

California Crop Protection

Product Guide



As a leader in crop protection products, we balance innovation and improvement in efficiency and simplicity to bring you a focused product portfolio that saves time and delivers results.

nufarm.com/uscrop



BROMOXYNIL Fast and cost-effective broadleaf weed control

Maestro® 2EC

Maestro® 2EC is a 33.4% bromoxynil formulation that provides control of a variety of difficult broadleaf weeds in corn, sorghum, wheat, non-crop and many other crops and uses.

EPA REG. NO.	71368-29		
ACTIVE INGR.	bromoxynil (2 lb/gal): octanoic acid ester (33.4%)		
FORMULATION	liquid		
CHEM. FAMILY	nitrile		
GROUP NO.	6	REI	24 hours
SIGNAL WORD	warning		
RESTRICTED	no		
PACKAGE SIZE	2.5 gal container (2 per case)		

KEY PERFORMANCE BENEFITS

- Controls more than 40 tough broadleaf weeds
- No weed resistance issues
- Compatible with many grass and broadleaf herbicides
- Flexible application options

KEY USES

Alfalfa (seedling), barley, corn, flax, garlic, mint, oat, onion (dry bulb), rye, sorghum (grain and forage), triticale

KEY WEEDS CONTROLLED

Annual sowthistle, buffalobur, field pennycress, groundsel, hemp sesbania, jimsonweed, ladythumb, lambsquarters, London rocket, nightshade, prostrate knotweed, puncturevine, ragweed, Russian thistle, shepherd's-purse, velvetleaf, Venice mallow
(see label for complete list)

Maestro® 4EC

Maestro® 4EC offers growers excellent control of more than 50 broadleaf weeds including cocklebur, common lambsquarters, morningglory and velvetleaf. This fast acting post-emergence herbicide can be used as a stand alone product or in tank-mix combinations.

EPA REG. NO.	71368-78		
ACTIVE INGR.	bromoxynil (4 lb/gal): octanoic acid ester (28%), heptonic acid ester (27%)		
FORMULATION	liquid		
CHEM. FAMILY	nitrile		
GROUP NO.	6	REI	24 hours
SIGNAL WORD	warning		
RESTRICTED	no		
PACKAGE SIZE	2.5 gal container (2 per case)		

KEY PERFORMANCE BENEFITS

- Contains a proprietary mixed-ester formulation of bromoxynil
- Less product to store and handle
- Controls more than 50 tough broadleaf weeds
- Can be applied by ground or aerial application or through sprinkler irrigation equipment
- No re-cropping restrictions
- Compatible with many grass and broadleaf herbicides

KEY USES

Alfalfa (seedling), barley, corn, flax, garlic, mint, oat, onion (dry bulb), rye, sorghum (grain and forage), triticale

KEY WEEDS CONTROLLED

Annual sowthistle, buffalobur, field pennycress, groundsel, hemp sesbania, jimsonweed, ladythumb, lambsquarters, London rocket, nightshade, prostrate knotweed, puncturevine, ragweed, Russian thistle, shepherd's-purse, velvetleaf, Venice mallow, wooly croton
(see label for complete list)

DICAMBA Versatile choice for broadleaf weed control and resistance management

Clash®

Clash® controls difficult ALS- and triazine-resistant annual weeds in addition to a broad spectrum of perennial and biennial weeds. Plus, Clash offers early application and residual control. Its wide application window offers flexibility to deal with unpredictable spring weather.

EPA REG. NO.	228-615		
ACTIVE INGR.	DGA dicamba salt (56.8% / 4 lbs ae/gal)		
FORMULATION	liquid		
CHEM. FAMILY	benzoic acid		
GROUP NO.	4	REI	24 hours
SIGNAL WORD	caution		
RESTRICTED	yes (CA only)		
PACKAGE SIZE	2.5 gal container (2 per case), 265 gal tote, bulk		

KEY PERFORMANCE BENEFITS

- Controls a broad spectrum of annual and perennial broadleaf weeds
- Economical solution for ALS- and triazine-resistant weeds
- Flexible application timing: preplant burndown, pre-emergence, post-emergence
- Offers a wide application window
- Excellent crop safety

KEY USES

Asparagus, barley, corn, cotton, grass grown for seed, hay, oat, proso millet, sorghum, soybeans, sugarcane, triticale, wheat, CRP, fallow croplands, general farmstead (non-cropland), pasture, rangeland

KEY WEEDS CONTROLLED

Many annual, biennial, perennial and woody weeds including ground ivy, kudzu, lambsquarters and thistle
(see label for complete list)



Diablo®

EPA REG. NO.	228-379		
ACTIVE INGR.	DMA dicamba salt (49.41% / 4 lbs ae/gal)		
FORMULATION	liquid		
CHEM. FAMILY	benzoic acid		
GROUP NO.	4	REI	24 hours
SIGNAL WORD	caution		
RESTRICTED	yes (CA only)		
PACKAGE SIZE	2.5 gal container (2 per case), 30 gal drum, 265 gal tote, bulk		

Diablo® is a water-soluble amine formulation of dicamba that offers extensive control of brush, vines and broadleaf weeds. Diablo provides perennial broadleaf weed and brush management in corn, sorghum, small grains, pasture, and other crops.

KEY PERFORMANCE BENEFITS

- Water-soluble amine formulation of dicamba
- Offers extensive control of brush, vines and broadleaf weeds

KEY USES

Asparagus, corn, hay, small grains, sorghum, sugarcane, fallow, general farmstead (non-cropland), pasture, rangeland

KEY WEEDS CONTROLLED

Amaranth, buckwheat, burcucumber, clover (annual), lambsquarters, mayweed, pigweed, slender aster, spurge
(see label for complete list)



EPA REG. NO.	71368-34		
ACTIVE INGR.	DMA dicamba salt (12.4% / 1 lb ae/gal), 2,4-D amine salt (35.7% / 1 lb ae/gal)		
FORMULATION	liquid		
CHEM. FAMILY	benzoic acid, phenoxy-carboxylic acid		
GROUP NO.	4	REI	48 hours
SIGNAL WORD	danger		
RESTRICTED	yes (CA only)		
PACKAGE SIZE	1 gal container (4 per case), 2.5 gal container (2 per case), 30 gal drum, 265 gal tote, bulk		

WeedMaster® delivers consistent weed control in sugarcane, pastures, small grains and fallow. This selective, post-emergence herbicide provides tough, long-lasting control of a broad spectrum of annual, biennial and perennial broadleaf weeds.

