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WILBUR-ELLIS CALIFORNIA VITICULTURE

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Product Name	N	Р	к	Са	Mg	s		Cu	Fe	Mn			Salt- Out	Density #/Gal	Comments	Preferred Application Method	рH	Physical State	Organic
BenVireo®				Gu			P	cu	10			-11	out	<i>"'</i> Gui	comments	Method	PII	State	orgunic
BenVireo Botanic® 8-0-0	8												<40° F	10.22	Liquid Amino Acid Nitrogen	Foliar	6.9	Liquid	Yes
BenVireo Botanic Dry 16-0-0	16												N/A	N/A	Soluble Amino Acid Nitrogen	Foliar, Irrigate, Soil	N/A	Dry	Yes
BenVireo Calcium				4									<40° F	9.32	4% Ca with Amino Acids	Foliar	2.5	Liquid	Yes
BenVireo FoliSentials®	3		3										<40° F	10.1	Molasses, Beet Extract, Soy Protein	Foliar	6.91	Liquid	Yes
BenVireo Iron						2.3			4				<40° F	9.84	4% Fe with Amino Acids	Foliar	3.5	Liquid	Yes
BenVireo Magnesium					2	2.6							<40° F	9.41	2% Mg with Amino Acids	Foliar	3.6	Liquid	Yes
BenVireo Manganese						2.4				4			<40° F	9.57	4% Mn with Amino Acids	Foliar	2.8	Liquid	Yes
BenVireo Multus®					0.5	2.1				1		1	<40° F	9.40	Multiple Elements With Amino Acids	Foliar	2.9	Liquid	Yes
BenVireo Stimtide®	5												N/A	10.1	Bio-Stimulant	Foliar	N/A	Liquid	Yes
BenVireo Zinc						2						4	<40° F	9.45	4% Zn with Amino Acids	Foliar	3.6	Liquid	Yes
FOLI-GRO®																			
FOLI-GRO ACTION®	2	17	17						0.1	0.08	0.0005	0.15	<32° F	11.63	2-17-17 plus VERSATILE® VERDE (100% Orthophosphate)	Foliar, Irrigate, Soil	6.7	Liquid	No
FOLI-GRO BORON 10%							10						<32° F	11.06	Polyamine Boric Acid	Foliar, Soil	9	Liquid	No
FOLI-GRO CALCIUM 6%	5	0	0	6									<32° F	10.26	Calcium Nitrate	Foliar	2.5	Liquid	No
FOLI-GRO CA-ZN	5	0	0	5								2.5	<32° F	10.6	Calcium and Zinc Nitrate	Foliar	2.5	Liquid	No
FOLI-GRO HUMI-K®			26										<32° F	11.7	Pot Carb with 1.5% Humic Acid	Foliar, Irrigate, Soil	10.5	Liquid	No
FOLI-GRO IRON 5%						2			5				<32° F	9.7	Complexed Iron Sulfate	Foliar	2.3	Liquid	No
FOLI-GRO KAP®	3		20										<32°F	10.5	NDemand, potassium acetate and sea kelp (ascophyllum nodosum)	Foliar	8.25	Liquid	No
FOLI-GRO KILO®			24										<20°F	10.65	Potassium Acetate	Foliar, Soil	9.5	Liquid	No
FOLI-GRO MAGNESIUM 4%					4	5							<32° F	10.07	Epsom Salt with 0.4% Humic Acid	Foliar	8.2	Liquid	No
FOLI-GRO MANGANESE 5%						2				5			<32° F	9.84	Complexed with Lignosulfonate	Foliar	4	Liquid	No
FOLI-GRO MOLY-B- MAG	5				2.5	3.3	2.5				0.5		<32° F	10.17	Complexed Micronutrients	Foliar, Soil	4.2	Liquid	No
FOLI-GRO POLISH	5				5							2.50	<32° F	10.5	10% Zinc Citrate Complex	Foliar	2.8	Liquid	No
FOLI-GRO WESTERN MIX						4			2	2		4	<32° F	10.9	Complexed with Lignosulfonate	Foliar	4.5	Liquid	No
FOLI-GRO ZINC 7%						3						7	<32° F	10.3	Complexed with Lignosulfonate	Foliar	4	Liquid	Yes
FOLI-GRO ZBM 6-0-0	6						1.5				1.5	7	<32° F	11.2	Loaded micronutrient folar with zinc, molybdenum and boron.	Foliar	8.75	Liquid	No
MAX SET®*																			
MAX SET 31*		31	28										<20° F	12.8	36% Phosphorous Acid Equivalent	Foliar	6.8	Liquid	No
MAX SET 85 PLUS*	3	44	33										N/A	N/A	29% Phosphorous Acid Equivalent	Foliar	4.5	Dry	No

*OR and WA do not recognize Phophorous acid as a nutrient.

