should be applied after 0-3 days of sowing or as on early post emergence application can be made up to 2-3 leaf stage of weeds.
- . FURUSATO can be mixed with other chemicals too.

















[55] Packing: 100ml. , 250ml. , 500ml.





FURUSATO[™]

- FURUSATO has safe environmental profile but should not be used near fish
- FURUSATO is also used for resistance management program in rotation with other mode of action herbicides.
- FURUSATO can be mixed with non-selective herbicides like Glyphosate and Paraquat to enhance its activity and for longer persistence in non-cropped areas.

Application and Dosage Recommendations: Dosage / Acre Waiting Period Crop Name of Weeds Formulation Dilution in (in days) water (liters) (ml) Rice (Direct shows Echinochloa spp., Cyperus iria, Eclipta alba 260-400 200 pre-emergenc Digitaria, Imperata, Paspalum, Borreria hispida Tea 260-400 200-300 15 Echinochloa colonum, Digitaria arginata 170-340 200-300 Groundnu Chenopodium, Coronopus, Haliotropium, Potato 170-340 200-300 Trianthema, Cyprus Chenopodium album, Amaranthus viridis Onion 170-340 200-300 Echinochloa colona, Cyperus spp., Solanum nigrum, Amaranthus spp., Sphenochlea spp., Mentha 361.72 200 10 Anagallis arvensis, Chenopodium album, Commelina benghalensis, Digitaria sanguinalis, Eclipta alba, Euphorbia spp., Ludwigia parviflora, Portulaca spp.













Amaranthus viridis

Eclipta Chenopodium Digitaria Echinochloa Anagallis

sanguinalis colona

Cyperus arvensis

nigrum



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(GLYPHOSATE 41% SL)

NON SELECTIVE SYSTEMIC **POST EMERGENCE WEEDICIDE**

- GENKI belongs to most popular organophosphorus group of herbicide.
- · GENKI is very effective against grassy and broad leaved weeds in non cropped area as well as in vacant space of cropped area.
- GENKI Mode of action: EPSP synthase and inhibit amino acid synthesis.
- GENKI is absorbed by the foliage and translocated with rapid systemic action throughout the plant.



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Packing: 500ml., 1ltr, 5ltr, 20ltr





GENKI™

- ✓ **GENKI** is effective on annual and perennial weeds.
- GENKI can be used in orchards, forest lands and non cropped area.
- ✓ **GENKI** is safe for environment and soil microbes. It rapidly disintegrate in contact with soil and convert to phosphorus compound
- GENKI is applied at full expanded green leaves of weeds at any stage of the crop, care should be taken that weeds are dust free. Preferably it should be applied after rains.

Application and Dosage Recommendations :				
	Names of Weeds	Dosage/Acre		Waiting
Crop		Formulation (ml)	Dilution in water (litres)	Periods (in days)
Tea	Broad leaved weeds & Annual grasses Axonopus compressus Cynodon dactylon Imperata cylindrica Polygonum perfoliatum Paspalum scrobiculatum Arundinella bengalensis Kalm grass	800 - 1200	180	21
Non Cropped Areas	Sorghun helepence and other Monocot & Dicot weeds, General weed control	800 - 1200	200	



Polygonum perfoliatum



Imperata cylindrica



Sorghum halepense



Kalm grass



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GENKI PLUS™

(GLYPHOSATE 71% SG)

A NON SELECTIVE BROAD SPECTRUM SYSTEMIC WEEDICIDE

- GENKI PLUS belongs to Organophorus group.
- GENKI PLUS is recommended in tea plantation for control of annual and perennial weeds. It also kills aquatic weed if applied on clean foliage.
- GENKI PLUS translocated into the root and foliage of weeds and start killing within 7-12 days of application.
- GENKI PLUS is quickly absorbed by foliage and inhibits EPPS synthesis in weed.
- GENKI PLUS can be applied at any stage of weeds, preferably use at maximum green stage with sufficient succulent leaves and without any soil dust on it.
- GENKI PLUS is not having residual effect on soil thus it does not inhibit main crop seed germination and emergence.
- GENKI PLUS is better to use during rainy season as dust particle on weeds are washed away.



Packing: 100g, 500g



GENKI PLUS™

- GENKI PLUS also contains ammonium salt. It binds with glyphosate molecule
 and has capacity to move to the root of the weeds. This way has the capacity to kill
 root rhizomes, bulbs and corn of weeds,
- GENKI PLUS use hood while spraying to avoid drift to main crop.
- GENKI PLUS is also used in Non-cropped area to kill weeds in Canal, Airport, Railway tracks, Roadside etc.
- ✓ **GENKI PLUS** is safe for soil micro organisms and earth worms. It rapidly breakdown coming in contact with soil particles.
- ✓ **GENKI PLUS** is compatible with most of othe herbicides and sometimes added to enhance the power in resistance weed management in non cropped area.

Application and Dosage Recommendations :				
		Dosage / Acre		
Crop	Name of Weeds	Formulation (gm)	Dilution in water (liters)	Waiting Period (In days)
Tea and non crop area	Acalypha indica, Sidaacu lata, Ipomea digitara, Chicorium entibus, Digera arvensis, Digitarias anguinalis, Paspalum conjugatum, Ageratum conyzodes, Cynadon dactylon, Cyperus rotundus,	1200	200	7



Acalypha indica



Cichorium intybus



Ipomea digitata



Digitaria sanguinalis



Cyperus rotundus



Ageratum conyzoides



Your Support - Our Trust





(IMAZETHAPYR 10% SL)

EARLY POST EMERGENCY SELECTIVE HERBICIDE

- · ICHIGO belongs to Imidozolinone chemical group.
- ICHIGO is recommended for the control of Grasses, Sedges and broad leaved in Soybean and Groundnut crop.
- ICHIGO is a systemic herbicide quickly absorbed by foliage and roots of the weeds. It is also having longer residual action in soil which keeps controlling new emerging weeds.
- · ICHIGO acts by inhibiting the Acetolactate Synthase (ALS) which leads to disruption of DNA synthesis and cell growth of the targeted weeds.
- ICHIGO is applied as a early post emergent between 10 to 14 days after sowing. It should be tank mix with ammonium sulphate and surfactant provided alongwith ICHIGO bottle resulting better efficacy.











ICHIGO™

- ✓ **ICHIGO** provides longer duration control on weeds.
- ICHIGO provides early protection of weeds there by minimises the losses.
- ICHIGO application: At 2-3 leaves stage of broad leaf weeds or 2-3 inch height of grassy weeds.
- ICHIGO can be mixed with other weedicide also.
- ✓ **ICHIGO** should be applied uniformly without overlapping of spray.

Application and Dosage Recommendations :					
	Names of Weeds	Dosage / Acre		Waiting	
Crop		Formulation (ml)	Dilution in water (litres)	Period (in days)	
Soybean	Umbrella sedge, Jungle rice, Barnyard grass, Dudhi, Kuli seeds, False amaranth, Commelina (Day flower) etc.	300-400 ml ICHIGO + 300-400 g ICHIGO-BOOST + 225-300 ml ICHIGO-SPREAD	200-240	72	
Groundnut	Umbrella sedge, Carpet weed, Love grass, Commelina (Day flower) etc.	400-600 ml ICHIGO + 400-600 g ICHIGO-BOOST + 300-450 ml ICHIGO -SPREAD	200-280	102	



Echinochloa spp.



Commelina benghalensis



Euphorbia hirta



Amaranthus viridis 62





KABUTO[™]

(PARAQUAT DICHLORIDE 24% SL)

NON SELECTIVE CONTACT HERBICIDE

- **KABUTO** belongs to bypirydyl group of herbicide.
- KABUTO is a control a wide range of annual grasses and broad-leaved weeds. It successfully control established perennial weeds.
- · KABUTO disrupt photosynthesis and ruptur cell membrane of weeds and kill rapid desiccation of water.
- KABUTO is used to control many agricultural and non cropped area.
- KABUTO act very fast when ever it is in contact with the foliage and other plant parts and get inactive upon contact with soil.
- KABUTO can be applied at any stage of the weeds but should not come in contact with crop foliage. It can be used on glyphosate resistant weeds also.















KABUTO[™]

- KABUTO is also used as a defoliant in cotton to improve fibre quality as well as to take second crop in central india.
- KABUTO is used in forest lands, railway tracks, airport, deffence area and water canals to remove weeds.
- ✓ **KABUTO** is a strong contact herbicide hence coverage is important and the weed foliage should not have sand or dust deposit it is better to apply after rains.

Application and Dosage Recommendations :					
				Waiting	
Crop	Names of Weeds	Formulation Dilution in (ml) water (litres)		Period (in days)	
Potato (Post-emergence overall / inter-row application at 5-10 % emergence)	Lambsquarter (Bathua), Blue pimpemel, Carpet weed, Nut sedge, Common fumitory etc.	425 -850	200	100	
Cotton (Post-emergence directed inter row application at 2-3 leaf stage of weeds)	False amaranth, Rice flat sedge, Carpet weed, Wild jute, Leucas, Dudhi etc.	500-850	200	150-180	
Rice [pre-plant (minimum tillage) before sowing/ transplanting for controlling standing weeds]	Barnyard grass, Rice flat sedge, Goat weed, Commelina (Day flower), Water clover, Buffalo grass, Mollugo etc.	500-1600	100	-	
Wheat [pre-plant (minimum tillage) before sowing]	Grassy & Broad leaf weeds	1700	200	120-150	
Tea (Post-emergence directed inter row application at 2-3 leaf stage of weeds)	Cogon grass, Wild foxtail millet, Commelina (Day flower), Button weed, Hilo grass, Hill glory shower etc.	330-1700	80-160	-	
Grapes (Post-emergence directed inter row application at 2-3 leaf stage of weeds)	Nut sedge, Bermuda grass, Field bind weed, Common purslane, Tridax daisy etc.	1000	200	90	





KOKORO™

(CLODINOFOP PROPAGYL 15% WP)

POST EMERGENCE HERBICIDE

- KOKORO belongs to aryloxy phenoxy propionate group.
- KOKORO is recommended on wheat crop as a post emergent for the control of Phalaris minor.
- KOKORO is Acetyl CoA Carboxylase (ACCase) Inhibitor.
- KOKORO is rapidly absorbed by leaves and trans located to growing points it interact with the production of fatty acids killing the weeds from growing points.
- KOKORO can be used at 30 to 35 days after sowing. It can be used along with other herbicides for controlling broad leaf weeds.
- · KOKORO can be applied proceeding to Sulfosulfuron application.



