Evolving Ag

Vineyard
Product Guide






As a leader in specialty crop protection we balance innovation and efficiency to bring you a focused product portfolio that save time and delivers results.

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Goal® 2XL

Goal® 2XL delivers "extra long" control of many broadleaf and grassy weeds, including malva species. It works on contact and forms a lasting soil barrier to block emerging weeds for extended post- and pre-emerge control.

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 hrs PHI 14 days
SIGNAL WORD	warning
PACKAGE SIZE	2.5 gal (2 per case), 30 gal

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

KEY WEEDS CONTROLLED
Burclover, cheeseweed (malva), fiddleneck, groundsel, henbit, knotweed, lambsquarters, minerslettuce, *morningglory spp.*, mustard, nettle, nightshade, pigweed, purslane, redmaids, sowthistle
(see label for complete list)

GoalTender®

GoalTender® is a water-based formulation that holds well to soil and performs at lower rates with less environmental load. It delivers broadleaf weed burndown and lasting pre- emerge activity on broadleaves and grasses, making it ideal for residual herbicide programs.

EPA REG. NO.	92894-3-71368
ACTIVE INGR.	oxyfluorfen (41% / 4 lbs/gal)
FORMULATION	liquid
CHEM. FAMILY	diphenyl ethers
GROUP NO.	14 REI 24 hrs PHI 14 days
SIGNAL WORD	caution
PACKAGE SIZE	1 gal (4 per case)

KEY PERFORMANCE BENEFITS
- Proven pre- and post-emerge control
- Long-lasting residual activity
- Holds well to soil with low volatility
- Low VOC meets California requirements
- Water-based formulation for greater crop safety and application flexibility

KEY WEEDS CONTROLLED
Burclover, cheeseweed (malva), fiddleneck, groundsel, henbit, knotweed, lambsquarters, minerslettuce, *morningglory spp.*, mustard, nettle, nightshade, pigweed, purslane, redmaids, sowthistle
(see label for complete list)

Grapple®

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.

EPA REG. NO.	71368-121
ACTIVE INGR.	rimsulfuron (25%)
FORMULATION	water-dispersible granule
CHEM. FAMILY	sulfonylurea
GROUP NO.	2 REI 4 hrs PHI 14 days
SIGNAL WORD	caution
PACKAGE SIZE	20 oz bag (12 per case)

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 WEEDS CONTROLLED
Barley, barnyardgrass, bluegrass, chamomile, chickweed, cocklebur, crabgrass, dandelion, filaree, fleabane, foxtail, groundsel, henbit, johnsongrass, kochia, lambsquarters, marestail (horseweed), mustard, nightshade, oats, nutsedge, pigweed, puncturevine, purslane, quackgrass, ragweed, shepherd's-purse, smartweed, spurge, thistle, velvetleaf
(see label for complete list)

Orchard Clean®

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.

EPA REG. NO.	71368-1
ACTIVE INGR.	2,4-D amine (46.8% / 3.8 lbs ae/gal)
FORMULATION	liquid
CHEM. FAMILY	phenoxy-carboxylic acid
GROUP NO.	4 REI 48 hrs PHI 100 days
SIGNAL WORD	danger
PACKAGE SIZE	2.5 gal container (2 per case)

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 WEEDS CONTROLLED
For control of tough-to-control broadleaf weeds such as field bindweed, Canada thistle, fleabane, lambsquarters, morningglory, ragweed
(see label for complete list)

Precaution: Grapes are extremely sensitive to 2,4-D. Use a direct application so no 2,4-D contacts grape leaves and young shoots or stems.

Panther® XLR

Panther® XLR herbicide combines all labeled Panther SC and Tuscany® SC crops into one flexible label, bringing trusted performance to orchards, vineyards and other specialty crops. Pre-emergence control of more than 60 tough weeds with long-lasting residual. Its proven crop safety profile offers low leaching and volatilization potential.

EPA REG. NO.	71368-129
ACTIVE INGR.	flumioxazin (41.4% / 4 lbs/gal)
FORMULATION	liquid
CHEM. FAMILY	N-phenylphthalimide
GROUP NO.	14 REI 12 hrs PHI 60 days
SIGNAL WORD	none
PACKAGE SIZE	2.5 gal container (2 per case)

KEY PERFORMANCE BENEFITS
- Controls a broad spectrum of annual broadleaf and grass weeds, including most broadleaf weeds resistant to glyphosate
- Convenient liquid formulation makes mixing and loading faster and easier
- Offers long-lasting residual control to keep fields clean

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

NON-SELECTIVE HERBICIDES

Cheetah®

Cheetah® utilizes a novel mode of action to better protect your vineyards 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.