BRANDED NUTRITIONALS

Product Name	N	Р	K	Ca	Mg	S	В	Cu	Fe	Mn	Мо	Zn	Salt- Out	Density #/Gal	Comments	Preferred Application Method	рН	Physical State	Organic
MORA-LEAF	R																		
MORA-LEAF HI-K	9	15	30			4	0.02	0.05	0.1	0.05	0.0005	0.05	N/A	N/A	100% Orthophosphate	Foliar	Acid	Dry	No
MORA-LEAF HI-P	10	45	10			4	0.02	0.05	0.1	0.05	0.0005	0.05	N/A	N/A	100% Orthophosphate	Foliar	Acid	Dry	No
MORA-LEAF MAX	12	26	26				0.02	0.05	0.1	0.05	0.0005	0.05	N/A	N/A	100% Orthophosphate	Foliar	Acid	Dry	No
MORA-LEAF P&K®		50	33										N/A	N/A	100% Orthophosphate	Foliar	Acid	Dry	No
MORA-LEAF PLUS	20	20	20				0.02	0.05	0.1	0.05	0.0005	0.05	N/A	N/A	100% Orthophosphate	Foliar	Acid	Dry	No
NDEMAND ®																			
NDemand 30L	30												<32° F	10.5	60% Polymer Nitrogen	Foliar	9.8	Liquid	No
NDemand KILO [®]	11		16										<32°F	10.7	18% Polymer Nitrogen with Potassium Acetate	Foliar	9	Liquid	No
NDemand ENTOURAGE [®] K	11		16				0.25						<32° F	11.1	30% Polymer Nitrogen with Potassium Carbonate	Foliar	12	Liquid	No
NUTRALIS™																			
NUTRALIS CALCIUM				6									N/A	9.6	Soluble easy for plants to absorb	Foliar	4.5-5.0	Liquid	No
NUTRALIS MAGNESIUM					5								N/A	9.4	Magnesium Acetate easy for plants to absorb	Foliar	5-5.5	Liquid	No
NUTRIO®																			
NUTRIO BIOSOAK®			1										<32° F	8.5	Three-way product containing plant growth promoting rhizobacteria, PURIC and a soil surfactant	Irrigate	7.5	Liquid	No
NUTRIO UNLOCK®													<32° F	8.37	Plant growth promoting rhizobacteria	Irrigate, Soil	5.5	Liquid	Yes
PURIC®																			
PURIC			2										<32° F	8.9	12% Humic Acid - OMRI and CDFA certified organic	Foliar, Irrigate, Soil	11.8	Liquid	Yes
PURIC SALUTE®													<32° F	9.5	Calcium and Acid Compatible Humic Acid with 8% Humic Acid	Foliar, Irrigate, Soil	4.9	Liquid	No
PURIC WSG			10										<32° F	N/A	58% extracted humic acid granule with 100% solubility for immediate soil activity	Foliar, Irrigate, Soil	N/A	Dry	Yes
TILL-IT®																			
TILL-IT 707	7		7										>32	10.06	Contains 2.5% Humic Acid, kelp, NDemand and KILO technologies	Foliar, Irrigate, Soil	N/A	Liquid	No
TILL-IT BACKBONE® LIVE	6	21										0.3	<32° F	10.47	0.5% Humic Acid (30% Orthophosphate) + 1.2 million CFU of NUTRIO UNLOCK Microbes	Soil, Irrigate	6.5	Liquid	No
TILL-IT CONSTRUCT®	7	20										1	<20° F	10.35	1.7% Humic Acid	Foliar, Irrigate, Soil	6.6	Liquid	No
TILL-IT KOMPOUND®			19			6							<32° F	10.55	Potassium Thiosulfate (KTS) and Potassium Acetate mix with 6% Sulfur	Soil, Irrigate	7.5	Liquid	No
TILL-IT REKOIL			19			5							<32° F	10.79	Potassium Thiosulfate (KTS) and Potassium Carbonate mix with humic acid	Soil, Irrigate	8.5- 9.5	Liquid	No