Packing: 160g





KOKORO™

- ✓ **KOKORO** can be applied under different environmental conditions.
- KOKORO has a longer residual action and continue to kill newly emerged weeds. It is successfully used in all wheat varieties of India.
- KOKORO does not have long persistence hence does not affect succeeding crops.
- KOKORO should be used at recommended 150 to 160 liter water per acre the lower water dilution can cause resistance build up in weeds.

Application and Dosage Recommendations :					
			Dosa	Waiting	
	Crop	Crop Names of Weeds	Formulation (gm)	Dilution in water (litres)	Period (in days)
	Wheat	Phalaris minor	160	150 - 160	110



Phalaris minor



Avena fatua





MAKOTO[™]

(METSULFURON METHYL 20% WP)

POST EMERGENT HERBICIDE FOR **BROAD LEAVED WEEDS**

- · MAKOTO belongs to sulfonylurea group.
- MAKOTO is recommended on Wheat, Rice and Sugarcane crops.
- MAKOTO is a selective systemic weedicide for controlling several Broad Leaf Weeds.
- · MAKOTO absorbed and translocated rapidly inside the weeds and stop acetolactate formation resulting in killing of top cells.
- MAKOTO can be used at 25 to 35 days of sowing in Wheat crop and 5 to 10 days of transplanting in Paddy.







Packing: 8g





MAKOTO[™]

- MAKOTO is safe for wheat crop and it gives the quality yield.
- MAKOTO is also safe for environment, animals and human beings.
- MAKOTO is a selective post emergence herbicide.
- MAKOTO is rapidly absorbed through foliage and plant's roots. It requires clear sky at time of application.
- **MAKOTO** is an excellent partner as combination with other weedicides.

Application and	Dosage Recommendations	•

Application and Docago November added in .						
		Dosage	e/Acre	Waiting		
Crop	Names of Weeds	Formulation (gm)	Dilution in water (litres)	Period (in days)		
Wheat	Chenopodium album, Melilotus indica, Lathyrus aphaca, Anagallis arvensis, Vicia sativa, Cirsium arvense	8	200 - 240	80		
Rice (transplanted)	Cyperus rotundus, Spheanochlea sp., Fimbristylis sp., Ludwigia parviflora , Marsilea quadrifoliata	8	200 - 240	60		
Sugarcane	Cyperus esculentus, Amaranthus viridis, Portulaca oleracea, Parthenium hysterophorus, Trianthema sp. Cleome viscosa, Solanum sp., Commelina benghalensis, Euphorbia sp., Digeria sp.	12	200 - 240	346		



Portulaca Amaranthus viridis oleracea hysterophorus arvensis









Vicia sativa

Chenopodium







NOBIRU™

(2.4 - D AMINE SALT 58% SL)

POST EMERGENCE HERBICIDE FOR BROAD LEAF WEEDS

- NOBIRU belongs to Phenoxy acetic group.
- NOBIRU is a selective, systemic, post emergence herbicide effective against broad leaved weeds in cropped area of Sorghum, Maize, Wheat, Potato and Sugarcane as well as in Non cropped areas, it is not effective on grassy weeds.
- NOBIRU absorbed by the leaves, roots and translocated in to the weeds. It acts by
 mimicking the action of the plant growth harmone auxin, which result in
 uncontrolled growth of weeds and eventually kills it.
- NOBIRU is applied when most of the weeds are germinated and crop is 4 to 5 leaf stage.













NOBIRU™

- NOBIRU is highly soluble in water. It is absorbs by weeds faster than other herbicide.
- **NOBIRU** is also compatible with other herbicide. It is a cost effective herbicide.
- NOBIRU is still effective in india and it has not develop resistance in weeds however care should be taken it should not be used or stored near the broad leaf crops like cotton.

Application and	Dosage I	Recommend	lations :
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		Dosag	ge / Acre
Crop	Name of Weeds	Formulation (ml)	Dilution in water (liters)
Potato	Convolvulus arvensis, Portulaca oleracea, Asphodelus tenuifolius, Chenopodium album, Anagallis arvensis, Cyperus iria	1400	160
Sugarcane			200
Wheat	Convolvulus arvensis, Melilotus albus, Fumaria Spp., Asphodelus tenuifolius, Chenopodium album, Vicia sativa	340-520	200-240
Aquatic Weed	Eichhornia crassipe	340-680	240-280
Sorghum	Phyllanthus niruri Convolvulus arvensis, Euphorbia hirta, Tridax procumbens, Digera arvensis, Trianthema Spp., Striga Spp., Cyperus iria	1200	200-240
Non cropped Area	Partheniumhysterophorus, Cyperus rotundus	1800	120-160
Maize	Amaranthus Spp., Tribulus terrestris, Boerhavia diffusa, Portulaca oleracea, Euphorbia hirta, Cyperus Spp., Trianthema monogyna	344	160-200











Euphorbia Portulaca hirta

oleracea

Cyperus Convolvulus iria arvensis

Vicia sativa

Commelina benghalensis







(QUIZALOFOP ETHYL 5% EC)

POST EMERGENCE HERBICIDE FOR **GRASSY WEEDS**

- RYUSEI a systemic herbicide of aryloxy phenoxy propionate group.
- RYSUEI is recommended on Soyabean, Groundnut, Onion and Black gram for control of grassy weeds.
- RYUSEI is rapidly absorbed & translocated in weeds after its application. It is an acetyl CoA caroboxylase Inhibitor (ACCase).
- RYUSEI Quickly trans locate and moves both xylem and phloem and accumulate in meristematic tissue and kills weeds. The affected weeds are unable to regenerate.
- RYUSEI is applied at 20 to 25 days after sowing and remain effective for longer period of killing all new germinated weeds.















Packing: 100ml, 250ml, 500ml, 1ltr





RYUSEI[™]

- RYUSEI after application show the toxic symptoms in weeds within 5-8 days and then completely killed it in 10 to 15 days.
- RYUSEI is quickly absorbed by leaves within 1 to 4 hours hence the rain comes after above period does not affect its efficacy.
- RYUSEI is the best technical as a post emergent in soybean crop and no resistance is reported against it.
- RYUSEI should be used as per the recommended spray volume of 150 to 160 liters per acre the low water volume can develop resistance of weeds.

Application and Dosage Recommendations :

				Waiting
Crop	Names of Weeds	Formulation (ml)	Dilution in water (litres)	Period (in days)
Soybean	Barnyard grass, Jungle rice, Love grass, Crab grass etc.	300-400	200-240	95
Cotton	Barnyard grass, Jungle rice, Viper grass, Crab grass etc.	lungle rice, liper grass,		94
Groundnut	Barnyard grass, Viper grass, Crowfoot grass etc.	300-400	200	89
Black gram	Goose grass, Crowfoot grass, Crab grass, Love grass, Barnyard grass, Viper grass etc.	300-400 200		52
Onion	Crab grass, Goose grass, Crowfoot grass, Love grass etc.	300-400	150-180	7









Barnyard grass

Crowfoot grass

Viper grass

Jungle rice 72





SOKUSAI™

(PRETILACHLOR 50% EC)

SELECTIVE SYSTEMIC RICE HERBICIDE

- SOKUSAI belongs to chloroacetamite group of weedicides.
- SOKUSAI is a pre-emergence Rice herbicide to control grassy, broad leaved and some sedges.
- **SOKUSAI** stops the growth of weeds by controlling the cell division of weeds at the emergence stage itself.
- SOKUSAI can be applied within 5 days of Rice transplanting, to get better result spray uniformly in standing water & hold water for 2-3 days after the application.







SOKUSAI™

- ✓ **SOKUSAI** inhibits the affected weeds growth by reducing the cell division.
- SOKUSAI is highly selective to Rice crop and it safe for the rice crop. It provides early and longer duration control of weeds in Rice.
- SOKUSAI is preferred in transplanted paddy crop and has longer residual action.
- SOKUSAI can be used under IPM management strategy, it is used in all agro climatic conditions and has no adverse effect on any recommended varieties of Paddy.

Application a	and Dosage Recor	nmendations		
		Dosage/Acre		Waiting
Crop	Names of Weeds Formulation (ml)	Dilution in water (litres)	Period (in days)	
Transplanted Rice	Barnyard grass, Jungle rice, Umbrella sedge, Rice flat sedge, Fimbristylis, Eclipta (Bhangra), Paddy clove, Pond weed, Red sprangletop,	400-600	200-280	75-90



Barnyard grass



Pond weed



Crab grass



Nut Stage



Rice flat Stage



Jungle Rice





TANOSHI[™]

(METRIBUZIN 70% WP)

SYSTEMIC HERBICIDE FOR GRASSY AND BROAD LEAVED WEEDS

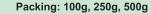
- TANOSHI belongs to triazines group of herbicides.
- TANOSHI is used for pre/post emergence control of annual grasses and some broad leaved weeds of Potato, Sugarcane, Wheat, Soybean and Tomato.
- TANOSHI selective systemic herbicide, absorbed mainly by the roots and also by the leaves. It act on photosynthesis II and inhibit electron transfer the weed dies due to starvation.
- · TANOSHI can be applied foliar broadcast, band application, soil incorporation method. It is also tested in combination with clodinafop propargyl for wheat weed management.

