

ADAMA US CROP PROTECTION GUIDE



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WHO IS ADAMA?

Your Partner in Crop Protection.

Farming is more than just a business for our customers—it's a way of life. Our passion for agriculture propels us forward as we continuously bring new ideas to life to support growers. Through the winning combination of the personal relationships we build with our customers, understanding local requirements, and leveraging our capabilities, we deliver crop protection solutions you require today while anticipating your needs for the future.

Unique Solutions Bringing Value to You

With a team of people working on your behalf, product development and manufacturing capabilities, and a broad portfolio of active ingredients, the solutions we create help you manage your farming enterprise profitably. With ADAMA, you get unique chemistries and cost-effective crop protection alternatives that help you adapt to ever-changing field conditions.

Working Together Leads to Success

We learn from your experiences. You know first-hand what's going on and what's working—or not working. By looking at the issues from all vantage points, we translate those insights into solutions that work for your fields. We are here to assist you and contribute to your success.

Evolving Continually for You

We leverage our comprehensive portfolio of solutions to support you in the most impactful ways. Based on what we hear from you, we keep expanding and providing product solutions that meet your needs. No one else is as focused on developing new systems and flexible options that let you farm the way you want to.

Your Insights Power Our Solutions

Listening to you grows our knowledge and ability to deliver on our brand promise of Listen>Learn>Deliver. Our learning comes from integrating the information you share with the expertise we bring to the table. We harness our get-it-done approach and respond to your needs with new solutions and information relevant to your farming challenges.

WE DON'T TOLERATE WEEDS

Starting early is key to management of troublesome weeds and grasses in your fields. Herbicides from ADAMA work hard to prevent them from growing and also allow you to treat as needed during the growing season to maximize your harvest yields.

HERBICIDES

Advanced



Cotton

Cotoran® 4L / Fluometuron

Preemergence — Cotoran 4L combines improved crop safety & a broader spectrum of weed control to be the preferred preemergence broadleaf herbicide in cotton.

Container Size: 2 x 2.5 gal, 125 gal

Not registered in CA



Rice

Diverge™ Silk / Propanil

Postemergence — Diverge Silk is a unique herbicide offering rice growers improved reliability in handling and application, with reliable postemergence weed control without the hassle.

Container Size: 2 x 1 gal



Sorghum

FirstAct™ / Quizalofop

Postemergence — FirstAct herbicide is an integral part of the Double Team™ Sorghum Cropping Solution to help sorghum growers maximize return.

Container Size: 2 x 1 gal

Not registered in CA



Rice

Highcard™ / Quizalofop + safener

Postemergence — Highcard is a herbicide for use with the Max-Ace® Rice Cropping Solution for control of IML-resistant grasses and weedy rice, providing rotational flexibility and superior crop safety.

Container Size: 2 x 1 gal

Not registered in CA



Rice

Postscript™ / Imazamox*

Postemergence — Postscript provides excellent control of weedy rice, barnyardgrass & most other weeds in the FullPage® Rice Cropping Solution, as well as rotational plant-back flexibility.

Container Size: 2 x 1 gal

Not registered in CA



Rice

Preface™ / Imazethapyr*

Pre- & early postemergence — Preface provides excellent control of the most common & troublesome weeds, including red/weedy/feral rice, when used in the FullPage Rice Cropping Solution.

Container Size: 2 x 1 gal

Not registered in CA

*Following many years of continuous use of this product and chemically related products, weed biotypes have been reported which cannot be effectively controlled by Preface or Postscript and related herbicides. Any weed population may contain or develop plants naturally resistant to Preface and other Group 2 herbicides (ALS-inhibitors).

Advanced



Soybeans

Pummel® / Imazethapyr + Metolachlor

Pre- & early postemergence — With two modes of action & an extensive weed control spectrum, Pummel provides an alternative in the fight to control weeds that are resistant to PPO, glyphosate, HPPD or triazine herbicides.

Container Size: 2 x 2.5 gal, 270 gal

Not registered in CA



Soybeans

Torment® / Imazethapyr + Fomesafen

Pre- & early postemergence — Torment controls 65 grass & broadleaf weeds, including those resistant to glyphosate, HPPD or triazine chemistries. This herbicide provides up to six weeks of residual control.

Container Size: 2 x 2.5 gal

Not registered in CA

Essential



Roots



Potatoes



Soybeans



Fruiting Vegetables

+ more



Cereals



Corn



Rice



Soybeans (burndown only)



Sugarcane

+ more



Cereals



Corn



Soybeans (burndown only)

Arrow® 2EC / Clethodim

Postemergence — Arrow 2EC controls the most troublesome annual & perennial grass weeds in a wide range of crops.