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 hrs **PHI** 14 days
SIGNAL WORD	caution
PACKAGE SIZE	2.5 gal container (2 per case), 265 gal tote, bulk

KEY PERFORMANCE BENEFITS
- Best glyphosate alternative, offering broad-spectrum weed control
- Directed sprays provide excellent control and crop safety in vineyards
- Excellent tank-mix partner with Panther XLR for extended residual control

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)

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 hrs **PHI** 14 days
SIGNAL WORD	caution
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

KEY WEEDS CONTROLLED
Wide range of annual and perennial grass and broadleaf weeds.
(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.

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 hrs **PHI** 14 days
SIGNAL WORD	caution
PACKAGE SIZE	2.5 gal container (2 per case), 250 gal tote, bulk

KEY PERFORMANCE BENEFITS
- Contains proprietary Dual-Salt Technology™
- Takes on the toughest weeds with quick burndown and complete control
- Excellent tank-mix compatibility, even in hard water environments

KEY WEEDS CONTROLLED
Broadleaf weeds including common mallow and certain grass weeds such as barnyardgrass
(see label for complete list)

INSECTICIDES

Abamex®

Abamex® packages the power of abamectin in a low-volatility, water-based formulation. It affects pests within hours and translaminar activity protects the entire leaf, inside and out. With selective chemistry, Abamex is a useful resistance management rotation partner.

EPA REG. NO.	228-734
ACTIVE INGR.	abamectin (2.0% / 0.15 lbs/gal)
FORMULATION	microemulsion
CHEM. FAMILY	avermectin
GROUP NO.	6 **REI** 12 hrs **PHI** 28 days
SIGNAL WORD	caution
PACKAGE SIZE	1 gal container (4 per case)

REI exception: For grape girdling cane turning, and tying DO NOT enter into treated areas during the restricted-entry interval of 4 days.

KEY PERFORMANCE BENEFITS
- Control mites, leafhoppers and other insects
- Flexible application timing in an easy-to-use, low-volatility liquid formula
- Rainfast within hours of application

KEY PESTS CONTROLLED
Pacific spider mites, two-spotted spider mites, variegated leafhoppers*, Western grapeleaf skeletonizers, Western grape leafhoppers*, Willamette spider mites
(see label for complete list)
*suppression

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

Nuprid® 4F MAX

Nuprid® 4F MAX systemic insecticide provides lasting broad-spectrum control. Labeled for both soil and foliar application, it offers outstanding control of damaging insect pests.

EPA REG. NO.	228-528
ACTIVE INGR.	imidacloprid (40.4%)
FORMULATION	liquid
CHEM. FAMILY	neonicotinoid
GROUP NO.	4A **REI** 12 hrs **PHI** 30 days
SIGNAL WORD	caution
PACKAGE SIZE	2.5 gal container (2 per case), 265 gal tote

REI exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

KEY PERFORMANCE BENEFITS
- Selective control of key piercing and sucking insects
- Helps stop transmission of many insect-vectored diseases
- Readily mixes with other tank-mix partners

KEY PESTS CONTROLLED
Leafhoppers / sharpshooters, mealybugs, Western grapeleaf skeletonizers
(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% / 4.5 lbs/gal)
FORMULATION	flowable
CHEM. FAMILY	inorganic
GROUP NO.	M1 **REI** 48 hrs **PHI** N/A
SIGNAL WORD	warning
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 DISEASES CONTROLLED
Black rot, downy mildew, Phomopsis, powdery mildew
(see label for complete list)

ChampION++®

ChampION++® has the smallest, most consistent copper ions (particles) of any WG copper formulation. The result: better coverage and better disease control. And, ChampION++ 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 hrs **PHI** N/A
SIGNAL WORD	caution
PACKAGE SIZE	10 lb bag (4 per case), 30 lb bag

OMRI LISTED

KEY PERFORMANCE BENEFITS
- 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)
- OMRI Listed® for use in organic crop production

KEY DISEASES CONTROLLED
Black rot, downy mildew, Phomopsis, powdery mildew
(see label for complete list)

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. Its tank mix compatibility makes 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 hrs **PHI** N/A
SIGNAL WORD	caution
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 DISEASES CONTROLLED
Downy mildew
(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% / 4 lbs/gal)
FORMULATION	emulsifiable concentrate
CHEM. FAMILY	phenylamide
GROUP NO.	4 **REI** 48 hrs* **PHI** 60 days
SIGNAL WORD	caution
PACKAGE SIZE	1 gal container (4 per case), 265 gal tote

*soil directed or foliar applications

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 saturated into dry fertilizers
- Excellent crop safety
- Provides efficient control of foliar and soil diseases in a wide variety of crops

KEY DISEASES CONTROLLED
Crown rot, root rot
(see label for complete list)

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