KEY PERFORMANCE BENEFITS

- Achieve outstanding control of brush and broadleaf weeds in a concentrated formula
- Controls tough weeds such as horsetail, thistles and blackberry
- Safe for desirable grasses
- Pre-emergence control with residual activity

KEY USES

Grass (hay or silage), sorghum, sugarcane, wheat, CRP, fallow land, general farmstead, pastures, rangeland

KEY WEEDS CONTROLLED

Buckwheat, burdock, buttercup, chickweed, chicory, cocklebur, dandelion, dogfennel, goldenrod, henbit, honeysuckle, kochia, marshelder, morningglory, mustard, pigweed, purslane, ragweed, Russian thistle, shepherd's-purse, smartweed, sneezeweed, velvetleaf, vetch
(see label for complete list)

PHENOXY MCPA Effective control of broadleaf weeds



EPA REG. NO.	229-143-71368		
ACTIVE INGR.	MCPA amine salt (48.58% / 3.7 lbs ae/gal)		
FORMULATION	liquid		
CHEM. FAMILY	phenoxy-carboxylic acid		
GROUP NO.	4	REI	48 hours
SIGNAL WORD	danger		
RESTRICTED	yes (CA only)		
PACKAGE SIZE	2.5 gal container (2 per case), 250 gal tote		

Rhomene® is an extremely versatile MCPA formulation that provides a reduced risk of injury to small grains when compared with other 2,4-D's. Rhomene is effective in moderately hard water and serves as an excellent tank-mix partner to other small grain herbicides.

KEY PERFORMANCE BENEFITS

- Excellent tank-mix partner with other small grain herbicides
- Versatile MCPA, effective in moderately hard water
- Safer on small grains and adjacent sensitive crops than 2,4-D formulations

KEY USES

Barley, oat, peas*, rye, wheat, established grassland and pastures
*Pacific Northwest only

KEY WEEDS CONTROLLED

Beggartick, bindweed, burdock, buttercup, cocklebur, daisy, dandelion, field bindweed, goldenrod, honeysuckle, knotweed, kochia, lambsquarters, mustard, nutgrass, pigweed, plantain, puncturevine, purslane, ragweed, shepherd's-purse, stinging nettle, thistle, vetch, witchweed
(see label for complete list)

PHENOXY ESTER Effective control of broadleaf weeds

Weedone® LV4 Solventless

EPA REG. NO.	71368-14		
ACTIVE INGR.	2,4-D ester (62.6% / 3.8 lbs ae/gal)		
FORMULATION	liquid		
CHEM. FAMILY	phenoxy-carboxylic acid		
GROUP NO.	4	REI	12 hours
SIGNAL WORD	caution		
RESTRICTED	yes (CA only)		
PACKAGE SIZE	2.5 gal container (2 per case), 30 gal drum, 250 gal tote		

Weedone® LV4 Solventless uses high-quality emulsifiers and surfactants to replace the solvent base. This low-odor formulation mixes well with most liquid fertilizers and is an excellent choice for burndown applications. It easily washes from containers and spray equipment.

KEY PERFORMANCE BENEFITS

- Contains no solvents, solvents are replaced with high-quality emulsifiers and surfactants
- Low-odor formulation
- Easily rinses out of containers and spray equipment
- Safer on host crop than conventional 2,4-D herbicides

KEY USES

Barley*, field corn, grain, grasses for seed production, oat*, preplant soybeans, rye*, sorghum, wheat*, fallow land, non-crop areas, pastures and rangelands
*not underseeded with a legume

KEY WEEDS CONTROLLED

Annual yellow sweet clover, bull thistle, coffeeweed, jimsonweed, marshelder, ragweed, velvetleaf
(see label for complete list)

Nufarm

Weedone® LV6 EC

EPA REG. NO.	71368-11		
ACTIVE INGR.	2,4-D ester (87.3% / 5.5 lbs ae/gal)		
FORMULATION	liquid		
CHEM. FAMILY	phenoxycarboxylic acid		
GROUP NO.	4	REI	12 hours
SIGNAL WORD	caution		
RESTRICTED	yes (CA only)		
PACKAGE SIZE	2.5 gal container (2 per case), 30 gal drum, 265 gal tote, bulk		

Nufarm Weedone® LV6 EC features a low-volume formulation that offers easy handling and storage and is ideal for aerial or custom applications. As with Weedone® LV4, it mixes well with liquid fertilizers and can also be mixed with water and oil to control tough perennial broadleaf weeds and brush.

KEY PERFORMANCE BENEFITS

- Low volatile formulation mixes well with liquid fertilizers
- Mixes with water and oil to control tough perennial broadleaf weeds and brush
- Ideal for aerial application utilizing less product
- Highest acid concentration for more efficient shipping and storage

KEY USES

Barley*, corn, grain, grasses for seed production, oat*, preplant soybeans, rye*, sorghum, wheat*, fallow land, non-crop areas, pastures and rangelands
*not underseeded with a legume

KEY WEEDS CONTROLLED

Annual yellow sweet clover, bull thistle, coffeeweed, jimsonweed, marshelder, ragweed, velvetleaf
(see label for complete list)

PHENOXY AMINE Effective control of broadleaf weeds

Orchard Clean®

EPA REG. NO.	71368-1		
ACTIVE INGR.	2,4-D amine (46.8% / 3.8 lbs ae/gal)		
FORMULATION	liquid		
CHEM. FAMILY	phenoxycarboxylic acid		
GROUP NO.	4	REI	48 hours
SIGNAL WORD	danger		
RESTRICTED	no		
PACKAGE SIZE	2.5 gal container (2 per case)		

Orchard Clean® is a low-volatile, premium 2,4-D amine formulation that is sequestered to 1,500-ppm water hardness. This “workhorse” of 2,4-D amines is registered for control of a variety of difficult weeds – including marestail, mustard, and fleabane.

KEY PERFORMANCE BENEFITS

- Readily soluble in water and forms a true solution
- Broad-spectrum broadleaf phenoxy herbicide in a low-volatile formulation
- Specialty label allows for applications in a variety of orchard settings

KEY USES

Apples, grape vineyards*, pears, stone fruit and nut orchards
*only for use in California

KEY WEEDS CONTROLLED

Bull thistle, burdock, carrot, chicory, coffeeweed, dandelion, evening primrose, galinsoga, garlic, healall, jimsonweed, lambsquarters, lettuce, morningglory, mustards, onion, pepperweeds, pigweeds, plantains, prickly lettuce, ragweed, rough fleabane, salsify, sowthistle, vetch
(see label for complete list)

Weedar® 64

EPA REG. NO.	71368-1		
ACTIVE INGR.	2,4-D amine salt (46.8% / 3.8 lbs ae/gal)		
FORMULATION	liquid		
CHEM. FAMILY	phenoxycarboxylic acid		
GROUP NO.	4	REI	48 hours
SIGNAL WORD	danger		
RESTRICTED	yes (CA only)		
PACKAGE SIZE	1 gal container (5 per case), 2.5 gal container (2 per case), 30 gal drum, 265 gal tote, bulk		

Weedar® 64 is a non-volatile, premium DMA-4 formulation that is sequestered to 1,500-ppm water hardness. This “workhorse” of 2,4-D amines is registered for a variety of settings including cereal grains, corn, sorghum, rice, sugarcane, pastures/rangeland, and tree fruit and nut crops.