Container Size: 4 x 1 gal

Defy® Amine 4 / 2,4-D

Burndown, pre- & postemergence — Defy Amine 4 is a non-volatile, premium formulation of 2,4-D that is labeled for use on a wide range of crops to provide selective control of many broadleaf weeds.

Container Size: 2 x 2.5 gal, 270 gal

Defy® LV-6 / 2,4-D

Burndown, pre- & postemergence — Defy LV-6 is a low volatile 2,4-D ester formulated for dependable weed control under a wide range of conditions.

Defy LV-6 has a high-load formulation that allows for efficient shipping & storage and is compatible in tank mixes and with many fertilizer & oil carriers.

Container Size: 2 x 2.5 gal, 270 gal

Not registered in CA

Essential



Cotton



Alfalfa



Stone Fruit



Pome



Citrus

+ more



Berries



Citrus



Stone Fruit



Pome



Grapes



Tree Nuts



Cotton



Citrus



Pome



Soybeans

+ more



Corn



Sugarcane



Soybeans (pre)



Tomatoes



Potatoes

+ more



Corn



Sugarcane



Potatoes



Tomatoes



Soybeans

Direx® 4L / Diuron

Pre- & postemergence — Direx 4L provides unmatched versatility, value & long-residual weed control, including control of many species that are resistant to glyphosate in row crops like cotton.

Container Size: 2 x 2.5 gal, 270 gal

Fugitive® / Oryzalin

Postemergence — Fugitive offers reliable preemergence control of grasses & small-seeded broadleaf weeds in vineyards, orchards & row crops.

Container Size: 2 x 2.5 gal

Galigan® 2E & Galigan® H20 / Oxyfluorfen

Pre- & postemergence — Galigan is a powerful residual broadleaf herbicide & an ideal tank mix partner with glyphosate or paraquat for long-lasting control of broadleaf weeds & many grasses.

Container Size: 2 x 2.5 gal

Glory® / Metribuzin

Pre- & postemergence — Glory controls a wide spectrum of grasses & broadleaf weeds.

Container Size: 4 x 5 lb, 2 x 25 lb

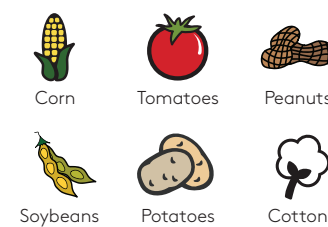
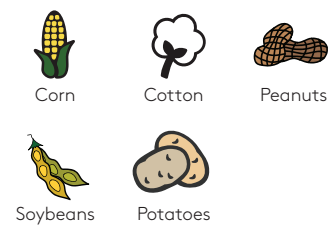
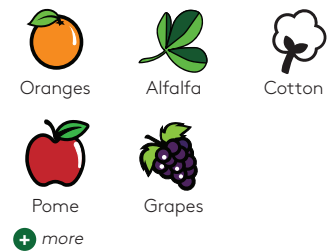
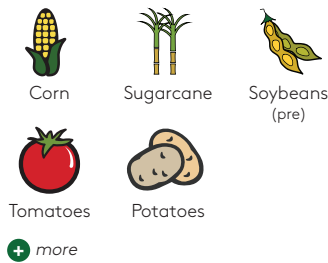
Glory® 4L / Metribuzin

Pre- & postemergence — Glory controls a wide spectrum of grasses & broadleaf weeds, all in a dust-free, easy-to-mix liquid formulation.

Container Size: 2 x 2.5 gal, 270

Not registered in CA

Essential



Glory® FDF / Metribuzin

Pre- & postemergence — Glory FDF provides rapid dissolving into the spray solution.

Container Size: 4 x 5 lb, 2 x 25 lb

Impose® / Imazapic

Postemergence — Impose provides highly effective & selective control of nearly 40 grasses, sedges & broadleaf weeds.

Container Size: 2 x 1 gal

Not registered in CA

Karmex® DF / Diuron

Pre- & postemergence — Karmex DF is a reliable herbicide that offers long-term residual control of a wide range of tough grasses & broadleaf weeds in perennial crops like citrus.

Container Size: 10 x 5 lb, 25 lb

Parallel® / Metolachlor + Safener

Pre- & postemergence — Parallel is designed for corn & provides outstanding control of grasses & small-seeded broadleaf weeds. It is ideal as a layered residual with pre- or postemergence use & can be tank mixed with a variety of broadleaf herbicides for broad-spectrum weed control.