BRANDED CROP PROTECTION ACTIVES

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Product	Pos	tioning			Active Ingredient	Pounds of AE/AI	Mi	ajor Crops		Formula	ation	Organic
CHILLAX®	CHILI	AX is a flowable micronized dispers cations and is recommended for us			Calcium	60% by weight	Agr	iculture, Greer I Nursery	ihouse,	Liquid		No
FUNGI	CIDE											
Product	Positio	oning		Active Ingredient	Pounds of AE/AI	Major Crop (PM: Labeled F	IS [;] or)	Disease	Controlle	d Fo	rmulatio	on Organi
BAJA®	Powder	I FRAC 7, FRAC 9 systemic fungicide 1 y Mildew and Botrytis. BAJA consiste nd provides disease control on clusi	ntly protects shoots and	Fluopyram Pyrimethanil	1.04 3.12	Grapes		Botrytis, p mildew	oowdery	Liqu	uid	No
ROMEO CA		ntive biofungicide that signals plants ol various plant pathogens.	to produce compounds	Cerevisane	0.23 - 0.91	Multiple crops	i	Powdery Mildew, I	and Downy potrytis	WP		Yes
SONATA®	oils and Resistan SONATA	ntional programs, use SONATA @ 2 c DMI chemistries for contact activity a ce (ISR)/ plant health benefit. In org @ 3 qt/A alternated with sulfur and r ced Systemic Resistance (ISR)/ plant I	nd an Induced Systemic nic programs, use vils for contact activity and	<i>Bacilius pumilus</i> Strain QST 2808	N/A 3	Grapes		Powdery	mildew		ieous pension O)	Yes
SPÄRRA®	phosphi fungicid	is the highest active ingredient load te in the market which provides brc e-bactericide control of downy mild <i>Phytopthora</i> , and many other key di	ad-spectrum systemic ew, powdery mildew,	Mono- and dipotassium sal Phosphorous A		Agricultural cro greenhouse cr and ornament conifers and o	ops, turf als, and	mildew, F Phytoptho	<i>ra</i> , and many	, ,	uid	No
SULFU Product	R	Positioning	(Do NOT U	lse when tem	os are above 90°I	Active		erage icron Size	Package Size		ulation	OMRI Approved
SPECIAL ELE DUSTING SU		A 98% dusting sulfur specially for no. 325 U.S.S. Sieve) and is non-	nulated to improve perform	nance. It is a fine s	ulfur (95% min. passe		34.	2 Microns	50 lb bag	Dust		Yes
SULFUR DRY FLOWABLE	,	SULFUR DRY FLOWABLE is a dust-f disintegrates and easily disperses particles of 10 microns or less, and are held in suspension as a dilute DRY FLOWABLE's increased numb qualities increase adherence to lea and California registrations as a fu	without formation of foam. I mixes easily in water withou or concentrate spray for use er of sulfur particles offers su ves and fruit and reduce wa	t includes fine gran ut any special agita by ground or aeria uperior coverage, w ash-off by heavy rai	ules containing sulfur tion. The sulfur particle I equipment. SULFUR /hile its spreader-sticke		3 N	<i>flicrons</i>	30 lb bag	Dry Flo	owable	Yes
WILBUR-ELL DUSTING SULFUR	IS	A 98% active sulfur dust formulat has been ground and sized throu as a fungicide and miticide and is	gh a 325-mesh. This produc	ct has both federal		98% Sulfur s	34.	2 Microns	50 lb bag	Dust		Yes
WIL-DRY®		WIL-DRY is a preventative sulfur a ground or air in grapes to contro			that can be applied b	y 25% Sulfur	4 N	licrons	50 lb bag	Dust o	r Powder	Yes
PLANT	HEA	LTH PROMOTER										
Product		Positioning			Active Ingredient	Pounds of AE/AI		or Crops Labeled Fo) Pes	sts ntrolled	Fo	ormulation
EMPLOY®		Employ is a biochemical plant healt pathogen response pathways that r and suppression of nematodes, im and increased overall yield in most	esults in protection from di proved fruit coloring and siz	sease, insects,	Harpin αß Protein	2-4 oz/A		s and tree nut			Dr	
OILS												
Product		eral Information	Cautions		16						ates	
PureSpray® Green		Spray Green is a 435 distillation point parrafinic oil.	Spray tank and all lines m reduce up to 10 days for g temps drop below 32°F c oil and shake for several r	grapes. Do not spra do not spray until c	ay water-stressed tree lay temps are above 3	s. Do not use whe 5°F. To test emul	en temps	are above 90°	F. If nighttime	e be	eing a dori	acre. 2 gallons mant application summer.
UTILIT		itioning			0	diauat						
Product		1111111111			Active Ingre	alent				- Ra	tes	