KEY PERFORMANCE BENEFITS

- Readily soluble in water and forms a true solution
- Broad-spectrum broadleaf phenoxy herbicide in a non-volatile formulation
- Versatile label includes aquatics and irrigation ditches

KEY USES

Barley, corn, oat, preplant soybeans, rice, rye, sorghum, sugarcane, wheat, aquatic, irrigation ditch banks, CRP, fallow land

KEY WEEDS CONTROLLED

Bull thistle, burdock, chicory, healall, jimsonweed, lambsquarters, marshelder, morningglory, plantain, prickly lettuce, ragweed, rough fleabane, sowthistle, vetch, wild carrot, wild lettuce, wild onion
(see label for complete list)

PYRIDINES Effective control of broadleaf weeds

Candor

EPA REG. NO.	228-565		
ACTIVE INGR.	triclopyr ester (16.5% / 1 lb ae/gal), 2,4-D ester (34.4% / 2 lbs ae/gal)		
FORMULATION	liquid		
CHEM. FAMILY	pyridinecarboxylic acid, phenoxycarboxylic acid		
GROUP NO.	4	REI	24 hours
SIGNAL WORD	caution		
RESTRICTED	yes (CA only)		
PACKAGE SIZE	1 gal container (4 per case), 2.5 gal container (2 per case)		

Candor® herbicide is an effective, low-volatile premix that controls most kinds of unwanted trees and brush as well as annual and perennial broadleaf weeds without harming desirable grasses. The post-emergence activity targets woody plants and brush including blackberries and poison ivy.

KEY PERFORMANCE BENEFITS

- Controls more than 100 tough annual and perennial broadleaf weeds and woody plants
- May be combined with liquid nitrogen fertilizer
- No grazing restrictions for most livestock, including cattle, horses, gestating mares, sheep and goats

KEY USES

CRP acres, fencerows, non-irrigation ditch banks, pastures, rangeland, roadsides and other non-crop areas

KEY WEEDS CONTROLLED

Burdock, chickweed (mouse-ear), clover, cocklebur, horseweed (marestail), kochia, kudzu, lambsquarters, lespedeza, mustard, oxalis, plantain, purslane, shepherd's-purse, spurge, vetch, white henbit, yellow rocket
(see label for complete list)



Cleansweep® M

EPA REG. NO.	71368-89
ACTIVE INGR.	MCPA ester (27.3% / 1.67 lbs ae/gal), bromoxynil ester (25.48% / 1.67 lbs ae/gal), fluroxypyr ester (10.08% / 0.67 lb ae/gal)
FORMULATION	emulsifiable concentrate
CHEM. FAMILY	phenoxyacetic acid, nitrile, pyridinecarboxylic acid
GROUP NO.	4 and 6
REI	24 hours
SIGNAL WORD	caution
RESTRICTED	yes (CA only)
PACKAGE SIZE	2.5 gal container (2 per case), 125 gal tote, 265 gal tote

Cleansweep® M takes broadleaf weed control in cereals to new levels. It controls tough weeds like kochia with excellent tank-mix compatibility for fast, easy application. Plus, Cleansweep M gives you outstanding performance and convenience.

KEY PERFORMANCE BENEFITS

- Outstanding broad-spectrum broadleaf weed control
- Excellent compatibility with grass control herbicides
- Excellent crop safety
- Smart choice for weed resistance management with multiple modes of action

KEY USES

Barley, oat, wheat and CRP acres

KEY WEEDS CONTROLLED

Buckwheat, canola, chamomile, chickweed, clover, cocklebur, coffee weed, gromwell, hemp dogbane, henbit, horseweed (marestail), jimsonweed, knawel, knotweed, kochia, lady thumb, lambsquarters, marshelder, pigweed, puncturevine, purslane, shepherd's-purse, sowthistle, thistle, velvetleaf, waterhemp (see label for complete list)

Relegate®

EPA REG. NO.	228-521
ACTIVE INGR.	triclopyr ester (61.6% / 4 lbs ae/gal)
FORMULATION	liquid
CHEM. FAMILY	pyridinecarboxylic acid
GROUP NO.	4
REI	12 hours
SIGNAL WORD	caution
RESTRICTED	no
PACKAGE SIZE	1 gal container (4 per case), 2.5 gal container (2 per case), 30 gal drum, 250 gal tote

Relegate® offers ranchers and producers flexible, long-lasting brush control specifically designed for range and pastures. With outstanding safety to grasses, Relegate offers control of more than 60 woody plant species, plus many tough broadleaf weeds, ultimately leading to healthier pastures.

KEY PERFORMANCE BENEFITS

- Controls more than 60 woody plant species and many broadleaf weeds without harming desirable grasses
- May be applied as a foliar spray or as a basal bark or cut stump treatment to woody plants
- Compatible with many other broadleaf active ingredients
- May be tank-mixed with liquid nitrogen fertilizer and foliar applied

KEY USES

CRP acres, forests, pastures and rangeland

KEY WEEDS CONTROLLED

WOODY PLANTS: Alder, birch, blackberry, boxelder, cherry, dogwood, kudzu, mulberry, persimmon, salt cedar, sumac, trumpet creeper, wax myrtle, willow, winged elm
ANNUAL AND PERENNIAL BROADLEAF WEEDS: Black medic, burdock, chicory, clover, dandelion, ground ivy, lambsquarters, lespedeza, matchweed, mustard, oxalis, plantain, purple loosestrife, ragweed, vetch (see label for complete list)

SULFONYLUREA Designed for vineyards and orchards



EPA REG. NO.	71368-121
ACTIVE INGR.	rimsulfuron (25%)
FORMULATION	water-dispersible granule
CHEM. FAMILY	sulfonylurea
GROUP NO.	2
REI	4 hours
SIGNAL WORD	caution
RESTRICTED	no
PACKAGE SIZE	20 oz bag (12 per case)

Grapple® Herbicide delivers outstanding weed control on many crops, but it's designed with the unique challenges of vineyards and orchards in mind. Knock down existing weeds and keep floors clean with lasting residual. Plus, Grapple is tank mix compatible with many pre-emerge herbicides.

KEY PERFORMANCE BENEFITS

- Outstanding broad-spectrum pre- and post-emergent control of many weeds
- Labeled for use on a wide range of crops, but formulated to deliver excellent results in vineyards and orchards
- Long-lasting residual control

KEY USES

Many crops including; citrus fruit, grapes, stone and pome fruit, tree nuts, field corn, field-grown tomatoes, potatoes, potatoes grown for seed

KEY WEEDS CONTROLLED

Barnyardgrass, bluegrass, chamomile, crabgrass, dandelion, filaree, fleabane, foxtail, groundsel, henbit, horseweed (marestail), kochia, mallow, mustards, pigweeds, puncturevine, purslane, quackgrass, shepherd's-purse, spurge (see label for complete list)

N-PHENYLPHTHALIMIDE The new liquid flumioxazin



EPA REG. NO.	71368-129
ACTIVE INGR.	flumioxazin (41.4% / 4 lbs/gal)
FORMULATION	liquid
CHEM. FAMILY	N-phenylphthalimide
GROUP NO.	14
REI	12 hours
SIGNAL WORD	none
RESTRICTED	no
PACKAGE SIZE	2.5 gal container (2 per case)

Panther® XLR herbicide combines all labeled Panther SC and Tuscany® SC crops into one flexible label. It provides excellent residual control of tough broadleaf weeds while offering flexible rotation options to many crops. Apply in the fall, early preplant, or preplant or pre-emerge for residual control in Roundup Ready® systems.