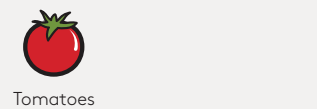
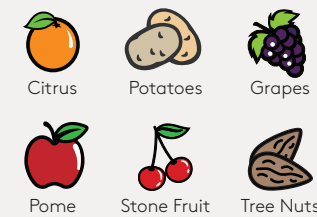
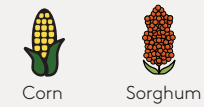
Container Size: 2 x 2.5 gal, 270 gal, Bulk

Parallel® PCS / Metolachlor

Pre- & postemergence — Parallel PCS is designed for corn & soybeans. It provides outstanding control of grasses & small-seeded broadleaf weeds. It is ideal as a layered residual for pre- or postemergence use & can be tank mixed with a variety of broadleaf herbicides for broad-spectrum weed control.

Container Size: 2 x 2.5 gal, 270 gal

Essential



Parallel® Plus / Metolachlor + Safener + Atrazine

Pre- & postemergence — Parallel Plus combines two of the best residual herbicides in corn for outstanding, economical control of a broad spectrum (or wide array) of weed species & is ideal for use in most herbicide trait systems.

Container Size: 2 x 2.5 gal, 270 gal, Bulk

Not registered in CA

Pruvin® / Rimsulfuron

Pre- & postemergence — Pruvion controls many troublesome grass & broadleaf weeds in potatoes, tomatoes & several other fruit & nut crops.

Container Size: 10 x 20 oz

Tailwind® / Metolachlor + Metribuzin

Preemergence — With two modes of action, Tailwind is formulated to deliver early-season control to manage many grasses and broadleaf weeds, including PPO, glyphosate, HPPD and ALS inhibiting herbicides.

Container Size: 2 x 2.5 gal, 260 gal

Not registered in CA

Vopak™ 3ME / Clomazone

Preemergence — Vopak 3ME provides strong preemergence control of a broad range of grasses and broadleaf weeds.

Container Size: 2 x 2.5 gal

Not registered in CA

Zurax™ L / Quinclorac

Preemergence, delayed preemergence, postemergence — Zurax L is an excellent foundation herbicide as well as a supplemental & residual tank-mix partner in rice for control of barnyardgrass & broadleaf weeds.

Container Size: 2 x 2.5 gal

Not registered in CA



DON'T LET INSECTS RUN THE WORLD

Be ready to effectively treat pest pressures in your fields as they emerge. Insecticides from ADAMA target different stages of development and provide you with options to prevent resistance issues.

INSECTICIDES

Advanced



Mushrooms

Armor® / Cyromazine
Armor insect growth regulator stops damage in mushrooms before it starts by controlling all larval stages & preventing sciarid fly adults from emerging.
Container Size: 2 x 2.5 gal

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Tree Nuts



Grapes

Apollo® SC / Clofentezine
Apollo SC is a long-lasting ovicide/miticide that delivers consistent residual control & flexible application timing. Its unique mode of action breaks the mite lifecycle by inhibiting egg respiration & stopping development in the first two larval stages. Excellent in an IPM rotation program.
Container Size: 3 x 4 x 1 qt

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Pome



Stone Fruit



Pome



Cucurbits



Fruiting Vegetables

Cormoran® / Novaluron + Acetamiprid
Cormoran controls the damaging life stages of a broad range of target pests. With two modes of action, Cormoran provides both knockdown & residual control in high-value crops. Excellent rotational chemistry.
Container Size: 2 x 2.5 gal, 4 x 1 gal

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Cotton



Potatoes



Strawberries



Cotton



Peanuts



Sorghum

Diamond® / Novaluron
As an insect growth regulator, Diamond breaks the life cycle of insects plus reduces adult female egg laying & egg viability to control plant bugs, stink bugs & caterpillars. Diamond is softer on adult beneficial insects when compared to other classes of insecticides & provides long-residual activity of target insects.
Container Size: 2 x 2.5 gal

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Soybeans



Sugarcane



Fruiting Vegetables



Stone Fruit



Pears

Diazinon 50W & AG500 / Diazinon
Diazinon 50W & Diazinon AG500 control severe infestations of aphids, mealybugs & other insects that damage crops & reduce fruit quality.
Container Size: 8 x 5 x 1 lb (50W), 2 x 2.5 gal (AG500)

Advanced



Fulfill® / Pymetrozine

Fulfill has a unique mode of action that inhibits feeding one to two hours after ingestion and results in aphid death. This systemic insecticide also has excellent activity against psyllid and other pests & helps prevent the spread of plant viruses.