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Principal Functioning Agents % Equivalent Functionality Of 8.5# AMS Actual AMS

			Principal Agents 9	Equivale Of 8.5# /	Actual A
Product	Product Descriptions	Value Propositions	Pri Age	<u>a</u> p	Act
ADVANCED	WATER TECHNOLO)GY			
AQUATE® MAX	AQUATE MAX is an advanced formulation of multiple soil surfactants, which include two hydration and two infiltration surfactants.	AQUATE MAX is an advanced formulation of multiple soil surfactants designed to provide excellent infiltration of both water and nutrients into the plant root zone. AQUATE MAX also combines proprietary hydration technology that improves the holding capacity of the soil, resulting in a significant reduction of water and/or nutrient loss below the root zone.	87.30%	N/A	N/A
DRT/DEPO	SITION				
CROSSHAIR®	Microemulsion oil-based drift reduction adjuvant.	CROSSHAIR is designed for customers wanting to manage the physical drift of their spray material when making applications near and/or next to sensitive crops. With the use of CROSSHAIR, the applicator reduces the risk of off target crop injury and/ or unacceptable crop contamination. It is formulated as an easy-to-use liquid that is generally poured into the spray solution tank mix last but can be used at any time during the application. CROSSHAIR is also very effective in helping deposit more spray droplets onto the plant tissue allowing for more active ingredients to hit the intended target. By delivering both drift reduction and deposition, CROSSHAIR has significant potential for reducing risk associated with spraying pesticides and is a great way to help deliver a positive return on the application investment.	100%	N/A	N/A
EFFICAX®	EFFICAX is a modifed seed oil formulated to aid in the deposition of spray droplets.	EFFICAX utilzes proprietary technology and is designed for customers that want to optimize the residual activity from their pre- plant/pre-emergent chemistry. EFFICAX helps to increase the spray deposits of the spray material allowing for better coverage and adhesion to the soil particles, which results in enhanced control of early season weed pressures. EFFICAX is labeled for use in agriculture, forestry, golf course, industrial, non-cropland, roadside, turf and ornamental.	100%	N/A	N/A
OIL					
HASTEN-EA®	HASTEN-EA is a modified vegetable oil developed as a penetrating/surfactant concentrate with excellent wetting and penetrating characteristics.	HASTEN-EA is patented ethylated seed oil formulation, making it a safer product to use on sensitive crops. HASTEN-EA is designed for customers using systemic spray materials that will benefit from excellent wetting and penetration, allowing the AI to move into and throughout the plant for higher efficacy. With its broad use in insecticides and fungicides, HASTEN-EA can be used in both concentrate or dilute applications for handling flexibility in spraying ground, air, backpack or chemigation.	100%	N/A	N/A
RENEGADE-EA®	RENEGADE-EA is a patented blend of methylated seed oil, UAN solution and nonionic surfactant.	RENEGADE-EA is a multifunctional blend for customers needing an oil with the added benefit of nitrogen and a surfactant. RENEGADE-EA is a patented microemulsion of a high-quality MSO at a higher concentration than most competitive products on the market, providing for better retention on a plant surface, and therefore lower use rates. The UAN in RENEGADE-EA provides just enough nitrogen to make the plant more receptive to absorption of the spray solution, creating better penetration of the leaf surface. The UAN and NIS help the plant continue to absorb the AI even after the spray droplet has dissipated. The nonionic surfactant reduces surface tension on the leaf surface, contributing to improved penetration of the AI deposit. With tank mixes becoming more complex, the microemulsion technology in RENEGADE-EA provides flexibility for use with multiple products, often saving growers time and money by reducing a pass through the field.	83.40%	N/A	N/A