KEY PERFORMANCE BENEFITS

- Convenient liquid formulation makes mixing and loading faster and easier
- Controls a broad spectrum of annual broadleaf and grass weeds, including most broadleaf weeds resistant to glyphosate
- Offers long-lasting residual control
- Flexible rotation options
- Enhanced speed of control on a broader weed spectrum in labeled burndown programs

KEY USES

Cotton, dry beans, field corn, peanuts, soybeans, sugarcane, sweet potato, fallow land and bare ground in non-crop farm areas

KEY WEEDS CONTROLLED

Carpetweed, chickweed, dandelion, evening primrose, Florida beggarweed, hemp sesbania, henbit, jimsonweed, kochia, lambsquarters, marestail, mustard, nightshade, pigweed, puncturevine, shepherd's-purse, spurred anoda, Venice mallow, waterhemp (see label for complete list)

EPA REG. NO.	92894-2-71368
ACTIVE INGR.	oxyfluorfen (22.3% / 2 lbs/gal)
FORMULATION	liquid
CHEM. FAMILY	diphenyl ethers
GROUP NO.	14
REI	24 hours, 48 hours (onions, garlic, and horseradish)
SIGNAL WORD	warning
RESTRICTED	no
PACKAGE SIZE	2.5 gal (2 per case), 30 gal

- Proven pre- and post-emerge control
- Broad crop label and flexible application timings
- Long-lasting residual activity
- Excellent tankmix partner

Many crops including almond*, apple, cherry, cotton, grape**, citrus, olive, onion, pear, pecan, pistachio*, and walnut*

Burclover, cheeseweed (malva), fiddleneck, groundsel, henbit, knotweed, lambsquarters, miner's lettuce, morningglory *spp.*, mustard, nettle, nightshade, pigweed, purslane, redmaids, sowthistle
(see label for complete list)

**Includes non-dormant application in CA only

GoalTender®

EPA REG. NO.	92894-3-71368
ACTIVE INGR.	oxyfluorfen (41% / 4 lbs/gal)
FORMULATION	liquid
CHEM. FAMILY	diphenyl ethers
GROUP NO.	14
REI	24 hours, 48 hours (onions, garlic, and horseradish)
SIGNAL WORD	caution
RESTRICTED	no
PACKAGE SIZE	1 gal (4 per case)

- Proven pre- and post-emerge control
- Long-lasting residual activity
- Holds well to soil with low volatility
- Low VOC meets California requirements

KEY USES^{1,2}

Many crops including almond, apple, broccoli, cabbage, cauliflower, cherry, cotton, grape, citrus, olive, onion (direct seeded, transplanted, grown for seed), pear, pecan, pistachio, and walnut

Cheeseweed (malva), groundsel, henbit, lambsquarters, mare's tail, morningglory spp., nightshade, pigweed, purslane, ragweed, shepherd's-purse
(see label for complete list)

²Approved for use under 24(c) Special Local Needs (SLN) labels include post-emergence applications in broccoli, cauliflower, cabbage, and dry bulb onion (1-leaf stage), with state-specific registrations.



Non-Selective
Herbicides

CONTROL TROUBLESOME WEEDS Protect your high value Horticultural crops



EPA REG. NO.	71368-112		
ACTIVE INGR.	glufosinate ammonium (24.5% / 2.34 lbs/gal)		
FORMULATION	liquid		
CHEM. FAMILY	phosphinic acid		
GROUP NO.	10	REI	12 hours
SIGNAL WORD	caution		
PACKAGE SIZE	2.5 gal container (2 per case), 265 gal tote, bulk		

Cheetah® utilizes a novel mode of action to better protect your high-value TNVV crops from weed competition including triazine, ALS, and glyphosate resistant weeds. This fast, effective, non-selective herbicide will let you focus more on profitability and less on weeds.

KEY PERFORMANCE BENEFITS

- Fast, effective, non-selective control of tough grass, sedge, and broadleaf weeds
- Best glyphosate alternative, offering broad-spectrum weed control
- Directed sprays provide excellent control and crop safety in orchards and vineyards
- More consistent control than Gramoxone® on glyphosate-resistant weeds with no special handling restrictions
- For extended residual, tank mix with Panther® XLR

KEY USES

Berry crops, citrus, grapes, olives, pome fruit, stone fruit, tree nuts, and potato vine desiccation

KEY WEEDS CONTROLLED

Chickweed, clover, crabgrass, dandelion, fleabane, foxtail, henbit, junglerice, kochia, lambsquarters, mallow, malva, marestail, morningglory, nutsedge, purslane, ragweed, ryegrass, spurge, vetch, woodsorrel (see label for complete list)

Preplant burndown or post-emerge in LibertyLink® or glufosinate tolerant crops

Cheetah® herbicide quickly eliminates the toughest weeds, even those resistant to glyphosate and multiple herbicide classes. When used over the top of LibertyLink® or glufosinate tolerant traits it offers advantages over glyphosate-tolerant systems plus has many similar benefits.

KEY PERFORMANCE BENEFITS

- The only non-selective alternative to glyphosate for over-the-top use
- Allows growers to rotate non-selective herbicides across multiple crops
- Non-selective, post-emergence broadleaf and grass weed control, including weeds resistant to glyphosate and multiple herbicide classes
- Fast control, kills weeds in days, minimizing weed competition for maximum yield
- Compared to competitive HT systems Cheetah offers:
 - Lower volatility & spray cleanout concerns
 - Mitigates significant drift issues, contamination risk or buffer requirements

KEY USES

POST-EMERGE: Canola, corn, cotton, and soybeans designated as LibertyLink® or glufosinate tolerant

BROADCAST BURNDOWN BEFORE PLANTING OR PRIOR TO CROP EMERGENCE: Any conventional or transgenic variety of canola, corn, cotton, soybeans, and sugarbeets

KEY WEEDS CONTROLLED

Controls more than 130 annual, biennial, perennial grass and broadleaf weeds including: giant ragweed, kochia, lambsquarters, marestail (horseweed), morningglory spp., Palmer amaranth, waterhemp (see label for complete list)

MISCELLANEOUS HERBICIDES Outstanding weed control

Nufarm

Diquat SPC 2L

EPA REG. NO.	228-675		
ACTIVE INGR.	diquat dibromide (37.3%)		
FORMULATION	liquid		
CHEM. FAMILY	bipyridilium		
GROUP NO.	22	REI	24 hours
SIGNAL WORD	caution		
RESTRICTED	no		
PACKAGE SIZE	2.5 gal container (2 per case), 250 gal tote, bulk		

Nufarm Diquat SPC 2L herbicide provides desiccation of green plant material on contact, enabling faster, cleaner, more efficient harvest. Diquat SPC 2L may also be applied as a general herbicide or for site preparation in certain areas. It is water soluble, yet rainfast after 30 minutes.