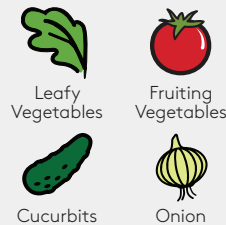
Container Size: 27.5 oz



Silencer® VXN / Lambda-Cyhalothrin

Silencer VXN is the only lambda-cyhalothrin brand with a ‘Caution’ signal word that delivers extended residual while rapidly controlling major economic pests on a wide variety of crops. Silencer VXN improves the user experience by simplifying handling & tank mixing.

Container Size: 4 x 1 gal, 125 gal

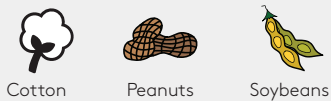


Trigard® / Cyromazine

Trigard penetrates leaves & controls leafminer larvae before they cause damage. Trigard is compatible with existing IPM programs.

Container Size: 17.955 lbs (18 x 6 x 2.66 oz)

Essential

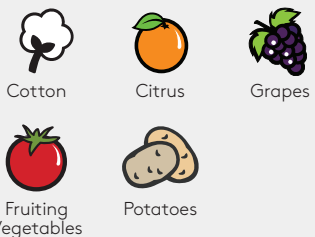


Acephate 90 Prill & 97 WDG / Acephate

Acephate provides consistent, economical control of thrips, plant bugs, aphids, fleahoppers, stink bugs & whiteflies.

Container Size: 8 x 5 lb, 2 x 20 lb, 2 x 10 lb

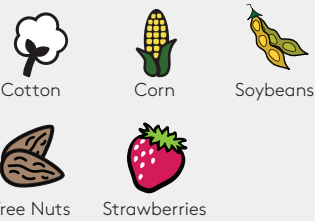
90 Prill not registered in CA



Alias® 4F / Imidacloprid

Alias 4F is a unique 4-lb formulation that provides long-lasting, economic control of whiteflies, aphids, glassy-winged sharpshooters & many more. In addition to other crops, it is also labeled for potato seed-piece or foliar applications.

Container Size: 4 x 1 gal, 4 x 1 qt



Fanfare® ES & EC / Bifenthrin

Fanfare ES & Fanfare EC provide quick knockdown of a broad range of soil & foliar pests. Fanfare ES, a low VOC (volatile organic compound) formulation, is an enhanced solution that performs like an EC with improved environmental impact & handling ease.

Container Size: 4 x 1 gal, 270 gal



Silencer® / Lambda-Cyhalothrin

Silencer provides fast knockdown activity & is labeled on more than 50 crops.

Container Size: 4 x 1 gal, 4 x 1 qt, 260 gal



STAND READY TO BATTLE DISEASES

Bacteria and fungi can affect your marketable yields. Be ready to fight with fungicides from ADAMA that offer disease control you can count on.

FUNGICIDES

Advanced



Fruiting Vegetables



Potatoes



Carrots



Peanuts



Tree Nuts



Cucurbits

+ more



Fruiting Vegetables



Peanuts



Cucurbits



Soybeans



Almonds



Stone Fruit

+ more



Potatoes

Bravo Ultrex® / Chlorothalonil

Bravo Ultrex is designed to adhere tightly to the leaf's surface, sticking & staying where it's sprayed for coverage you can count on, with good leaf adherence and overhead irrigation. Plus, the convenient water-dispersible granule formulation makes Bravo Ultrex easy-to-store & easy-to-use.

Container Size: 27.4 lb

Bravo Weather Stik® / Chlorothalonil

Bravo Weather Stik is a broad-spectrum foliar protectant fungicide labeled for use on fruits & vegetables. It has a unique & patented formulation that sticks & stays on the plant surface longer than any other preventative fungicide available.

Container Size: 2 x 2.5 gal, Bulk

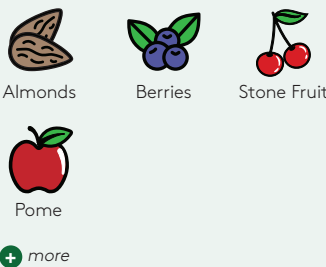
Bravo® ZN / Chlorothalonil

Bravo ZN offers potato growers control they can count on. Zinc is incorporated into this formulation as a micronutrient, which helps crops meet their full yield potential.

Container Size: Bulk

Not registered in CA

Advanced



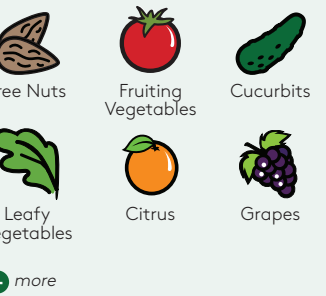
Captan Gold® 80WDG & 4L / Captan

Captan Gold is a broad-spectrum, contact fungicide that acts immediately to control fungal spores. Captan has more than 50 years of use with no documented case of resistance, making it an excellent tool for IPM programs.