SYL-TAC-EA®	SYL-TAC-EA is a premium ESO and silicone blend.	SYL-TAC-EA is a proprietary formulation designed for customers needing to move the AI into the plant efficiently along with providing excellent spreading and wetting of the spray material. The translaminar effect of SYL-TAC-EA provides the ability to move locally systemic spray materials from the top of the leaf, all the way through to target pests on the underside of the leaf. SYL-TAC-EA is the best choice for use with translaminar insecticides and fungicides, but can also be used with both contact and systemic herbicides. SYL-TAC-EA has excellent crop safety, making it the best choice for a variety of sensitive crops.	100%	N/A	N/A
SURFACTA	NT				
ANTERO-EA®	ANTERO-EA is a nonionic surfactant and organic polymer blend.	ANTERO-EA is a proprietary spreader and sticker that has excellent crop safety for sensitive crops. ANTERO-EA resists "wash- off," which helps retain your spray material on plant surfaces. Well-designed for use with contact fungicides and insecticides, ANTERO-EA can also be used with herbicides and has proven to work well with auxin-based chemistries, making it a flexible tool for the grower.	63%	N/A	N/A
EMBRECE-EA®	EMBRECE-EA is a high concentrated proprietay nonionic surfactant blend.	EMBRECE-EA is a proprietary blend of nonionic surfactants designed to increase the level of performance of fungicide and insecticide applications. Utilizing patent technology, EMBRECE-EA provides superior coverage of the spray material across the leaf surface, leading to better control of the targeted pest. EMBRECE-EA can be used in a variety of systemic and contact fungicide/insecticide applications.	78.9%	N/A	N/A
INFOLIUM-EA®	A high concentration, nonionic (NIS) adjuvant designed for optimal activation and penetration of pesticide(s) that is approved for use in organic production. Provides the best deposit composition to improve active ingredient coverage and absorption.	INFOLIUM-EA uses patented technology to improve spray efficacy and consistently has increased performance over standard surfactants. INFOLIUM-EA can be used with various spray applications that would benefit from efficiently moving the AI into the plant with consistent wetting and spreading for uniform coverage. Reducing the surface tension between the AI and the plant cuticle, INFOLIUM-EA increases absorption and translocation, moving the AI into the water channels of the leaf, resulting in better efficacy of the spray solution. INFOLIUM-EA provides uniform coverage of the spray droplets onto the plant tissue itself.	98%	N/A	N/A
R-11® SPREADER- ACTIVATOR	Spreader-Activator improves the activity and efficacy of the spray application by reducing surface tension and increasing penetration into the plant surface.	R-11 is designed for customer applications that require a nonionic surfactant to allow for quick wetting and uniform coverage of the spray material. The activator component has the potential to increase the absorption and translocation of systemic spray materials into water channels within plant tissue. R-11 is labeled for use with insecticides, fungicides, miticides, herbicides, defoliants, desiccants and plant growth regulators.	90%	N/A	N/A
SYL-COAT®	Premium silicone surfactant.	SYL-COAT is specifically designed for customer applications of various agricultural spray materials that would benefit from quick wetting and spreading for uniform coverage especially on difficult-to-wet plant surfaces. It increases the amount and rate of uptake of water-soluble herbicides, which allows for more consistent control of the targeted weed species. SYL-COAT improves the wetting of fungicides and insecticides and reduces overall surface tension of the spray material on plant surface.	100%	N/A	N/A