KEY PERFORMANCE BENEFITS

- Foliar-applied and fast-acting
- Water-soluble formulation makes mixing simple
- No specialized equipment required – can be applied using conventional ground or aerial sprayers
- No harmful soil residues – use with an adjuvant

KEY USES

Alfalfa, canola, clover, potatoes, tree, vine, small fruit and vegetable crops (nonbearing) for site preparation and vegetation control

KEY WEEDS CONTROLLED

Any foliage contacted by Diquat SPC 2L herbicide will be killed (see label for complete list)

Credit® 41 Extra

Setting the industry standard, Credit® 41 Extra non-selective herbicide offers powerful weed control in a fully-loaded surfactant formulation. Credit 41 Extra requires no additional surfactant.

EPA REG. NO.	71368-20		
ACTIVE INGR.	glyphosate: isopropylamine salt (41% / 4 lbs ipa/gal / 3 lbs ae/gal)		
FORMULATION	liquid		
CHEM. FAMILY	glycine		
GROUP NO.	9	REI	4 hours
SIGNAL WORD	caution		
RESTRICTED	no		
PACKAGE SIZE	2.5 gal container (2 per case), 30 gal drum, 265 gal tote, bulk		

- KEY PERFORMANCE BENEFITS**
- Superior broad-spectrum control of tough annual and perennial broadleaf weeds and grasses
 - Works fast – brown down of annuals in 2 to 3 days and perennials in 7 to 10 days
 - Fully loaded – requires no additional surfactant
 - Excellent crop safety

- KEY USES**
- Roundup Ready® cropping systems including: corn, cotton, soybeans, and sugarbeets
- Burndown applications in reduced tillage and fallow systems
- Non-crop uses including farm ditches, CRP and dormant rangeland
- KEY WEEDS CONTROLLED**
- Many annual and perennial weeds and woody brush
(see label for complete list)

Credit® Xtreme

Credit® Xtreme gives you the proven performance of Credit in an exclusive formulation with Dual-Salt Technology™. With fast activity and rainfastness, tough weeds are no match for Credit Xtreme. Plus, the unique formulation delivers excellent crop safety to Roundup Ready® crops.

EPA REG. NO.	71368-81		
ACTIVE INGR.	glyphosate: isopropylamine salt (30.94%), potassium salt (22.99%) (4.5 lb ae/gal)		
FORMULATION	liquid		
CHEM. FAMILY	glycine		
GROUP NO.	9	REI	4 hours
SIGNAL WORD	caution		
RESTRICTED	no		
PACKAGE SIZE	2.5 gal container (2 per case), 250 gal tote, bulk		

- KEY PERFORMANCE BENEFITS**
- Contains proprietary Dual-Salt Technology; delivers excellent crop safety
 - Takes on the toughest weeds with quick burndown and complete control
 - Excellent tank-mix compatibility, even in hard water environments
 - Fast translocation activity and rainfastness

- KEY USES**
- Roundup Ready® cropping systems including: corn, cotton, soybeans, and sugarbeets
- Burndown applications in reduced tillage and fallow systems
- Non-crop uses including farm ditches, CRP and dormant rangeland
- KEY WEEDS CONTROLLED**
- Many tough weeds like lambsquarters and velvetleaf
(see label for complete list)

Insecticides



INSECTICIDES Protect valuable crops from devastating insect pests



Abamex® packages the power of abamectin in a low-volatility, water-based formulation. It works quickly to affect pests within hours. And, selective chemistry makes it a useful resistance management rotation partner. Translaminar activity protects the entire leaf, inside and out.

EPA REG. NO.	228-734		
ACTIVE INGR.	abamectin (2.0% / 0.15 lbs/gal)		
FORMULATION	micro emulsion concentrate (MEC)		
CHEM. FAMILY	avermectin		
GROUP NO.	6	REI	12 hours
SIGNAL WORD	caution		
RESTRICTED	yes		
PACKAGE SIZE	1 gal container (4 per case)		

- KEY PERFORMANCE BENEFITS**
- Control mites and leafminers, Colorado potato beetles and other insects
 - Controls potato and citrus psyllids that vector diseases such as HLB (citrus greening) and zebra chip
 - Flexible application timing in an easy-to-use, low-volatility liquid formulation
 - Rainfast within hours of application

- KEY USES**
- Avocados, beans, celeriac (*apium graveollens*), citrus fruit, cotton, cucurbit vegetables, fruiting vegetables, grapes and small fruits, guava, herbs, leafy vegetables, lychee, mint, onion, papaya, pome fruit, stone fruit, strawberries, tree nuts, tuberous and corm vegetables
- KEY PESTS CONTROLLED**
- Broad mite, carmine spider mite, citrus leafminer, citrus thrips, European red mite, leafminers, pear rust mite, thrips, western grapeleaf skeletonizer
(see label for complete list)

Abamex® is an EPA Restricted-Use Pesticide. Always read and follow label directions.



Nufarm

Lambda-Cyhalothrin 1 EC

Control more than 50 of the toughest insects with Nufarm Lambda-Cyhalothrin 1 EC. It is labeled for use on a wide variety of crops, provides excellent residual control and offers the convenience of an easy-mixing formulation.

EPA REG. NO.	228-708		
ACTIVE INGR.	lambda-cyhalothrin (13%)		
FORMULATION	emulsifiable concentrate		
CHEM. FAMILY	pyrethroid		
GROUP NO.	3	REI	24 hours
SIGNAL WORD	warning		
RESTRICTED	yes		
PACKAGE SIZE	1 gal container (4 per case)		

KEY PERFORMANCE BENEFITS

- Controls more than 50 of the toughest insects on a wide variety of crops
- Excellent residual control
- EC formulation ensures easy mixing

KEY USES

Alfalfa, apples, field corn, peanuts, pears, popcorn, rice, seed corn, wild rice

KEY PESTS CONTROLLED

Alfalfa caterpillar, army cutworm, bird cherry, green cloverworm, greenbug, leafhoppers, loopers, sap beetle, webworm
(see label for complete list)

Nufarm Lambda-Cyhalothrin 1 EC is an EPA Restricted-Use Pesticide. Always read and follow label directions.

Nuprid® 2SC

Nuprid® 2SC systemic insecticide provides lasting broad-spectrum control. Labeled for both soil and foliar application on many different crops, it offers outstanding control of aphids, whiteflies, mealybugs, Colorado potato beetles, leafhoppers and many other piercing and sucking pests.