Captan Gold’s premiere 80WDG formulation has less dust & easy-open packaging for an improved user experience; plus, it dissolves easily in water for optimum performance.

Captan Gold 4L is the only liquid captan formulation with a ‘Caution’ signal word.

Container Size: 8 x 6.25 lb, 20 lb, 30 lb (80WDG), 2 x 2.5 gal (4L)



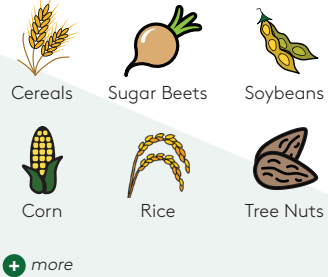
Mastercop® / Copper Sulfate Pentahydrate

Mastercop is a higher quality copper formulation that provides superior control & mixing without the coating of copper residues & soil toxicity.

The OMRI Listed® Mastercop label has been upgraded to include an increased rate for in-season fire blight control in apples of up to 2.5 pints per acre. Other updates include chemigation application, application to crops grown for seed, and the addition of gray mold and downy mildew to many already-labeled crops.

Container Size: 2 x 2.5 gal

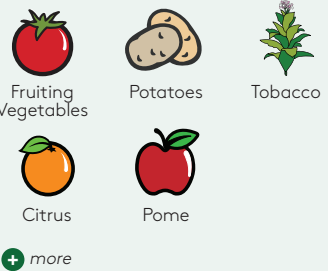
Essential



Bumper® 41.8 EC / Propiconazole

Bumper offers preventative & curative broad-spectrum disease control of leaf diseases on multiple crops including corn, wheat & soybeans.

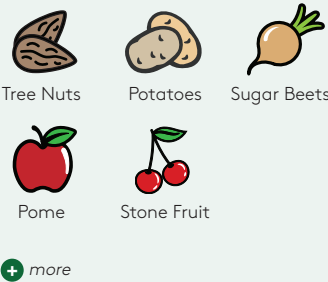
Container Size: 2 x 2.5 gal



Harbour® / Ag Streptomycin Sulfate

Harbour controls fire blight, bacterial stem & leaf rot, bacterial spot, bacterial blight, bacterial wilt, crown gall, potato soft rot & blackleg, tobacco blue mold & wildfire.

Container Size: 10 x 2 lb



Incognito® 4.5 F & 85 WDG / Thiophanate-Methyl

Incognito is a systemic, preventative & curative broad-spectrum fungicide for control of yield-robbing plant diseases.

Container Size: 2 x 2.5 gal, 270 gal, 5 lb (85 WDG)

HARVEST WHAT MATTERS THE MOST

Make harvesting easier and faster with harvest aids from ADAMA. From defoliation to earlier ripening and maturation, we're here to help.



HARVEST AIDS

Essential



Tomatoes



Grapes



Cherries



Apples



Walnuts

+ more

Ethephon 2SL / Ethephon

Growth Regulator — Ethephon 2SL promotes earlier ripening and maturation of a variety of fruit & nut crops. Ethephon accelerates ripening & drop of unharvested fruit.

Container Size: 4 x 1 gal, 2 x 2.5 gal



Cotton

Klean-Pik® 500 SC / Thidiazuron

Defoliant — Powerful defoliant that offers excellent tank-mix flexibility with boll openers like Setup®.

Container Size: 4 x 1 gal



Cotton

Redi-Pik® 1.5 EC / Thidiazuron + Diuron

Defoliant — Same great defoliation as Klean-Pik with faster action & reduced regrowth.

Container Size: 2 x 2.5 gal



Cotton

Setup® 6L / Ethephon

Boll Opener — Setup 6L opens nearly 98% of mature, unopened bolls within 7 to 14 days of treatment to help boost overall yield & harvestability.

Container Size: 2 x 2.5 gal, 270 gal

NEMATICIDE

Advanced



Fruiting Vegetables



Roots



Potatoes



Cucurbits



Sweet Potatoes



Strawberries

+ more

NIMITZ® / Fluensulfone

NIMITZ is a highly effective non-fumigant nematicide that provides selective control of plant-parasitic nematodes (PPN). By halting nematode feeding and reducing root damage, resulting pathogen infection, NIMITZ helps enhance root health & ongoing plant development.

Container Size: 2 x 2.5 gal

Protect your crop before harmful nematodes cause costly damage.

Fast-acting NIMITZ kills nematodes within 24–48 hours when applied pre-planting, and residual activity continues into the growing season. Apply NIMITZ for targeted nematode control, or choose the powerful combination of NIMITZ + metam to control nematodes, weeds and diseases. Listening to our customers has taught us that growers want both options, and we're delivering on what we've learned.