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Product	Signal Word	CPDA Certified	Organic	WA Only Aquatic	Aquatic	Mixing Caution	NPE Free	Micro Emulsion	Macro Emulsion	Invert Emulsion Suspension	Enhances Uptake	Sticker	Spreader	Deposition	DRT	pH Effect	Mineral Antagonism Tie-Up	Built-In Tank Mix Defoamer	Water Conditioner Func.	Oil Content	Oil Type	Surfactant Content	Surfactant Type
AQUATE" MAX	Warning	No	No	No	A N No	ADV	Yes	No	No	No	No	No	Yes	No	No	No	No	No	No	N/A	N/A	Proprietary	Blend of Anionic and Nonionic
POSITION	T/DE	DR																					
g CROSSHAIR®	Warning	Yes	No	No	Yes	GoldSky® or water temperature below 34 degrees	Yes	Yes	No	No	No	No	No	Air and Ground	Air and Ground	No	No	No	No	Proprietary	MSO		N/A
EFFICAX®	Warning	No	No	No	No		Yes	Yes	No	No	No	No	No	Yes	No	No	No	No	No	Proprietary	MSO	N/A	N/A
OIL																							
HASTEN-EA®	None	Yes	No	Yes	Yes		Yes	No	No	No	Yes	No	Yes	No	No	No	No	No	No		ESO		Nonionic
; RENEGADE-EA®	Warning	Yes	No	Yes	Yes		Yes	Yes	No	No	Yes	No	Yes	No	No	No	No	No	No	40.84	MSO	19.45%	Nonionic
SYL-TAC-EA®	None	Yes	No	Yes	Yes		Yes	No	No	No	Yes	No	Yes	No	No	No	No	No	No	N/A	ESO	40%	Nonionic
RFACTANT	SUR																				_		
ANTERO-EA®	None	No	No	Yes	Yes		Yes	No	No	No	Yes	Yes	Yes	No	No	No	No	No	No	N/A	N/A	Proprietary	Nonionic
EMBRECE-EA®	None	No	No	Yes	Yes		Yes	No	No	No	Yes	No	Yes	No	No		No	No	No	N/A	N/A	78.90%	Nonionic
INFOLIUM-EA®	None	Yes	omri	Yes	Yes		Yes	No	No	No	Yes	No	Yes	No	No	No	No	Yes	No	N/A	N/A	88%	Nonionic
R-11 [®] SPREADER- ACTIVATOR	Warning	Yes	No	No	Yes		No	No	No	No	Yes	No	Yes	No	No	No	No	No	No	N/A	N/A	80%	Nonionic
s SYL-COAT®	Warning	No	omri	No	No	Use Within 72 Hours	Yes	No	No	No	Yes	No	Yes	No	No	No	No	No	No	N/A	N/A	100%	Nonionic



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Principal Functioning Agents % Equivalent Functionality Of 8.5# AMS Actual AMS

Product	Product Descriptions	Value Propositions	Princ Agen	Equi Of 8.	Actua
UTILITY					
FTF® DEFOAMER	Highly concentrated, high performance defoamer designed for controlling both entrained air and foam forming surface tension in agricultural spray.	FTF DEFOAMER is designed for customers needing to either eliminate existing foaming in a sprayer tank or prevent foam from forming during the filling and agitation process. It performs well with all agricultural chemicals and is especially effective on difficult-to-control foaming problems in agricultural spray mixes. FTF DEFOAMER is highly concentrated allowing for lower use rates per 100 gallons of spray solution.	29.53%	N/A	N/A
WATER QU	JALITY				
CAYUSE® PLUS	Combination of a surfactant plus a nitrogen source.	CAYUSE PLUS is designed for customer applications of postemergent herbicides in spray water that contains minerals antagonistic to the herbicides. It provides the convenience of an ammonium sulfate and surfactant combination package all in one container. The surfactant that is in CAYUSE PLUS is unique in terms of how well it works in both loaded and unloaded glyphosate herbicides. CAYUSE PLUS can increase the performance of various herbicides.	33.50%	2 qt /100	1.25#
CYNDER®	A water quality alternative to AMS plus a surfactant that works to enhance various herbicides, such as tank mixes that contain weak acid herbicides like glyphosate, allowing faster absorption of the herbicide for a quicker response.	CYNDER is a multifunctional adjuvant designed to aid in the effort of managing difficult-to-control weeds. CYNDER provides adequate conditioning of the spray mix solution along with buffering the pH to alleviate the antagonistic effects from hard water minerals. In addition to these features, CYNDER has an added benefit of a surfactant in the formulation, which allows for better wetting and spreading of the spray material onto the leaf surface. CYNDER helps to enhance the herbicidal activity on the target species and is ideal for use with most post-herbicide tank mixes, which include combination of products such as glyphosate and 2,4-D.	56.40%	4 pt /100	N/A
TRI-FOL®	Acidifying buffer–very good buffer for insecticides and fungicides. Note: Not labeled for copper fungicides.	TRI-FOL is for use in customer applications to lower spray water pH and prevent the breakdown of spray materials that can degrade and become less stable in high pH (above pH 7.0) water used for spraying. Utilizing organic acids in the formulation allows for safe use through spray equipment, alleviating any concerns related to corrosive materials. TRI-FOL can be used with most insecticides, fungicides and herbicides in an effort to help realize the greatest potential return on the application investment.	34%	N/A	N/A