EPA REG. NO.	228-572		
ACTIVE INGR.	imidacloprid (21.4%)		
FORMULATION	liquid		
CHEM. FAMILY	neonicotinoid		
GROUP NO.	4A	REI	12 hours
SIGNAL WORD	caution		
RESTRICTED	no		
PACKAGE SIZE	2.5 gal container (2 per case)		

KEY PERFORMANCE BENEFITS

- Selective control of key piercing and sucking insects
- Expanded label allows for soil and foliar application on multiple crops
- Helps stop transmission of many insect-vectored diseases
- Readily mixes with other tank-mix partners

KEY USES

Citrus, cotton, fruiting vegetables, grapes, leafy green vegetables, legume vegetables, pome fruits, potatoes, soybeans, stone fruits, strawberries, tree, bush and vine crops, tree nuts, tropical fruits

KEY PESTS / DISEASES CONTROLLED

INSECTS: Leafhoppers, leafminers, mealybugs, mole crickets, plant bugs, psyllids, sharpshooters, thrips, whiteflies
DISEASES: Bacterial wilt, pecan scab, potato yellows, tomato mottle virus
(see label for complete list)

Nuprid® 4F MAX

Nuprid® 4F MAX systemic insecticide provides lasting broad-spectrum control. Labeled for both soil and foliar application on many different crops, it offers outstanding control of aphids, whiteflies, mealybugs, Colorado potato beetles, leafhoppers and many other piercing and sucking pests.

EPA REG. NO.	228-528		
ACTIVE INGR.	imidacloprid (40.4%)		
FORMULATION	liquid		
CHEM. FAMILY	neonicotinoid		
GROUP NO.	4A	REI	12 hours
SIGNAL WORD	caution		
RESTRICTED	no		
PACKAGE SIZE	2.5 gal container (2 per case), 265 gal tote		

KEY PERFORMANCE BENEFITS

- Selective control of key piercing and sucking insects
- Expanded label allows for soil and foliar application on multiple crops
- Helps stop transmission of many insect-vectored diseases
- Readily mixes with other tank-mix partners

KEY USES

Berry, bush and vine crops, citrus, cotton, field vegetables, fruit orchards, peanuts, potato seed piece treatment, potatoes, soybeans, tobacco, tree nuts

KEY PESTS / DISEASES CONTROLLED

INSECTS: Aphids, fleahoppers, leafhoppers, leafminers, mealybugs, mole crickets, plant bugs, sawflies, scales, thrips, white grub complex, wireworms
DISEASES: Bacterial wilt, pecan scab, potato yellows, tomato mottle virus
(see label for complete list)

NOTES



FUNGICIDES Control diseases to maximize yield and quality

Phostrol®

Phostrol® is one of the few phosphorous acids labeled as a fungicide. A neutral pH requires no buffering and allows integration with many other fungicides. These traits allow for compatibility in tank mixes, making Phostrol an excellent fit for any disease management program.

EPA REG. NO.	55146-83		
ACTIVE INGR.	mono- and dibasic sodium potassium and ammonium phosphites (53.6%)		
FORMULATION	liquid		
CHEM. FAMILY	phosphite		
GROUP NO.	33	REI	4 hours
SIGNAL WORD	caution		
RESTRICTED	no		
PACKAGE SIZE	2.5 gal container (2 per case), 250 gal tote		

KEY PERFORMANCE BENEFITS

- Provides prevention and control of a broad spectrum of diseases
- Clear, virtually odorless formulation
- No buffer necessary

KEY USES

Asparagus, avocado, blueberries, citrus, cranberries, cucurbit crops, grapes, hops, leafy vegetables, nut crops, onions, potatoes, tomatoes

KEY DISEASES CONTROLLED

FOLIAR APPLICATION: Late blight, pink rot, Pythium leak

POST-HARVEST: Late blight, pink rot, silver scurf
(see label for complete list)

Nufarm

T-Methyl 4.5 F

Thiophanate-methyl, the active ingredient in Nufarm T-Methyl 4.5 F fungicide, effectively protects a broad spectrum of crops against a wide range of diseases including powdery mildew, rusts, brown spot, brown rot, Fusarium and Rhizoctonia root rot with effective, systemic disease control.

EPA REG. NO.	228-652		
ACTIVE INGR.	thiophanate-methyl (46.2%)		
FORMULATION	liquid		
CHEM. FAMILY	thiophanates		
GROUP NO.	1	REI	12 hours
SIGNAL WORD	caution		
RESTRICTED	no		
PACKAGE SIZE	2.5 gal container (2 per case), 250 gal tote		

KEY PERFORMANCE BENEFITS

- Offers thorough protection against a broad spectrum of diseases across dozens of crops
- Excellent tank-mix option
- Works systemically to protect new growth

KEY USES

Almonds, apples, beans, cherries, cucurbits, grapes, peaches, peanuts, pecans, pistachios, potatoes, soybeans, strawberries

KEY DISEASES CONTROLLED

Black pox, black rot, blossom blight, brooks fruit spot, brown rot, flyspeck, leaf spot, limb rot, powdery mildew, rust, scab, sooty blotch, web blotch
(see label for complete list)

Ultra Flourish® XHL

Ultra Flourish® XHL brings the power of mefenoxam in a higher-load formulation and provides protection across many crops against harmful soil-borne diseases caused by *Pythium* and *Phytophthora* species. Its systemic mode of action prevents spore production, inhibits mycelial growth of fungus and improves crop health and vigor.

EPA REG. NO.	55146-166		
ACTIVE INGR.	mefenoxam (45.3%)		
FORMULATION	emulsifiable concentrate		
CHEM. FAMILY	phenylamide		
GROUP NO.	4		
REI	48 hours for soil directed or foliar applications		
SIGNAL WORD	caution		
RESTRICTED	no		
PACKAGE SIZE	1 gal (4 per case), 265 gal tote		

KEY PERFORMANCE BENEFITS

- 2X the strength as original Ultra Flourish for ease of application
- Highly active fungicide formulation
- Can be applied in combination with liquid fertilizers or impregnated into dry fertilizers
- Excellent crop safety
- Provides efficient control of foliar and soil diseases in a wide variety of crops

KEY USES

Almond, asparagus, carrot, citrus, cotton, leafy vegetables, peppers, strawberries, tomatoes, walnut

KEY DISEASES CONTROLLED

Brown rot, citrus foot rot, crown rot, damping-off, gummosis, phytophthora root rot, root rot
(see label for complete list)



Champ® Dry Prill

Champ® Dry Prill is the only dry prill copper available for no-dust mixing and handling.