IFFCO-MC

TANOSHI"











TANOSHI[™]

- TANOSHI is primarily root absorbent translocated upward in xylem and moves to the top of plant.
- ✓ TANOSHI is a post emergent application it moves systematically from the base of leaves and kill weeds inhibiting the photosynthesis.
- Time of application:
- Sugarcane: Pre-emergence or post emergence application 25-30 days after planting. Potato: pre-emergence application at 3-4 days after planting or at potato plant height
- Tomato: Pre-plant application a week before transplanting or post emergence at 15 days after transplanting.
- Wheat: Post emergence application at 35 days after sowing.
- Soyabean: Pre-emergence application 1-2 days after sowing.

Application and Dosage Recommendations :								
		Dosage/Acre			Dosage/Acre		Waiting	
Crop	Crop Names of Weeds		Dilution in water (litres)	Period (in days)				
Sugarcane	Cyperus rotundus, Cynodon dactylon, Asfodelus tenuifolius, Chenopodium album, Convolvuous arvensis, Portulaca oleracea,	ifolius, Chenopodium album, rvensis, Portulaca oleracea,		60				
	Anagallis arvensis, Cichorium intybus, Echinochloa colonum, Dactyloctenium aegyptieum, Parthenium hysterophorous, Commellina sp.	Post Emergency 600-800	300-400	6				
Potato	Chenopodium album, Trianthema monogyna, Parthenium hysterophorous, Fumaria parviflora, Malilotus sp., Phalaris minor	300	300-400	30				
Tomato	Chenopodium album, Trianthema monogyna, Parthenium hysterophorous, Fumaria parviflora, Malilotus sp., Phalaris minor	300	300-400	30				
Soybean	Digitaria sp., Cyperus esculentus, Cyperus campestris, Borreria sp.	200 - 300	300 - 400	30				
Wheat	Phalaris minor, Chenopodium album, Melilotus sp.	100 - 120	200 - 300	120				





YUGATA

(BISPYRIBAC SODIUM 10% SC)

SYSTEMIC HERBICIDE

YUGATA: is a broad spectrum post emergent herbicide effectively controls major grasses, sedges and broad leaf weeds in Rice crop.

YUGATA: is ideal herbicide to manage all major weeds in Rice at various stages like Nurseries, Transplanted Rice and Direct Seeded Rice (DSR).







YUGATA

YUGATA: dose is 80-100 ml/acre in 120 litre water (depending on the field conditions weeds, their growth stage, population, time of application).

YUGATA: should be applied after draining out irrigated water from field. Reirrigated after 2-3 days of application and maintain water for next 7 days for best results.

YUGATA: should be used only as a spray and apply uniformly on weed leaves It should not be mixed with sand or fertilizer or any other method.

YUGATA: spray for uniform coverage of weeds. Use flood jet or flat fan nozzle.

Application and Dosage Recommendations :					
		Dos	***		
Crop	Name of Weeds	Formulation (ml)	Dilution in water (liters)	Waiting period (in Days)	
Rice Nursery & Transplanted	Echinochloa crusgalli, Echinochloa colonum, Ischaemum rugosum, Cyperus difformis,Cyperus iria	80	120	78	
Rice (Directly seeded)	Fimbristylis miliacea, Eclipta alba, Ludwigia parviflora, Monochoria vaginalis, Alternanthera philoxeroides, Sphenocleca zeylenica	80-100	120	78	

PRECAUTIONS

- Rain fastness is at least 6 hours, do not spray YUGATA while drizzling in the field.
- 2) Do not tank mix any non-compatible pesticide along with YUGATA
- 3) It should not be applied in fish cultivated area





YOKOZUNA ROLE IN RICE WEED MANAGEMENT



YUGATA: is a broad spectrum post emergent herbicide effectively controls major grasses, sedges and broad leaf weeds. It belongs to Pyrimidinyl Carboxy group.

YUGATA: is ideal herbicide to manage all major weeds in Rice at various stages like Nurseries, Transplanted Rice and Direct Seeded Rice (DSR).

YUGATA: inhibits amino sysnthesis—actohydroxyacid synthase (AHAS) in weeds, which is building block of cell. It is safe to paddy crop and does not affect the known varieties of rice plants grown in India.

YUGATA: is better than other weedicide. It can be applied upto 2-5 leaf stage of weeds. This gives flexibility to farmer of 10-15 days window of application.

YUGATA: is high systemic in nature and quickly gets absorbed by weed's foliage. Weeds cease to compete with rice crop followed by their death in about

weeks time. **YUGATA:** is a non persistant weedicide and can be applied in combination with or in close succession with other generally used plant protection chemicals.

Time and method of Application Weed stage for application





5 Leaf Stage Plant (Broad Leaf Weeds)



2-3 Inch Heigi (Grasses)

YUGATA: should be sprayed when most of the weeds have emerged and are between 2-5 leaved stage. It is not effective on submerged weeds.





YUGATA™

GRASSES







Echinochloa colona



Ischaemum rugosum

SEDGES



Cyperus difformis



Cyperus iria



Fimbristylis miliacea

BROAD LEAFED



Monochoria vaginalis



Ludwigia parviflora



Sphenoclea zeylanica



Eclipta spp.





ZAKIYAMA[™]

(PENDIMETHALIN 30% EC)

PRE EMERGENT HERBICIDE FOR GRASSY AND BROAD LEAF WEEDS

- ZAKIYAMA belongs to dinitroaniline chemical group.
- ZAKIYAMA is effective against the wide range of grassy and certain broad leaved weeds as it inhibits growth of both root and shoot recommended on wheat, paddy and cotton crops.
- ZAKIYAMA inhibits cell division and elongation thus inhibiting root as well as shoot growth and finally prevent weed emergence.
- · ZAKIYAMA is a selective pre-emergence herbicide having effective control of weeds at a very economical cost of application.
- ZAKIYAMA provides effective control of the affected weeds for longer duration because of residual control.















ZAKIYAMA

- ZAKIYAMA is well acceptable for its efficacy for long control, crop yield, treatment costs and environmental impact.
- ZAKIYAMA it is widely used in various vegetable and leguminous crop By farmers of india.
- ZAKIYAMA inhibits the microtubule synthesis resulting check of seedling root & shoot growth in affected weeds.
- **ZAKIYAMA** is safe for environment and soil microclimate.

Application	Application and Dosage Recommendations :					
		Dosage / Acre		Dosage / Acre		Waiting
Crop	Names of Weeds	Formulation (ml)	Dilution in water (litres)	period (in Days)		
Wheat	Phalaris minor, Chenopodium album, Melilotus alba, Portulaca oleracea, Anaglis arvensis, Fumaria parviflora, Poa annua	1320 to 2000 (Light to Heavy Soil)	200-280	-		
Rice (Transplanted & DSR)	Echinochloa colona, Echinochloa crusgalli, Fimbristylis miliaeceae, Marsila quadrifoliata, Altarnanthera sessilia, Ammania baccifera, Eclipta alba, Ludwigia parviflora, Cyperus difformis,	1320 to 2000 (Light to Heavy Soil)	200-280	-		
Cotton	Echinnochloa spp, Euphoriba hirta, Amaranthus viridis, Portulaca oleracea, Trianthema spp., Eleusine indica	1000 to 1670	200-280	150		
Soybean	Echinochloa spp., Euphorbia spp., Amaranthus viridis, Portulaca oleracea, Trianthema spp., Eleusine indica	1000-1320	200-280	110		
Pigeon Pea	Digitaria sanguinalis, Digeria arvensis, Amaranthus spp., Trianthema spp., Euphorbia hirta, Cyperus spp., Eragrostis spp.,	1000-1320	200	133		
Chilli	Echinochloa spp., Eleusine indica,	1000 to 1670	200-280	15		
Onion	Chenopodium album, Melilotus spp., Digitaria Sanguinalis, Anagalis arvensis, Eleusine indica, Echinochloa spp., portulaca oleracea	1000-1320	200-280	15		



Cleome viscosa



Digitaria sanguiulatis



Portulaca olerace



ragrostis minor

or (8





ZAKIYAMA PLUS™

(PENDIMETHALIN 38.7% CS)

BROAD SPECTRUM SELECTIVE PRE-EMERGENT HERBICIDE

- ZAKIYAMA PLUS belongs to dinitroaniline chemical group.
- ZAKIYAMA PLUS is a broad spectrum, selective pre-emergent and pre-plant
 incorporation herbicide recommended in Soybean, Onion, Chilli and Cotton crops
 for effective control of annual grasses, sedges and broad leaved weeds.
- ZAKIYAMA PLUS inhibits cell division and elongation thus inhibiting root as well as shoot growth and finally prevent weed emergence.
- ZAKIYAMA PLUS is based on advance capsule technology in which active
 ingredient is packed in capsule form. Because of this technology the molecule is
 released slowly on soil surface and give prolonged control of newly emerged
 weeds.









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ZAKIYAMA PLUS™

- ✓ **ZAKIYAMA PLUS** absorbs through both the leaves and roots of weed plants.
- ZAKIYAMA PLUS inhibits the cell division at the time of weed seed germination.
- ✓ ZAKIYAMA PLUS is safe for environment and soil microclimate.
- ZAKIYAMA PLUS is cost effective herbicide due to one-shot solution and provides longer duration control on weeds.
- ZAKIYAMA PLUS has no residual effects due to which it doesn't affect adversely on subsequent crops.