NIMITZ

For healthier crops and improved yield, NIMITZ is a highly effective, non-fumigant nematicide. It's applied pre-planting to target harmful nematodes—without affecting beneficial ones. And now, NIMITZ is registered for citrus, peaches and pecans!

NIMITZ simplifies every aspect of nematode control. It's easy to apply, with less stringent regulatory restrictions and reporting guidelines. No specialized equipment needed. No training required. No buffers. 12-hr REI. No Fumigant Management Plans or complicated PPE.

NIMITZ + Metam

To protect your crop from yield-robbing nematodes, weeds and soil-borne diseases, try the powerful combination of NIMITZ + metam (i.e. K-PAM® HL™). NIMITZ is a fast-acting, highly targeted nematicide with a unique mode of action, and metam is an effective, broad-spectrum soil fumigant for suppression of nematodes, weeds and diseases.



Save time and operational costs with a pre-mix tank application of NIMITZ + metam, or apply using the standard 15-day/7-day pre-plant application interval of NIMITZ and then metam. Talk to your local supplier to find out more.

THE HIDDEN ENEMY™

Don't let what you can't see damage your crops and limit your marketable yields. NIMITZ® from ADAMA helps you control harmful nematodes before it's too late.



RICE PORTFOLIO

	 	Herbicide for use in the FullPage® Rice Cropping Solution for control of troublesome weeds, powerful residual control. Application: preplant, pre- and postemergence.
	 	Herbicide for use in the FullPage Rice Cropping Solution for control of troublesome weeds with rotation flexibility. Application: postemergence, pre- and postflood.
		Herbicide for use in the Max-Ace® Rice Cropping Solution to provide growers with the strongest weed control, resistance management, crop safety, rotational flexibility and high potential for yield. Application: postemergence, pre- and postflood.
HERBICIDE	TARGET WEED	ACTIVE INGREDIENT HRAC CODE
Diverge™ EC	Annual Grasses, Broadleaf & Sedge Weeds	AI: Propanil HRAC Code: 5
Diverge™ Silk	Annual Grasses, Broadleaf & Sedge Weeds	AI: Propanil HRAC Code: 5
Highcard™	Barnyardgrass, Weedy/Red/Feral Rice, Signalgrass, Sprangletop	AI: Quizalofop + Safener HRAC Code: 1
Postscript™	Barnyardgrass, Weedy/Red/Feral Rice, Other Grasses	AI: Imazamox HRAC Code: 2
Preface™	Barnyardgrass, Weedy/Red/Feral Rice, Other Grasses	AI: Imazethapyr HRAC Code: 2
Vopak™ 3ME	Annual Grasses	AI: Clomazone HRAC Code: 13
Zurax™ L	Annual Grasses, Broadleaf Weeds	AI: Quinclorac HRAC Code: 4
INSECTICIDE	TARGET INSECT	ACTIVE INGREDIENT IRAC CODE
Silencer® VXN	Rice Stink Bugs, Rice Water Weevils	AI: Lambda-Cyhalothrin IRAC Code: 3A