EPA REG. NO.	55146-57		
ACTIVE INGR.	copper hydroxide (57.6% / 37.5% metallic copper equiv.)		
FORMULATION	dry prill		
CHEM. FAMILY	inorganic		
GROUP NO.	M1	REI	48 hours
SIGNAL WORD	warning		
RESTRICTED	no		
PACKAGE SIZE	20 lb bag		

KEY PERFORMANCE BENEFITS

- Only dry prill copper product on the market
- Made using a unique polymer process that results in a virtually dust-free formula
- Mixes fast and easily
- Excellent control of key diseases

KEY USES

Citrus crops, field crops, small fruits, tree crops, vegetables and vines

KEY DISEASES CONTROLLED

Bacterial diseases, black spot, leaf spots, powdery mildew
(see label for complete list)

Champ® Formula 2 Flowable

Champ® Formula 2 Flowable is an advanced copper formulation that delivers excellent disease control. Developed with a small particle size, Champ stays in suspension longer, mixes easier in water and covers plants better to deliver superior protection.

EPA REG. NO.	55146-64		
ACTIVE INGR.	copper hydroxide (37.5%)		
FORMULATION	flowable		
CHEM. FAMILY	inorganic		
GROUP NO.	M1	REI	48 hours
SIGNAL WORD	warning		
RESTRICTED	no		
PACKAGE SIZE	2.5 gal container (2 per case), 165 gal tote		

KEY PERFORMANCE BENEFITS

- Excellent control of key diseases
- Consistently ideal crystal size combined with state-of-the-art surfactants
- Long shelf life
- Pours and mixes easily – even after extended storage

KEY USES

Berries, field crops, tree crops, tropical crops, vegetable crops, vines and hops

KEY DISEASES CONTROLLED

Bacterial canker, blights, leaf spot, yellow rust
(see label for complete list)

Champ^{ION++}

Champ^{ION++}® has the smallest, most consistent copper ions (particles) of any WG copper formulation. The result: better coverage and better disease control. And, Champ^{ION++} delivers all that with less environmental load than high dose copper products.

EPA REG. NO.	55146-115		
ACTIVE INGR.	copper hydroxide (46.1% / 30% metallic copper equivalent)		
FORMULATION	water-dispersible granule		
CHEM. FAMILY	inorganic		
GROUP NO.	M1	REI	48 hours (24 for greenhouse)
SIGNAL WORD	caution		
RESTRICTED	no		
PACKAGE SIZE	10 lb bag (4 per case), 30 lb bag		



KEY PERFORMANCE BENEFITS

- Small particle size results in excellent coverage and disease protection
- Stable WG formula pours easily and disperses quickly
- High density copper product means lower use rates and smaller pack sizes
- Controls plant pathogenetic fungi and bacteria (non-public health bacteria)
- Certified for use in organic crop production

KEY USES

Alfalfa, almonds, apples, apricots, avocado, barley, beans, berries, carrots, celery, cherries, citrus, cucurbits, eggplant, filberts, garlic, grapes, hops, leek, macadamia, oats, onions, peaches, pears, peas, pecans, peppers, pistachio, plums, potatoes, prunes, spinach, strawberries, tomatoes, walnuts, wheat

KEY DISEASES CONTROLLED

Various blights, mildews, leaf spots and other pathogens
(see label for complete list)

Champ® WG

Champ® WG is an effective copper hydroxide formulation that is easy and efficient to use. As a water dispersible granule, it provides surface area coverage and fungicidal protection. Plus, Champ WG won't clog equipment and allows more acres to be covered per day.

EPA REG. NO.	55146-1		
ACTIVE INGR.	copper hydroxide 77% (50% metallic copper equivalent)		
FORMULATION	water-dispersible granule		
CHEM. FAMILY	inorganic		
GROUP NO.	M1	REI	48 hours
SIGNAL WORD	danger		
RESTRICTED	no		
PACKAGE SIZE	20 lb bag		



KEY PERFORMANCE BENEFITS

- Actively controls several disease causing fungi
- Multi-site mode of action
- Liquid formulation that offers superior coverage and control
- Excellent rainfastness
- Resistance management for strobilurins and sterol-inhibitors

KEY USES

Berries, field crops (alfalfa, barley, oat, peanut, sugarbeet, wheat), tree crops (almond, apple, apricot, avocado, cherry, citrus, filbert, kiwifruit, nectarine, peach, pear, pecan, plum, prune, walnut), vegetable (bean dry/green, carrot, celery, cucurbits, garlic, leek, onion, pea, pepper, potato, tomato) and hops

KEY DISEASES CONTROLLED

Various blights, mildews, leaf spots and other pathogens
(see label for complete list)

Agri-Mycin® 50

Agri-Mycin® 50 protects apples, pears, tomatoes and other crops against bacterial diseases such as fire blight.

EPA REG. NO.	55146-98		
ACTIVE INGR.	streptomycin sulfate (65.8% / equivalent to 50% streptomycin)		
FORMULATION	wettable powder		
CHEM. FAMILY	glucopyranosyl		
GROUP NO.	25	REI	12 hours
SIGNAL WORD	caution		
RESTRICTED	no		
PACKAGE SIZE	3 lb bag (6 per case)		

- KEY PERFORMANCE BENEFITS**
- Protectant bactericide
 - Provides 3 to 4 days of dependable protection
 - Easy on plants and animals
 - Compatible with most pesticides

- KEY USES**
Apples, celery, pears, pepper, potato, tobacco, tomato
- KEY DISEASES CONTROLLED**
Bacterial blight, bacterial spot, fire blight, soft rot blackleg, wildfire blue mold (see label for complete list)



Mycoshield® controls fire blight in apples and pears and bacterial spot in nectarines and peaches. Mycoshield can be used in combination or rotation with Agri-Mycin® and other bactericides, and is compatible with most pesticides commonly used in an orchard.

EPA REG. NO.	55146-97		
ACTIVE INGR.	calcium oxytetracycline (17.7% / equivalent to 17% oxytetracycline)		
FORMULATION	wetttable powder		
CHEM. FAMILY	tetracycline antibiotic		
GROUP NO.	41	REI	12 hours
SIGNAL WORD	warning		
RESTRICTED	no		
PACKAGE SIZE	2 lb bag (10 per case)		

- KEY PERFORMANCE BENEFITS**
- Suppresses fire blight in apples and pears and bacterial spot in peaches and nectarines
 - Essential part of resistance management programs
 - Gentle protectant bactericide – does not alter appearance or growth of fruit
 - Compatible with most commonly used pesticides
 - Long-lasting preventive control

- KEY USES**
Apples, nectarines, peaches, pears
- KEY DISEASES CONTROLLED**
Bacterial spot, fire blight (see label for complete list)

Plant Growth Regulators



COTTON PLANT GROWTH REGULATORS Manage vegetative growth for maximum yield

Mepex®

Mepex® is a foliar-applied plant growth regulator that allows growers to manage cotton plants for short-season production. Mepex reduces plant height, offers better boll retention and helps improve defoliation – leading to reduced risk of yield and quality loss due to prolonged harvest.