	Applica	Application and Dosage Recommendations :				
			Dosage / Acre		Waiting Period	
	Crop	Name of Weeds	Formulation (ml)	Dilution in water (liters)	(In days)	
	Soybean	Echinochloa colonum, Dinebra arabica, Digitaria sanguiulatis, Brachiaria mutica, Dactyloctinium aegyptium, Portulaca oleracea, Amaranthus viridis, Euphorbia geniculata,Cleome viscosa	600-700	200	40	
	Onion	Dactyloctinum aegyptium, Dinebra arabica, Digitaria sanguinalis, Echinochloa spp., Portulaca oleracca, Commelina spp., Digera arvensis, Amaranthus viridis, Trianthema portulacastrum	600-700	200	104	
	Chilli	Echinochloa colonum, Dinebra arabica, Brachiaria mutica, Portulaca oleracea, Amaranthus spp., Commelina spp., Parthenium hysterophorus, Digera arvensis, Physalis minima	600-700	200	98	
	Cotton	Digitaria sanguinali, Echinochloa colonum, Dinebra arabica, Eragrastis minor, Lantana camara, Brachiaria mutica, Portulaca oleracea, Amaranthus spp., Commelina communis, Parthenium hysterophorus	600-700	200	101	







Echinochloa colonum An







Cleome viscosa

Digitaria sanguiulatis Portulaca ol





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Your Support - Our Trust



OJIKA[™]

(PYRAZOSULFURON ETHYL 10% WP)



Packing: 20g, 80g





OJIKA is a broad spectrum herbicide containing Pyrazosulfuron Ethyl 10% WP, a sulfonylurea class of herbicide. It is a pre-emergent systemic herbicide. The herbicidal activity is derived by inhibition of Acetolactate synthase (ALS) which is essential for synthesis of amino acids.

FEATURES OF OJIKA

- Low dose: Ojika herbicide hence favorable for environmental and toxicological profile.
- Spectrum of weed Control: Broad spectrum activity, excellent control of Sedges and Broad Leaf weed & fairly good control of grasses.
- Application flexibility Ojika can be used as spray as well as broadcast.
- OJIKA is safe for growth of Rice crop in nursery and main field.
- OJIKA has no adverse effect on physico chemical properties and microbial activities in the soil.
- OJIKA is one of the most economical rice Herbicide.

RECOMMENDATIONS:

Crop	Weeds	Dosage (g /Acre)	Dilution in water (liters)	Waiting Period (In days)
Paddy	Cyperus iria, Cyperus difformis, Fimbristylis miliacea, Ludwigia parviflora, Monochoria vaginalis,	40-60	200-240	95











Packing: 100ml, 200ml, 400ml., 1ltr





TOKACHI[™]

Tokachi: The active ingredient in penoxsulam 2.67% OD.

Tokachi: A systemic weedicide used after weeding.

Tokachi: Control Grasses, Sedges and Broad leaved weeds in Paddy Crop.

Tokachi: Has a unique OD formulation which results in good effect even in rainy season.

Tokachi: It is completely safe for rice crop as well as subsequent crop at right dosage.

Tokachi: Control Grasses, Sedges and Broad leaved weeds in Paddy Crop.

Application and Dosage Recommendations :					
Crop		Dosage	Waiting		
	Names of Weeds	Formulation (ml)	Dilution in water (litres)	period (in Days)	
	Grasses: Barnyardgrass Watergrass (Echinochloa crus-galli) Junglerice (Echinochloa colona)	360-400	120-200	60	
Paddy	Sedges: Smallflower Umbrella (Cyperus difformis)	360-400	120-200	60	
	Broad Leaved: Caesulia axillaris	360-400	120-200	60	
	Weeds: Pink node flower	360-400	120-200	60	







REKISHI[™]

(Sulfosulfuron 75% WG)

SYSTEMIC, SELECTIVE POST-EMERGENT HERBICIDE FOR NARROW LEAF WEEDS IN WHEAT

REKISHI is a systemic, selective post-emergent herbicide of sulfonylurea group.

REKISHI effectively controls the narrow leaf weeds like Phalaris minor (Mandusi/ Guli danda) and broad leaf weeds like Chenopodium (Bathu), Malilotus (Sainji).

REKISHI inhibits the synthesis of amino acids and stops the metabolic process, with the result weeds dry up and ultimately dies.



Packing: 13.50g

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REKISHI[™]

Method of Application:

- 1. Dissolve the total quantity of Rekishi (13.5 g kept in Pouch) in 8 litre of water.
- 2. Add to the total quantity (500ml) of Rekishi kept in other packet and mix them well.
- 3. Use one litre of this stock solution / pump (15 litre) and spray on the crop.
- 4. For better results use atleast 8 pump / acre and use only Flat Fan/Food Jet nozzle

Application and Method of Use

Crop	Weeds	Dose (g/acre)	Time of Application
Wheat	Phalaris minor, Wildoat, Chenopodium, Melilotus, Lathyrus, Medicago,etc.	13.5 g Rekishi + 500 ml Surfactant	30-35 days after sowing of wheat when weeds are in 2-4 leaf stage

Precaution:

Never use Rekishi if Mustard, Sunflower, Pea or any other broad leaf crop is intercropped with wheat.











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SOKUSAI PLUS™

(Pretilachlor 37% E.W.)

Mode of Action:

- 1. Broad-spectrum selective pre-emergence to early post-emergence rice herbicide
- 2. It controls grass, broadleaf, and sedge weeds.
- 3. It is a cell division inhibitor. It is reported that chloroacetamide inhibit the synthesis of very long-chain fatty acids
- 4. It is taken up readily by the hypocotyls, mesocotyls, and coleoptiles, and to a lesser extent, by the roots of germinating weeds.







SOKUSAI PLUS™

Benefits:

- 1. It dissolves quickly and spreads fast and has an effective action.
- 2. It is safe for the crop and environment
- 3. It is suggested to use between 0-5 days after transplanting of paddy.
- 4. It is also suggested to avoid flooding the field up to 24 hours after application.
- It exhibits highly efficient control of a variety of weeds like annual grasses, sedges and broad-leaved weeds.
- 6. It controls weeds by inhibiting their growth and reducing cell division.
- 7. No adverse effect like stunting or yellowing of crop rather gives greening effect to the crop.

Application and Method of Use

Crop	Weeds	Dosage Per Acre		Waiting	
		Formulation (ml)	Dilution in water (Liters)	period (days)	
Paddy (Rice)	Echinochloa crusgalli, Echinochloa colonum, Cyperus difformis, Cyperus iria, Digitaria sanguinalis, Fimbristylis miliacae, Eclipta alba, Ludwigia parviflora, Monochoria vaginalis	600-750	200	90	

















YUTORI™

(TEMBOTRIONE 34.4% w/w SC)

A TRUE FRIEND OF MAIZE

YUTORI: is a weedicide used for the control of broad and grassy weeds in the standing crop of maize.

YUTORI: is not phytotoxic when used as per field recommendation.

YUTORI: apply the herbicide, when broadleaf and grassy weeds in maize is observed and repeat application as necessary.

YUTORI: The signs of action are visible rapidly and the complete weed control effect is visible within a few days of spraying.



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Packing: 115ml





YUTORI™

Method of Application:

- 1. Apply during clear sky do not apply during wind condition.
- **2.** Application timing: preferably in the morning or evening hours.
- 3. All type of soil and water.
- 4. Not to be applied during crop maturity and just before crop harvest.

Application and Method of Use

Crop	Weeds	Dosage Per Acre		Waiting	
		Formulation (ml)	Dilution in water (Liters)	period (days)	
Maize	Enchinochloa sp., Trianthema portucastrum, Bracharia sp.	114.4	200	55	



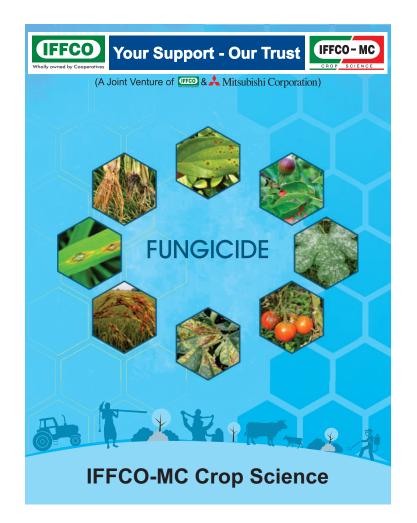
Enchinochloa sp.



Trianthema portulacastrum



Bracharia grass









ANIKI™

(PROPINEB 70% WP)

BROAD SPECTRUM CONTACT FUNGICIDE WITH PREVENTIVE ACTION

- ANIKI belongs to Dithiacarbamate fungicide with proven action.
- ANIKI is recommended on Grape and Tomato crops for control of important diseases.
- ANIKI is a contact fungicide, act on fungal spore germination and penetration stage.
- ANIKI act on multiple site of fungus like respiration, protein metabolism and many other sites. Due to this multiple action, chances of resistance development is minimal.
- ANIKI should be applied at the initial stage of infection as preventive spray. It is
 not effective when fungus has spread inside and started producing spores.
- ANIKI is ideal fungicide for IPM management practices.











Packing: 250g, 500g, 1kg





ANIKI™

- ANIKI also contains zinc in easily available form which contributes to improvement in yield and quality of the crops.
- ✓ ANIKI is made up of fine suspension particle, quickly mix in spray solution and does not cause spots on fruits.
- ANIKI has low toxicity to human beings and safe for environment.
- ANIKI has better rain fastening ability hence better efficacy under adverse environment conditions.
- ✓ ANIKI is best for resistance management strategy.