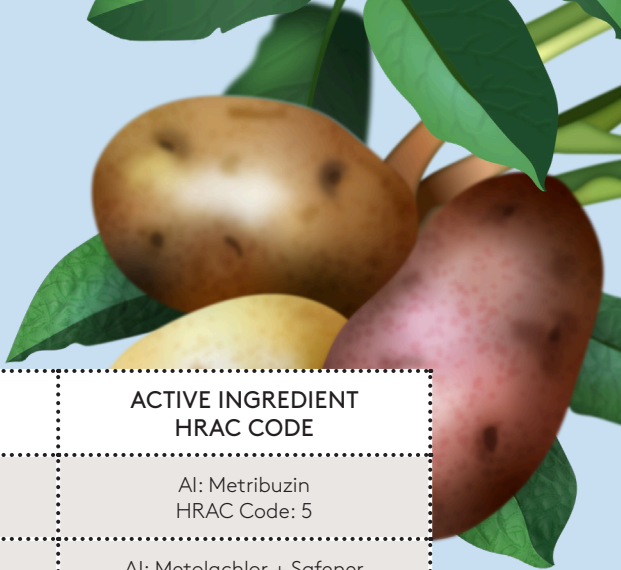
COTTON PORTFOLIO

HERBICIDE	TARGET WEED	ACTIVE INGREDIENT HRAC CODE
Cotoran® 4L	Florida Pusley, Grasses, Morningglory, Pigweed, Purslane, Sickle Pod & Others	AI: Fluometuron HRAC Code: 7
Direx® 4L	Florida Pusley, Grasses, Morningglory, Pigweed, Purslane, Sickle Pod & Others	AI: Diuron HRAC Code: 17
INSECTICIDE	TARGET INSECT	ACTIVE INGREDIENT IRAC CODE
Acephate®	Plant Bugs, Aphids, Fleahoppers, Stink Bugs, Caterpillars	AI: Acephate IRAC Code: 1B
Cormoran®	Pear Psylla, Codling Moth, Whiteflies, Aphids	AI: Novaluron + Acetamiprid IRAC Code: 15 + 4A
Diamond®	Plant Bugs, Cotton Fleahopper, Stink Bug Nymphs, Caterpillars	AI: Novaluron IRAC Code: 15
Fanfare® EC	Aphids, Plant Bugs, Stink Bugs, Bollworms, Fall Armyworm, Whiteflies	AI: Bifenthrin IRAC Code: 3A
Fulfill®	Aphids, Whiteflies	AI: Pymetrozine IRAC Code: 9B
Silencer® VXN	Aphids, Cotton Fleahopper, Two-Spotted Spider Mite, Stink Bugs, Thrips, Bandedwing Whiteflies, Bollworms	AI: Lambda-Cyhalothrin IRAC Code: 3A
HARVEST AID/PGR	TARGET	ACTIVE INGREDIENT
Setup® 6L	Boll Opener	AI: Ethephon
Klean-Pik® 500 SC	Cotton Defoliant	AI: Thidiazuron
Redi-Pik® 1.5 EC	Cotton Defoliant	AI: Thidiazuron + Diuron



PEANUT PORTFOLIO

HERBICIDE	TARGET WEED	ACTIVE INGREDIENT HRAC CODE
Impose®	Florida Beggarweed, Grasses, Morning Glory, Nutsedge, Pigweed, & Others	AI: Imazapic HRAC Code: 2
Parallel®	Broadleaf Weeds & Grasses	AI: Metolachlor HRAC Code: 15
Parallel® PCS	Broadleaf Weeds & Grasses	AI: Metolachlor HRAC Code: 15
INSECTICIDE	TARGET INSECT	ACTIVE INGREDIENT IRAC CODE
Acephate®	Foliage Feeding Caterpillars, Grasshopper, Leafhoppers, Thrips	AI: Acephate IRAC Code: 1B
Diamond®	Lesser Cornstalk Borer, Foliage Feeding Caterpillars, Grasshopper (nymphs only)	AI: Novaluron IRAC Code: 15
Silencer® VXN	Aphids, Caterpillars, Grasshoppers, Leafhoppers, Stink Bugs	AI: Lambda-Cyhalothrin IRAC Code: 3A
FUNGICIDE	TARGET DISEASE	ACTIVE INGREDIENT FRAC CODE
Bravo Weather Stik®	Early Leaf Spot, Late Leaf Spot, Pepper Spot, Rust, Web Blotch	AI: Chlorothalonil FRAC Code: M5
Incognito® 4.5F	Early Leaf Spot, Late Leaf Spot, Rust, Limb Rot, Web Blotch	AI: Thiophanate-Methyl FRAC Code: 1
Mastercop®	Leaf Spot	AI: Copper Sulfate Pentahydrate FRAC Code: M01



POTATO PORTFOLIO

HERBICIDE	TARGET WEED	ACTIVE INGREDIENT HRAC CODE
Glory® 4L	Grasses, Broadleaf Weeds	AI: Metribuzin HRAC Code: 5
Parallel®	Grasses	AI: Metolachlor + Safener HRAC Code: 15
Pruvin®	Grasses, Broadleaf Weeds	AI: Rimsulfuron HRAC Code: 2
INSECTICIDE	TARGET INSECT	ACTIVE INGREDIENT IRAC CODE
Alias® 4F	Aphid, Colorado Potato Beetle, Flea Beetle, Leafhopper, Potato Psyllid, Wireworm	AI: Imidacloprid IRAC Code: 4A
Cormoran®	Armyworms, Colorado Potato Beetle, Flea Beetle, Caterpillar, Leafhopper, Looper, Leafminer, Aphid, European Corn Borer, Potato Psyllid, Whitefly	AI: Acetamiprid + Novaluron IRAC Code: 4A + 15
Fulfill®	Aphid, Psyllid, Whitefly (suppression)	AI: Pymetrozine IRAC Code: 9B
Silencer® VXN	Aphid, Cutworm, Leafhopper, Caterpillar, Sweet Potato Hornworm, Armyworm, Colorado potato Beetle, European Corn Borer, Plant Bug, Potato Psyllid, Grasshopper, Weevil, Leafminer, Whitefly, Spider Mite	AI: Lambda-cyhalothrin IRAC Code: 3A
Trigard®	Leafminer, Colorado Potato Beetle	AI: Cyromazine IRAC Code: 17
NEMATICIDE	TARGET NEMATODE	ACTIVE INGREDIENT IRAC CODE
NIMITZ®	Plant-parasitic Nematodes	AI: Fluensulfone IRAC Code: UN
FUNGICIDE	TARGET DISEASE	ACTIVE INGREDIENT FRAC CODE
Bravo Ultrex®	Black Dot, Botrytis Vine Rot, Early Blight, Late Blight	AI: Chlorothalonil FRAC Code: M05
Bravo Weather Stik®	Black Dot, Botrytis Vine Rot, Early Blight, Late Blight	AI: Chlorothalonil FRAC Code: M05
Bravo® ZN	Black Dot, Botrytis Vine Rot, Early Blight, Late Blight	AI: Chlorothalonil FRAC Code: M05
Mastercop®	Early Blight, Late Blight	AI: Copper Sulfate Pentahydrate FRAC Code: M01