EPA REG. NO.	228-608
ACTIVE INGR.	mepiquat chloride (4.2% / 0.35 lb/gal)
FORMULATION	liquid
CHEM. FAMILY	quaternary ammonium salt
REI	12 hours
SIGNAL WORD	caution
RESTRICTED	no
PACKAGE SIZE	2.5 gal container (2 per case), 265 gal tote

- KEY PERFORMANCE BENEFITS**
- Reduces excessive vegetative growth
 - Optimizes boll development for higher yields
 - Suitable for early-season applications
 - Can reduce risk of yield and quality loss due to delayed or prolonged harvest
 - Helps improve defoliation and reduce trash

- KEY USES**
Cotton
(see label for complete list)

CottonQuik®

EPA REG. NO.	228-607
ACTIVE INGR.	ethephon (18.3%), urea sulfate (58.6%)
FORMULATION	liquid
CHEM. FAMILY	phosphonic acid, monocarbamide dihydrogen sulfate
REI	48 hours, 72 hours (if average rainfall is less than 25" per year)
SIGNAL WORD	danger
RESTRICTED	no
PACKAGE SIZE	2.5 gal container (2 per case), 250 gal tote

CottonQuik® harvest aid accelerates the opening of mature unopened cotton bolls over a wide range of temperatures, minimizing regrowth for a clean harvest. CottonQuik allows you to use a reduced rate of defoliant while improving consistency and speeding leaf drop.

KEY PERFORMANCE BENEFITS

- Superior boll opening that begins 3 to 5 days sooner than other products
- Delivers consistent results, even in cool weather, to help keep harvest on schedule
- Can help minimize regrowth
- Enhances defoliant activity to improve consistency and hasten leaf drop

KEY USES

Cotton
(see label for complete list)

CutOut®

EPA REG. NO.	228-678
ACTIVE INGR.	diuron (6%), thidiazuron (12%)
FORMULATION	suspension concentrate
CHEM. FAMILY	urea
REI	12 hours
SIGNAL WORD	caution
RESTRICTED	yes (CA only)
PACKAGE SIZE	2.5 gal container (2 per case)

CutOut® promises fast defoliation even when cold fronts are in the forecast. CutOut removes mature leaves and new growth to reduce trash and preserve lint quality. Plus, it can be tank-mixed with other harvest aids to improve performance for a faster finish.

KEY PERFORMANCE BENEFITS

- Offers consistent, clean defoliation
- Defoliates with less desiccation
- Helps preserve lint quality by removing mature leaves and suppressing new growth
- Performs even in tough weather conditions
- Excellent tank-mix partner with Super Boll® or any other boll-opening products

KEY USES

Cotton
(see label for complete list)

FreeFall® SC

EPA REG. NO.	228-653
ACTIVE INGR.	thidiazuron (41.4%)
FORMULATION	suspension concentrate
CHEM. FAMILY	urea
REI	12 hours
SIGNAL WORD	caution
RESTRICTED	no
PACKAGE SIZE	1 gal container (4 per case)

FreeFall® SC cotton defoliant removes juvenile growth while controlling re-growth, allowing for a no-stick, no-hassle harvest at optimum crop maturity. Thidiazuron, the active ingredient in FreeFall SC, is recognized as the long-time standard in effective defoliation.

KEY PERFORMANCE BENEFITS

- Offers excellent defoliation for less trash in cotton
- Provides excellent re-growth control and removes juvenile growth
- Enables harvest at maximum maturity
- Single active ingredient allows you to customize your defoliation program

KEY USES

Cotton
(see label for complete list)

Super Boll®

EPA REG. NO.	228-659
ACTIVE INGR.	ethephon (55.4%)
FORMULATION	liquid
CHEM. FAMILY	phosphonic acid
REI	48 hours, 72 hours (if average rainfall is less than 25" per year)
SIGNAL WORD	danger
RESTRICTED	no
PACKAGE SIZE	2.5 gal container (2 per case), 30 gal drum, 250 gal tote

Super Boll® plant regulator hastens the opening of mature cotton bolls, enabling growers to harvest earlier and increase recoverable yield.

KEY PERFORMANCE BENEFITS

- Promotes the opening of mature cotton bolls
- Enables growers to harvest earlier and increase recoverable yield

KEY USES

Cotton, tobacco
(see label for complete list)



Terminate® Cotton Harvest Aid increases the natural ethylene synthesis process to quickly and effectively promote leaf drop and open cotton bolls. As a single application premix, crops may be harvested up to 5 days faster – reducing risk from damaging weather.

EPA REG. NO.	228-727
ACTIVE INGR.	ethephon (51.8%), cycilanilide (3.2%)
FORMULATION	liquid
CHEM. FAMILY	phosphonic acid, malonanilate
REI	48 hours, 72 hours (if average rainfall is less than 25" per year)
SIGNAL WORD	danger
RESTRICTED	no
PACKAGE SIZE	2.5 gal container (2 per case)

- KEY PERFORMANCE BENEFITS**
- Premix formula promotes both leaf drop and boll opening naturally
 - Quick results allow harvest up to 5 days sooner
 - Clean crops and preserved lint quality maximize profits
 - Tank mix compatible with other plant growth regulators to meet the demands of challenging weather conditions

KEY USES
Cotton (defoliant and boll opener)
(see label for complete list)

PLANT GROWTH REGULATORS Improve yield and crop quality



RiteWay®, a 6-BA plant growth regulator for apples and pears that increases size and thins fruit. Increases yield and reduces alternate bearing in pistachios.

EPA REG. NO.	71368-60
ACTIVE INGR.	6-benzyladenine (1.9%)
FORMULATION	liquid
CHEM. FAMILY	purine
REI	12 hours
SIGNAL WORD	caution
RESTRICTED	no
PACKAGE SIZE	1 gal container (4 per case)

- KEY PERFORMANCE BENEFITS**
- Increases size and thins fruit
 - Increases yield
 - Reduces alternate bearing in pistachios

KEY USES
Apples, pears, pistachios
(see label for complete list)



Verve® Plant Growth Regulator is an ethephon formula that offers a wide range of uses on tobacco, fruit crops, fruiting vegetables, and wheat/barley to improve quality, yield and harvestability.

EPA REG. NO.	228-660
ACTIVE INGR.	ethephon (21.7%)
FORMULATION	liquid
CHEM. FAMILY	phosphonic acid
REI	48 hours, 72 hours (if average rainfall is less than 25" per year)
SIGNAL WORD	danger
RESTRICTED	no
PACKAGE SIZE	2.5 gal container (2 per case)

- KEY PERFORMANCE BENEFITS**
- Prevents formation of undesirable fruit
 - Promotes earlier maturation and coloring of leaves

KEY USES
Apples, blackberries, blueberries, cantaloupe, cucumber, cherries, grapes, peppers, pumpkin and squash, tobacco, tomatoes, walnuts
(see label for complete list)

NOTES



[nufarm.com/uscrop](https://www.nufarm.com/uscrop)

Abamex® and Nufarm Lambda-Cyhalothrin 1 EC Insecticide are EPA Restricted-Use Pesticides. Always read and follow label directions.

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