Application and Dosage Recommendations					
Crop		Dosaş	Waiting		
	Disease	Formulation (ml)	Dilution in water (liters)	Periods (in days)	
Apple	Scab	3gm/liter of water	as per crop requirement	30	
Pomegranate	Leaf And Fruit Spots	3gm/liter of water	as per crop requirement	10	
Potato	Early & Late Blight	3gm/liter of water	as per crop requirement	15	
Chilli	Dieback	5gm/liter of water	as per crop requirement	10	
Grapes	Downy Mildew	3gm/liter of water	as per crop requirement	40	
Tomato	Buck eye rot	3gm/liter of water	as per crop requirement	10	
Rice	Brown leaf spot (Helminthosporium oryzae)	600-800	200	-	



Fruit spot Scab



Dieback



Late blight



Buck eye rot 96





GOZARU[™]

(COPPER OXYCHLORIDE 50% WP)

BROAD SPECTRUM CONTACT FUNGICIDE

- GOZARU belongs to inorganic chemistry of Copper.
- GOZARU is registered on many crops and wide range of diseases spectrum.
- GOZARU has a strong contact action at multiple sites of fungus and act as protectant fungicides.
- · GOZARU acts at pre penetration stage of fungus.
- GOZARU is a protectant fungicide which has to apply before the fungus invade the leaf surface.
- GOZARU is having blue colored copper and is most economical fungicide.



Packing: 250g, 500g, 1kg





GOZARU[™]

- GOZARU is a pH neutral product and is made of ultra-fine particle ingredients.
- GOZARU is easily mixed in water and have free flowing formulation.
- GOZARU can be tank mixed with other chemicals but avoid using alkaline products.
- GOZARU has rain fastening ability and have long residual action.
- GOZARU also stops the saprophytic fungus growing on honey substance released by many sucking pests like Aphids and Whitefly.

Application and Dosage Recommendations

PP				
	Disease	Dosago	Waiting	
Crop		Formulation (gm)	Dilution in water (liters)	Period (In Days)
Citrus	Leaf spot, Canker	1000	300-400	-
Chilies	Leaf spot, Fruit rot	1000	300-400	-
Banana	Fruit rot, Leaf spot	1000	300-400	-
Potato	Early blight, Late blight	1000	300-400	-
Tobacco	Downy mildew, Black sank, Frog eye leaf	1000	300-400	-
Tomato	Early blight, Late blight, Leaf spot	1000	300-400	-
Grapes	Downy mildew	1000	300-400	•
Coconut	Bud rot	1000	300-400	•
Coffee	Black Rot, Rust	1500-3000	300-400	-
Betel	Foot Rot, Leaf Spot	1000	300-400	-























Tomato: Early and Late Blight

Rice Brown Leaf Spot



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KAGUYA

(CARBENDAZIM 12% + MANCOZEB 63% WP)

BROAD SPECTRUM SYSTEMIC AND CONTACT COMBINATION FUNGICIDE

- KAGUYA is combination chemistry where as Carbendazim is from Benzimidazole and Mancozeb is from Dithiocarbamates.
- KAGUYA is recommended on various crop for control of many diseases.
- · KAGUYA is preventive & curative fungicide with multi-site action on fungus.
- KAGUYA ensures double protection from systemic & contact action.



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





KAGUYA

Features:

- KAGUYA due to its multiple mode of action does not develop the resistance in fungus till date.
- KAGUYA is used in various way such as seed treatment, soil drenching, rhizome / tuber dipping and foliar sprays.
- KAGUYA acts by inhibiting the development of fungal germ tube, formation of appressoria and growth of mycelia, also cause disturbance in fungal enzyme functioning.
- ✓ **KAGUYA** is effective against a wide range of fungal diseases in various crops.

Application and Dosage Recommendations :

Approación ana Besage Meconimistrations :				
Crop		Dosag	Waiting	
	Names of Diseases	Formulation (gm)	Dilution in water (litres)	Period (In Days)
Potato	Early blight, Late blight, Black Scurf	700	200	47
Paddy	Blast	300	300	57
Groundnut	Leaf spot, Blast	200	200	72
	Tikka Leaf spot, Collar rot & Dry Root rot	2.5g/kg seeds	-	Seed dresses
Chilli	Leaf spot, Fruit rot & Powdery mildew	300	200	3
Mango	Powdery mildew, Anthracnose	1.5g/ltr water	As required depending on crop canopy	7
Grapes	Downey mildew, Powdery mildew, Anthracnose	1.5g/ltr water	As required depending on crop canopy	7
Tea	Blister blight, Grey blight, Red rust Dieback, Black rot	500	100-200	7









Powdery mildew

Leaf spot

Early blight

Anthracnose 100







(HEXACONAZOLE 5% SC)

SYSTEMIC AND CONTACT FUNGICIDE

- **KINKI** belongs to triazole group of fungicide. It is highly systemic fungicide having protective and curative action.
- KINKI is useful for controlling Powdery mildews, Rusts and Leaf spots in cereals, Oil seeds, horticultural and plantation crops and also for the effective control of Rice Sheath blight.
- KINKI is an ergosterol biosynthesis inhibitor there by controlling growth and reproduction of fungal pathogens by inhibiting the cell wall formation process the fungus loose its ability to penetrate and form hyphae.
- KINKI has low toxicity to mammals, fish, birds, and beneficial insects.
- KINKI is to be applied at early infestation stages when only 2 to 3 % of leaf area is covered with fungal infestation.









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Packing: 100ml, 250ml, 500ml, 1ltr, 5ltr





KINKI[™]

- KINKI is aqua based formulation provides good leaf surface coverage there
 by provides control against the pathogens for a longer duration.
- ✓ KINKI is compatible with commonly used pesticides except with lime. sulphur, bordeaux mixture or a alkaline solutions.
- KINKI is highly cost effective fungicide for leaf spot diseases and can be applied near root zone.
- KINKI is a trizole fungicide which has very good compatibility with strobulin fungicide and gives longer protection under continuos fungal attack.
- ✓ **KINKI** molecule is effective till date and no resistance is reported against it.

${\bf Application} \ and \ {\bf Dosage} \ {\bf Recommendations} :$

		Dosag	Waiting	
Crop	Disease	Formulation (ml)	Dilution in water (litres)	Period (In Days)
Mango	Powdery Mildew	2ml/ltr	as required	27
Rice	Sheath Blight	200	100ltr	40
Grapes	Powdery mildew	200-400/200ltr	200ltr	14



Powdery mildew of Mango



Sheath Blight



Powdery mildew of Grapes



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MASANORI

(TRICYCLAZOLE 18%+MANCOZEB 62% WP)

CONTACT AND SYSTEMIC FUNGICIDE

- MASANORI is a combination of triazole and dithiocarbamate group of fungicide.
- MASANORI controls of Rice blast, Brown leaf spot and Grain discoloration.
- · MASANORI is a combination fungicide with systemic and contact action.
- MASANORI Mancozeb present in the MASANORI is a protectant fungicide
 that prevents the fungus from penetrating into plant cells, where as Tricyclozole
 being systemic in nature, rapidly absorbed by the plants and translocated
 acropetally to protect internally.
- MASANORI is best applied at leaf blast and neck blast stage.



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





MASANORI

- MASANORI is developed to have multiple mode of action targeting several sites of fungus thus it is not easy to develop resistance in fungi as well as it gives longer residual effect under continuos fungal attack even in adverse climatic conditions.
- MASANORI is a systemic and contact fungicide with Prophylactic and Curative action. It is to be used as a preventive application.
- MASANORI is safe for environment, mammals, beneficial insects and soil microbes.

Application and Dosage Recommendations					
		Dosag	Dosage / Acre		
Crop	Disease	Formulation (gm)	Dilution in water (liters)	Waiting Periods (in days)	
Rice	Brown Spot (Helminthosporium Oryzae) Blast (Pyricularia Oryzae) Grain Discoloration (Helminthosporium, Rhizoctonia, Pyricularia, Alternaria)	400-500	200-250	25	



Leaf blast





Brown Leaf spot



Grain discoloration 104



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MOYASHI[™]

(THIOPHENATE METHYL 70%WP)

SYSTEMIC FUNGICIDE HAVING PREVENTIVE AND CURATIVE ACTION

- MOYASHI is broad spectrum systemic fungicide belongs to Benzimidazole group.
- MOYASHI is recommended on several crops like Apple, Grapes, Vegetables,
 Pulses and Papaya. It is good fungicide for Anthracnose, Apple Scab, Powdery Mildew
 and several Leaf Spot diseases.
- MOYASHI is a systemic fungicide having preventive and curative action. It is quickly absorbed by plants and translocated into the system. It prevents fungus penetration and lesions formation and shows very good curative effects on fungal diseases.
- MOYASHI acts on fungal reproductive system due to which fungal cell division and development is affected.
- MOYASHI has a wide window of application used as a seed treatment, rhizome / tuber dip, soil drenching and foliar spray.



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





MOYASHI™

- ✓ MOYASHI is highly cost effective and successful fungicide for the three decades.
- MOYASHI having sulphur in atomic form thus exhibits good phytotonic and antifungal effects on plants.
- MOYASHI is a perfect solution for Anthracnose, Cercospora leaf spot, Powdery mildew and Scab disease.
- ✓ **MOYASHI** is compatible with most of the fungicide and isecticide used in crops.
- MOYASHI quickly and uniformly dissolves in water.
- MOYASHI is safe for environment and users.

Application and Dosage Recommendations					
	Disease	Dosag	Waiting		
Crop		Formulation (gm)	Dilution in water (liters)	Periods (in days)	
Papaya	Powdery Mildew	286	300-400	4-8	
Apple	Scab	286	300-400	3	
Bottle Gourd	Anthracnose	572	300-400	1	
Grapes	Powdrey mildew, Anthracnose, Rust	286	300-400	7	



Rust

Anthracnose



Ring rot

Powdery mildew



Sheath blight





NOYAKU™

(AZOXYSTROBIN 23% SC)

SYSTEMIC FUNGICIDE HAVING PREVENTIVE, CURATIVE AND ERADICATIVE ACTION

- · NOYAKU belongs to strobilurin group of fungicide
- NOYAKU is recommended on several crops like Potato, Chilli, Grapes and Tomato to control both phycomycetes and deuteromycetes class of fungus like Powdery mildew and Downy mildew.
- NOYAKU disrupt the electron transport chain by binding the Qol site of complex III within mitochondria this will affect the respiration of the fungi.
- NOYAKU is a strobilurin fungicide with protectant, curative, eradicant and antisporulant actions work very effectively against fungal pathogens.
- NOYAKU is a highly systemic fungicide rapidly absorbed by the plant and provides protection for longer period.