CUCURBIT PORTFOLIO

INSECTICIDE	TARGET INSECT	ACTIVE INGREDIENT IRAC CODE
Cormoran®	Whiteflies, Caterpillars, Squash Bugs	AI: Novaluron + Acetamiprid IRAC Code: 15 + 4A
Diazinon®	Cutworms, Wireworms	AI: Diazinon IRAC Code: 1B
Fulfill®	Aphids, Whiteflies	AI: Pymetrozine IRAC Code: 9B
Silencer® VXN	Armyworms, Cutworms, Cabbage Loopers, Plant Bugs, Squash Beetles, Weevils	AI: Lambda-Cyhalothrin IRAC Code: 3A
Trigard®	Leafminers	AI: Cyromazine IRAC Code: 17
NEMATICIDE	TARGET NEMATODE	ACTIVE INGREDIENT IRAC CODE
NIMITZ®	Plant-parasitic Nematodes	AI: Fluensulfone IRAC Code: UN
FUNGICIDE	TARGET DISEASE	ACTIVE INGREDIENT FRAC CODE
Bravo Weather Stik®	Downy Mildew, Powdery Mildew, Gummy Stem Blight, Leaf Spot, Anthracnose	AI: Chlorothalonil FRAC Code: M05
Incognito®	Hypocotyl Rot, Anthracnose, Powdery Mildew, Charcoal Rot, Gummy Stem Blight	AI: Thiophanate-Methyl FRAC Code: 1
Mastercop®	Angular Leaf Spot, Anthracnose, Downy Mildew, Powdery Mildew, Fruit Blotch*	AI: Copper Sulfate Pentahydrate FRAC Code: M01



WINE GRAPE PORTFOLIO

HERBICIDE	TARGET WEED	ACTIVE INGREDIENT HRAC CODE
Arrow®	Annual Grasses	AI: Clethodim HRAC Code: 1
Direx® 4L	Broadleaf Weeds	AI: Diuron HRAC Code: 7
Karmex® DF	Broadleaf Weeds	AI: Diuron HRAC Code: 7
Pruvin®	Broadleaf Weeds	AI: Rimsulfuron HRAC Code: 2
INSECTICIDE	TARGET INSECT	ACTIVE INGREDIENT IRAC CODE
Apollo® SC	Two-Spotted Spider Mite	AI: Clofentazine IRAC Code: 10A
Skyraider®	Twig Borer, Thrips, Mites, Aphids, Mealybugs, (other soil and foliar pests)	AI: Bifenthrin + Imidacloprid IRAC Code: 3 + 4A
NEMATICIDE	TARGET NEMATODE	ACTIVE INGREDIENT IRAC CODE
NIMITZ®	Plant-parasitic Nematodes	AI: Fluensulfone IRAC Code: UN
FUNGICIDE	TARGET DISEASE	ACTIVE INGREDIENT FRAC CODE
Captan Gold® 4L	Phomopsis Cane, Leaf Spot, Downy Mildew, Black Rot (suppression)	AI: Captan FRAC Code: M4
Incognito®	West of the Rocky Mountains: Botrytis Bunch Rot, Powdery Mildew East of the Rocky Mountains: Bitter Rot, Black Rot, Powdery Mildew	AI: Thiophanate-Methyl FRAC Code: 1
Mastercop®	Phomopsis, Powdery Mildew, Downy Mildew, Brown Rot	AI: Copper Sulfate Pentahydrate FRAC Code: M01



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