107 Packing: 15ml. , 50ml. , 200ml. , 500ml. , 1ltr





NOYAKU[™]

- NOYAKU is the latest discovery and most popular fungicide molecule.
- NOYAKU is used to breakdown the resistance due to the different mode of action compared to conventional fungicides.
- ✓ NOYAKU can be used under multiple disease syndrome attacking plant at same time this saves money as well as time in disease management system.
 - NOYAKU is compatible with the commonly used agrochemicals.
 - NOYAKU it has the ability to control advance stages of the fungus.

Application and Dosage Recommendations:

		Dosa	ge/Acre	Waiting
Crop	Name of Diseases	Formulation (ml)	Dilution in water (litres)	Periods (in days)
Grapes	Downy mildew, Powdery mildew	200	200 - 300	7
Chilli	Fruit rot, Powdery mildew	200	200 - 300	5
Mango	Anthracnose, Powdery mildew	0.10% or 1ml/ltr	200 - 300	5
Tomato	Early & Late blight	200	200	5
Potato	Late Blight	200	200	12
Cucumber	Downy mildew, Powdery mildew	200	200	5
Cumin	Blight, Powdery mildew	200	200	28
Pomegranate	Leaf & Fruit spot	0.10% or 1ml/ltr	200 L/acre or depending on size of tree	5



Late blight





Fruit Powdery Fruit rot mildew spot







PIKAPIKA

(PROPICONAZOLE 25% EC)

SYSTEMIC FUNGICIDE HAVING PREVENTIVE AND CURATIVE ACTION

- PIKAPIKA belongs to triazole group of fungicide.
- PIKAPIKA is recommended on several crops like Groundnut, Paddy, Wheat and Soybean on Rust bunt, Sheath blight and Leaf spot diseases.
- PIKAPIKA affect the cell wall formation of fungal cell by inhibiting the ergosterole formation thus fungus loose its penetration ablility and cannot grow inside the plant.
- PIKAPIKA a protectant and curative fungicide to be used as prophylactic at early stage of fungal disease development.
- PIKAPIKA is also having growth regulatory effects and impart the shining effect on grains of cereal crops.











Packing: 250ml, 500ml, 1ltr





PIKAPIKA

PIKAPIKA is a highly systemic, most efficient and cost effective fungicide helps crop to achieve maximum yield potential, as well crop quality. PIKAPIKA is compatible with commonly used pesticides except with lime,

sulphur, bordeaux mixture or alkaline solutions.

PIKAPIKA is rapidly absorbed and translocated through the xylem and active ingredient will remain within the plant tissue and prevent it from being washed off. PIKAPIKA has the ability to stay inside the leaves for longer duration and it participate on mechanism to prevent continuos fungal infection even under rain fall conditions.

Application and Dosage Recommendations :					
	Disease	Dosa	Waiting		
Crop		Formulation (ml)	Dilution in water (litres)	Periods (in days)	
Wheat	Karnal bunt, Leaf rust / Brown Rust, Stem rust, Stripe / Yellow rust	200	300	30	
Rice	Sheath blight	200	300	30	
Groundnut	Early & Late leaf spot, Rust	200	300	15	
Теа	Blister blight	50-100	70-100	7	
Soybean	Rust	200	200	26	
Cotton	Loof anot	200	200	22	



Sheath blight



Late Leaf spot



Rust



Leaf spot





SAIKIN™

(TRICYCLAZOLE 75% WP)

BROAD SPECTRUM SYSTEMIC FUNGICIDE

- SAIKIN is belongs to Trizole chemical group.
- SAIKIN is very effective fungicide used to control the Blast disease in rice.
- SAIKIN rapidly absorbed and translocated systemically in plants and provides longer duration control.
- SAIKIN inhibits melanin biosynthesis does not allow blast fungal spore to enter the rice plant.
- SAIKIN should be sprayed at the initial blast development of the leaf called Leaf blast stage followed by its application before the symptoms visible on neck.
- SAIKIN reduces the chaffy & broken grains and also increases the quality & yield of the Rice crop.
- SAIKIN should be used as preventive on Basmati Rice meant for Export purpose and PHI of 30 days to be maintained.



Packing: 120g, 250g





SAIKIN™

- SAIKIN is a highly systemic fungicide which provides effective control of Leaf blast, Node blast and Neck blast in Rice.
- SAIKIN can be applied as preventive spray starting from Nursery to mature crop stage or immediately after appearance of Blast symptoms.
- ✓ SAIKIN has not developed the resistance among the blast races in India.
- SAIKIN is compatible with commonly used pesticides. It is not compatible with lime sulphur and Bordeaux mixture or alkaline solutions.

Application and Dosage Recommendations :				
Crop		Dosa	Waiting	
	Disease	Formulation (g)	Dilution in water (litres)	Periods (in days)
Paddy	Blast	120-160	200	30



Collar blast



Leaf blast Neck blast



Node blast





SATSUMA

(MANCOZEB 75% WP)

CONTACT FUNGICIDE FOR PREVENTING CONTROL

- SATSUMA belongs to dithiocarbamete group of fungicide.
- SATSUMA is recommended on several crops against wide varieties of disease complex.
- SATSUMA react with sullfhydryl groups of amino acid and enzymes within
 fungal cells resulting in disruption of lipid metabolism, respiration and
 production of adenosine triphosphate due to its multi site action fungas are
 unable to develop resistance against it even if continuos and regular use.
- SATSUMA is a pure contact fungicide effective before fungal penetration inside
 the leaf hence the application should be carefully plant when maximum spore are
 falling on leaves under whether conditions.



Packing: 250g, 500g, 1kg



SATSUMA

- SATSUMA is used as foliar sprays, seed treatment and nursery drenching in various crops.
- ✓ SATSUMA along with disease control satsuma provides Manganese and Zinc nutrition to the crop.
- SATSUMA has good compatibility with commonly used agrochemicals.
- SATSUMA can control many fungus belongs to phycomycetes, ascomycetes and deuteromycetes group of fungi only when it is applied at right stage.
- ✓ SATSUMA being cost effective is still a popular choice among farmers of india.

Application and Dosage Recommendations:

		Dosage	Waiting	
Crop	Names of Diseases	Formulation (gm)	Dilution in water (litres)	Periods (in days)
Potato	Late Blight, Early Blight	600 - 800	300	-
Tomato	Late Blight, Buck eye rot, Leaf spot	600 - 800	300	-
Wheat	Brown, Black Rust	600 - 800	300	-
Maize	Leaf blight, Downy mildew	600 - 800	300	-
Paddy	Blast	600 - 800	300	-
Jowar	Leaf spot	600 - 800	300	-
Banana	Tip rot, Sigatoka leaf spot, Cigar end rot	600 - 800	300	-
Apple	Scab, Sooty Blotch	30 gm/tree	10 ltr/tree	-
Grapes	Angular leaf spot, Downy Mildew, Anthracnose	600 - 800	300	-
Guava	Fruit rot	20 gm/tree	10 ltr/tree	-
Groundnut	Tika diseases, Rust	600 - 800	300	
Cauliflower	Collor Rot	1200	400	
Caulillower	Leaf Spot	600-800	300	
Cumin	Blight	600-800	200	
Chilli	Damping off	1200	400	
	Fruit rot, Ripe rot, Leaf Spot	600-800	300	











SODATSU™

(CYMOXANIL 8% + MANCOZEB 64% WP)

SYSTEMIC AND CONTACT FUNGICIDE

- SODATSU is a combination product from Acetamide and Ethylene bisdithiocarbamate chemistry
- SODATSU is a systemic and contact fungicide for control of grape downy mildew and late blight of potato and tomato.
- SODATSU is highly effective and specific on Oomycetes (water moulds) Fungi which is not easily control by other fungi.
- SODATSU is a prophylactic and curative fungicide and capable to penetrate inside the plant cell and stop hyphae development.



Packing: 100g , 250g , 300g , 600g , 1.2kg





SODATSU™

- ✓ SODATSU is locally systemic action supplements the effectiveness of companion fungicides, especially during periods of intensive disease pressure.
 ✓ SODATSU is relative safer to mammals, fish aquatic invertebrates, birds, bees and earthworms.
- SODATSU exhibits unique multi-site action, which leads to low disease resistance development.
- SODATSU can be used alternatively with strobulirin and other mode of action to have better disease management strategy.
- ✓ **SODATSU** is compatible with other fungicides and insecticides.

Application and Dosage Recommendations :

Crop		Dosage/Acre		Waiting	
	Disease	Formulation (gm)	Dilution in water (liters)	Periods (in days)	
Grapes	Downy Mildew (Plasmopara viticola)	600-800	200-400	10	
Potato	Late Blight (Phytophthora infestans)	600	200-300	10	
Tomato	Late Blight (Phytophthora infestans)	600	200-300	10	
Cucumber	Downey mildew (Pseudoperonospora cubensis)	600	200-240	10	
Citrus	Gummosis (Foot rot) (Phytophthora palmivora)	2.5g/Ltr water or Linseed oil	10L/water, 50ml (linseed oil)/tree	82	



Late blight



Downey mildew



Gummosis



Powdery mildew

(116)





SUKOYAKA

(AZOXYSTROBIN 11% + TEBUCONAZOLE 18.3% SC)

A NOBEL COMBINATION FUNGICIDE WITH SYSTEMIC ACTION

- SUKOYAKA is combination fungicide from Strobilurin and Triazole group of chemistry.
 SUKOYAKA is a recommended on Paddy for Sheath blight and Chilli for Powdery mildew, Root rot and Die back however due to broad spectrum activity it can control many fungal diseases affecting various crop.
- SUKOYAKA is having Contact action on fungi and does not allow fungus germ tube formation as a preventive use, It can be also used as a curative fungicide after fungal penetration inside the leaves due to its systemic action.
- SUKOYAKA having Azoxystrobin is prevent respiration of fungi and Tebuconazole is an
 Ergosterol inhibitor thus preventing cell wall formation of fungi.
- SUKOYAKA has wider application and can be applied as preventive and curative.
- SUKOYAKA impacts positively on the physiological activity of the applied crop by improving the yield & quality of the produce.



















SUKOYAKA

- SUKOAYAKA is combination of two most powerful molecules used worldwide and so far no resistance is reported against them in India.
- SUKOAYAKA has favourable toxicological profile and does not harms beneficial
- SUKOAYAKA due to dual mode of action has capacity to control tough fungal diseases and has longer residual action.
- SUKOAYAKA due to systemic action can be used under adverse environmental
- SUKOAYAKA is ideally compatible with regularly used insecticides and Fungicides.

Application and Dosage Recommendations:

Crop		Dosag	Waiting	
	Disease	Formulation (ml)	Dilution in water (liters)	Periods (in days)
Potato	Early blight (Alternaria solani), Late blight (phytophora infestans)	300	200	-
Wheat	Yellow rust (Puccinia striformis)	300	200	-
Tomato	Early blight (Alternaria solani)	300	200	7
Rice	Sheath blight (Rhizoctonia solani)	300	320	-
Onion	Purple blotch (Alternaria porri)	300	320	7
Chilli	Fruit rot Powdery mildew Dieback	240	200-300	5











Fruit rot

Early blight Sheath blight Powdery mildew





TEBURA

(TEBUCONAZOLE 25.9% EC)

SYSTEMIC FUNGICIDE HAVING PREVENTIVE AND CURATIVE ACTION

- TEBURA is a broad spectrum systemic fungicide from Triazole chemistry.
- TEBURA is effective against various fungal diseases in crops like Rice, Chillies, Groundnut, Fruits, Vegetables and other field crops.
- TEBURA affect the cell wall formation of fungal cell by inhibiting the ergosterole formation thus fungus loose its penetration ablility and cannot grow inside the plant.
- TEBURA is a protective, curative and eradicative fungicide.
- TEBURA rapidly absorbed by the plants and translocated acropetally in the plant system through xylem.



















TEBURA

- TEBURA acts as a systemic fungicide. Demethylase inhibitors (DMI) interfere in the process of building the structure of the fungal cell wall.
- **TEBURA** inhibit the reproduction and further growth of the fungi.
- TEBURA to be used as preventive and curative application for effective in disease management.
- **TEBURA** is compatible with most of the insecticides and fungicides
- **TEBURA** is safe for environment, mammals and beneficial insects.
- **TEBURA** exhibit good Phytotonic effect in various crops.
- TEBURA along with effective disease control improves quality and quantity of the produce.

Application ar	nd Dosage Recommer	ndations :		
		Dosag	Waiting	
Crop	Disease	Formulation (ml)	Dilution in water (liters)	Periods (in days)
Rice	Blast, Sheath Blight	300	200	10
Chilli	Powdery Mildew, Fruit Rot	200-300	200	5
Groundnut	Tikka and Rust	200-300	200	49
Onion	Purple blotch	250-300	200	21
Soybean	Anthrocnose (Pod blight)	250	200	14
Black gram	Leaf spot, Anthrocnose	300	200	17









Fruit rot

Rust

Purple blotch 120





YAMATO[™]

(CARBENDAZIM 50% WP)

CONTACT AND SYSTEMIC FUNGICIDE FOR PREVENTIVE DISEASE CONTROL

- YAMATO belongs to benzimidazole group of fungicide.
- YAMATO is effective against a wide range of pathogenic fungi in various crops.
- YAMATO acts by inhibiting the development of fungi by interfering with spindle formation at mitosis cell division stage.
- YAMATO is systemic fungicide with protective and curative action.
- YAMATO has very good compatibility with commonly used agro chemicals.







YAMATO

- ✓ YAMATO is a contact and systemic fungicide.
- YAMATO is highly cost effective and widely used as a combination with other mode of action fungicides.
- ✓ YAMATO is used in various ways i.e., soil drench, soil mixture and foliar spray.
 - YAMATO is compatible with other fungicides and insecticides.
- YAMATO as a advantage of multi side action as well as sepicific sites this helps in resistance management.

Application and Dosage Recommendations :

		Dosage/Acre			
Crop	Names of Diseases	Formulation (gm)	Dilution in water (litres)	Remarks	
Paddy	Blast	100 - 200	300		
1 addy	Sheath Blight	2 gm/kg seed	1 lit/10 kg seed	Wet slurry treatment	
Wheat,Barley	Loose smut	2 gm/kg seed	1 lit/10 kg seed	Wet slurry treatment	
Cotton	Leaf spot	100	300		
Jute	Seedling blight	2 gm/kg seed	1 lit/10 kg seed	Wet slurry treatment	
Walnut	Downy leaf spot	3	10 ltr/tree		
Sugar beet	Leaf spot,Powdery mildew	80	160		
Peas	Powdery mildew	100	240		
Cluster beans	Powdery mildew	140	300		
Cucurbits	Powdery mildew, Anthracnose	120	240		
Chillies	Damping off	2 gm/kg seed	1 lit/10 kg seed	Wet slurry treatment	
Brinjal	Leaf spot, Fruit rot	120	240		
Apple	Scab	2.5g/Ltr water	10 ltr/tree		
Grapes	Anthracnose	120	240		
Walnut	Downy leaf spot	3	10 ltr/tree		
Rose	Powdery mildew	1	2 ltr		
Ber	Powdery mildew	10	10 ltr/tree		
Moong	Leaf spot, Web blight	100 - 200	300		
	Powdery mildew	200	300		
Tobacco	Frog eye spot, Anthracnose	90	300		





$NOZAWA^{\text{m}}$

(THIFLUZAMIDE 24% SC)

Nozawa: It effectively controls Rhizoctonia solani fungus which is major cause sheath blight in paddy.

Nozawa: It is rapidly absorbed by roots and leaves and translocated in xylem and apoplast throughout the plant.

Nozawa: It is used to control sheath blight disease of Rice; Early blight on Toamto and Black scruf on Potato.







$NOZAWA^{TM}$

NOZAWA is a systemic fungicide with both preventive and curative action. It is highly effective in controlling SheathBlight diseases in standing crop of paddy.

DESCRIPTION:

NOZAWA should be used as a preventive or before development

Application and Dosage Recommendations :					
		Dosag	e/Acre	Waiting	
Crop	Disease	Formulation (ml)	Dilution in water (liters)	Periods (in days)	
Potato	Black scruf (As seed treatment)	2.5 ml/10kg potato tuber	-	Used as seed treatment in potato	
Tomato	Early blight	200	200	7	
Rice	Sheath blight, Rhizoctonia	150	200	28	











125

YOUR SUPPORT-OUR TRUST



KAZASHI™

(ISOPROTHIOLANE 40%EC)

• **Kazashi:** is a systemic fungicide approved for the cotrol of blast disease in rice crop





GENUINE QUALITY REASONABLE PRICE



KAZASHI[™]

DESCRIPTION:

KAZASHI (Isoprothiolane 40% EC) belongs to dithiolane group. It is a systemic fungicide with curative and protective action. The chemical is absorbed by the leaves and roots and translocate acropetally and basipetally.

MODE OF ACTION:

KAZASHI gets absorbed by the plant and accumulated in the leaf tissues to avoid bacterial invasion, hinder bacterial metabolism and hence inhibits bacterial growth.

FEATURES & BENEFITS:

- KAZASHI is a synergistic systemic fungicid with two-way transmission.
- KAZASHI can be applied both as preventive and curative.
- **KAZASHI** is an excellent product to control paddy blast.

RECOMMENDATIONS:

Crop	Disease	Dosage (ml /Acre)	Dilution in water (liters)	Waiting periods (in days)
Paddy	Blast	300	200-400	60











YOUR SUPPORT-OUR TRUST



SAYAKA[™]

(PICOXYSTROBIN 7.05% + PROPICONAZOLE 11.71% SC)

Sayaka: A systemic multifunctional fungicide with strong preventive and curative action

Sayaka: A Unique Combination Of Very Powerful And Good

Fungicide Chemistry Strobilorin And Triazole

Sayaka: An early stage fungicide used to control paddy sheath blight and rust disease of wheat.





GENUINE QUALITY REASONABLE PRICE



SAYAKA[™]

Sayaka: is a new generation molecule.lt gives complete solution for Rice Sheath Blight, False Smut, and wheat Yellow rust.

Sayaka: increases the quality of grains and also the yield.

Application and Dosage Recommendations :

		Dosage/Acre		Waiting	
Crop	Disease	Formulation (ml)	Dilution in water (liters)	Periods (in days)	
Paddy	Sheath blight, False smut	400	200	24	
Wheat	Yellow rust	400	200	52	



Sheath Blight



Rust Disease



YOUR SUPPORT-OUR TRUST



SASAGE™

(SULPHUR 80% WDG)

Disease resistant and disease curing contact fungicide

Use sasage of IFFCO-MC Protects crop from disease











GENUINE QUALITY REASONABLE PRICE



SASAGE[®]

- sasage is made up of sulphur technical with 80% of active inrradient it is used to prevent fangal disease in plant.
- sasage is a broad spectrum contact fungicide which is preventive in nature.it also provide sulphur to the plant which is an essntial for the plant.
- sasage controls fungal spots, leaf spot and rust.
- sasage controls fungal disease in grapes,mango, peas, cowpea, apple, cumin etc.

Specialties

- sasage is a dust free flowable micronized sulphur granule which is easy to measure application.
- sasage getdissolve instantly in water and spreads upon the foliage quickly and escape leaf burn.
- sasage is a fungicide,micronutrient (sulphur) and mitide and has a triple action.
- . sasage long control for a longer period.
- . sasage application is safe against sport and buring on leaf and fruits.

Application and Dosage Recommendations :				
		Dosage/Acre		Waiting
Crop	Disease	Formulation (gram)	Dilution in water (liters)	Periods (in days)
Grapes	Powdery Mildew	750-1000	300-400	-
Mango	Powdery Mildew	750-1000	300-400	-
Wheat	Powdery Mildew	1000	200	24
Cumin	Powdery Mildew	750-1000	300-400	-
Apple	Scab	750-1000	300-400	-
Cowpea	Powdery Mildew	750-1000	300-400	-
Guar	Powdery Mildew	750-1000	300-400	-
Pea	Powdery Mildew	750-1000	300-400	-

Directions for use

Its use is not recommended for those crops which are damaged by use of sulphur,for vegetables of cucurbits family and apple, pears and varieties of other fruits where the tamperature is equal or more than 85° F or 30° C

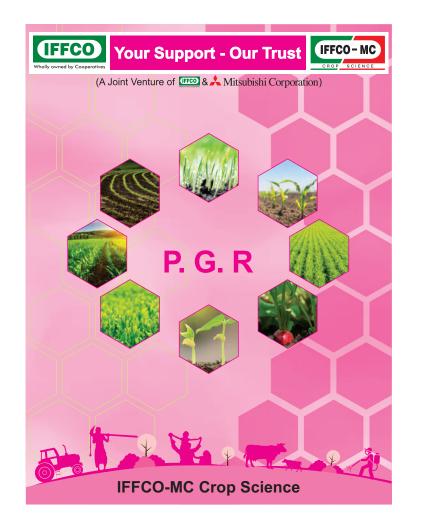
















YOUR SUPPORT-OUR TRUST



HUMETSU[®]

Use IFFCO-MC Humetsu[™] for healthy and robust crops.



131

Packing: 100ml, 250ml, 500ml, 1L



GENUINE QUALITY REASONABLE PRICE



HUMETSU[®]

- · Humetsu is a combination of naturally occurring organic substances and nutrients
- It is manufactured specially for the indian crop and agricultural environment cobditions
- Humetsu is obtained at Siberian Lionardites area from special natural feedstok, which
- itself is formed by natural decomposition processes happening since crores of year.

 Humetsu is quickly absorbed by the plan and active role in nutrient bio-chemical processes and furthe develops inherent strength in the plant, which helps then to withstand extreme climatic conditions.
- Humetsu is a condition of naturally occurring humic & fulvic acid. It is available as a
 mixture product with chelated Macro & Micro Nutrients (Nitrogen, Potash,
 Phosphorous, Zinc, Magnesium, Manganese, Iron, Boron, Molybdenum, Copper,
 Cobalt, Silicone)
- Humetsu can be used as an application mixture with ither agrochemicals and it is safe for the environment as well.

Benefits of the usage of Humetsu .

Improvement in the photosynthesis process

Micro nutrient elements are easily absorbed by the laminer surfaces of the plant/

Plant stresses arising due to abiotic factors are reduced

Seed treatment by Humetsu™ Apply 10 ml of Humetsu™ in 1 litre of water and prepare a uniform solution and then treat 1 Kg of seeds with that solution.

Root Treatment : Add 2ml Humetsu $^{\text{TM}}$ in 1 litre of water and treat roots before transplantation of the plants/ crops

Seed Dressing	Vegetative	Pre-reproductive
	*	¥
Seed treatment	New shoot & Primation root formation	Pre flowering, Seed grain filling stage, and initial ordination phase
	Use twice at an interval of 15 days	Apply once and in case of extreme climatic conditions repeat the dose application 10-15 days interval.

Application and Dosage Recommendations:

	l
Stage	Dosage
Seed Drassing	10 ml/kg seed
Foliar Application	400-600 ml/acre
Soil Drench	2 ml/L water or 1L/acre
Drip/Sprinkler Irrigation	500 ml to 800 ml/acre



YOUR SUPPORT-OUR TRUST



AMINOS®

IFFCO-MC Aminos ™ for healthy and robust crop



133 Packing: 100ml, 250ml, 500ml, 1L



GENUINE QUALITY REASONABLE PRICE





This product is made up of Free Amino acid, carbon and micronutrient elements. This is an ideal nutrient product for soil and crops. This treats any type of deficiency in soil.

- ★ Aminos[™] increases the production of chlorophyll and optimise the plant repiration and photosynthesis function of the plant
- Use of Amino[™] is recommended during Root develoment phase and initial development of the plant. This effectively controls the distribution and circulation of minerals in the plant. This helps in development of strong tissues by cell division and cell development processes.
- * This increases the yield during Biotic as will as Abiotic stress and increases the rhizosphere.

Recommendation for the crops.

(1) Aminos™ is used upon pods, cereal crops, root crops, cucurbits, leafy vegetables, vine crops, tropical and subtropical fruits and many other crops

Application method

- (1) For complete canopy coverage by the applied product, foliage application is recommended. For every 1 Liter of water for application only 1-1.5 ml of product is suggested. Aminos™ can be sprayed uniformly upon the crop can be mixes with other substances while appling
- (2) Amino[™] is for the complete nutrition of thr plants. Recommended dose of Aminos[™] per acre is 250-500 ml of the product.



YOUR SUPPORT-OUR TRUST



SHIGOTO-408[™]

SILICONE SUPER SPREADER

IFFCO-MC's SHIGOTO-408 for Healthy and High Yielding Crop



135

Packing: 50ml, 100ml, 250ml, 500ml, 1L



GENUINE QUALITY REASONABLE PRICE



SHIGOTO-408

SILICONE SUPER SPREADER

- ◆ SHIGOTO-408: Is a silicone based Non-lonic spray adjuvant which can be used with a broad range of agrochemical formulations.
- ◆ SHIGOTO-408 : Provides enhanced spreading of agrochemicals on the leaf surfaces leading to a better spray coverage.
- ◆ SHIGOTO-408: Most effective as a tank side adjuvant when used 24 hours within preparation of the spray solution with pH between 4.5 and 8.0.

APPLICATION

 Shigoto-408 is compatible with all calegory of agrochemicals that is Insecticide, Fungicide, Herbicide, Plant Growth Regulator, Fertilizer & Micronutrient.

DOSE

5ml per 15 lit of Spray solution.

- ◆ DIRECTION FOR USE: Strictly follow label instructions on tank filling of insecticide, fungicide, herbicide, plant growth regulator, fertilizer and micronutrient, but fill water volume to only 90%. Add Shigoto-408 mix thoroughly and add the remaining water.
- **◆ SAFETY PRECAUTIONS:**
 - Ensure the seal is intact at time of purchase and keep the container closed when not in use.
 - Wear suitable protective equipment like goggles and facemask.In case of eye contact, immediately flush eyes with water, continue washing for 15 minutes in emergency, obtain medical advice immediately.

CAUTION

Strictly follow the safety precautions as advised. Keep out of reach of children.

RESPONSIBLE USE OF PESTICIDE



Only use pesticides when needed. Get advise before buying pesticides and only purchase them at authorised retailers.





When storing pesticides make sure they are kept in a well-ventilated, securely locked place.





Carefully read the product label and leaflets and follow the instructions.





Check sprayer regularly for leaks and that nozzles work properly. Wear personal protection equipments while mixing and loading.



Triple rinse empty pesticide containers into the spark tank. Then puncture the container so it cannot be used for water or food storage. Take empty, rinsed containers to the nearest approval



While spraying pesticide, always wear personal protection equipment and only use calibrated equipment with no leaks. spray early in the morning or late in the evening when it is less windy. Do not eat, drink-orsmoke while spraying,



Do not spray pesticides near water source. Do not pollute the environment by misusing pesticides or leaving empty containers in the field.



After spraying pesticide, take a shower and put on clean clothes. Wash the spray equipment and personal protection equipment while protecting water source and the environment. Store all equipment separately and safely.



FIRST AID FOR PESTICIDE CONTAMINATION

INHALATION

If you accidentally breathe in pesticides, find a ventilated place where you are able to get some fresh air. Loosen your shirt and belt. If breathing stops, artificial respiration must be performed on the casualty using proper equipment.



SKIN

If pesticides get in contact with your skin, remove any contaminated clothing and wash the skin with abundant soap and water.



EYES

If pesticides get in contact with your eyes, wash with a gentle stream of cool clean water for at least 15 minutes. Wash each eve individually, from inside out, to prevent cross contamination.



MOUTH

If you accidentally swallow pesticides, you must seek medical help as quickly as possible. Do not drink anything. Keep calm and comfortable as much as you can and do not induce vomiting.



The meaning of Safety Symbols printed on pesticide bottles :



Always wear Eyeglasses



Keep out of the reach of children



Wash your face thoroughly



Keep away from reservoirs



Always wear gloves



Always wear shoes



Wear face mask on your face



Keep away from your pets



EXTREMELY TOXIC



DANGER

MODERATELY TOXIC



SLIGHTLY TOXIC

Notes	

- Note: Always use Flood Jet or Flat Fan nozzle for herbicide spray.
- Please read the enclosed label and leaflet before use and follow the given instructions.
- The Packages of product shall be disposed off in a safe manner so as to prevent environment and water pollution.
- **Disclaimer:** Since the storage and use of the products is beyond our control, we do not take any responsibility, other than the uniform quality of our products.
- The recommended dosages are as per www.cibrc.nic.in and registration certificates obtained by IFFCO-MC Crop Science and Trade Partners.

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