Surfactant Type	Surfactant Content	Oil Type	Oil Content	Water Conditioner Func.	Built-In Tank Mix Defoamer	Mineral Antagonism Tie-Up	pH Effect	DRT	Deposition	Spreader	Sticker	Enhances Uptake	Invert Emulsion Suspension	Macro Emulsion	Micro Emulsion	NPE Free	Mixing Caution	Aquatic	WA Only Aquatic	Organic	CPDA Certified	Signal Word	Product
																							UTILITY
N/A	N/A	N/A	N/A	No	Yes	No	No	No	No	No	No	No	No	No	No	Yes	Highly concentrated	No	No	No	No	None	FTF® DEFOAMER
																					W	ATER	QUALITY
Nonionic	7.84	N/A	N/A	Yes	No	Yes	No	No	No	Yes	No	Yes	No	No	No	Yes		No	No	No	Yes	None	CAYUSE® PLUS
Anionic + Nonionic	21%	N/A	N/A	Yes	No	Yes	Acidifier	No	No	Yes	No	Yes	No	No	No	Yes		No	No	No	No	Warning	CYNDER®
N/A	N/A	N/A	N/A	Yes	No	No	Lowers	No	No	No	No	Yes	No	No	No	Yes		No	No	OMRI	No	None	TRI-FOL®



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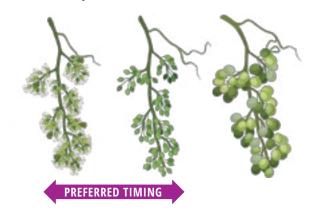
Fight Back Fast | FRAC 7 and 9 Fungicide



- BAJA[™] is a dependable, systemic fungicide specifically designed to fight back against powdery mildew and botrytis.
- BAJA consistently protects shoots, leaves, and grape clusters by providing broadspectrum control.

KEY BOTRYTIS & POWDERY MILDEW TIMINGS

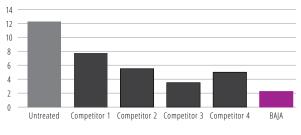
- Immediately prior to bloom, prior to BBCH 73 stage, or before berry touch
- Immediately after bloom



BAJA CONTROLS BOTRYTIS IN GRAPES

% Severity (rotten berries per cluster)

Three Applications



Trial #FP13USAM3DUNY1

This was a trial plot for demo purposes only

Larry Bettiga, UCCE, Salinas Valley

BAJA BENEFITS



Control powdery mildew and botrytis

.....

Maximize vine health and reduce shatter for greater harvest timing flexibility



Higher quality fruit and healthier vines



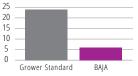
Great tank mix rotation option

BAJA PROVIDES HIGHER GRAPE YIELD BY REDUCING BOTRYTIS SEVERITY

Botrytis % Incidence



Botrytis % Severity



Trial #FP13USAGMPUNY1 White Hills, CA





WILBUR-ELLIS COMPANY LLC



BenVireo[®] Stimtide[®] is an innovative biostimulant designed to increase plant energy and strengthen plant metabolism for more resilient growth and development. BenVireo Stimtide reduces nutrient loss, phytotoxicity from herbicide application, and plant stress. Its action being quick and effective, it can be safely applied on all types of crops with benefits on nutrient uptake, yield, size and quality, and plant health.

GUARANTEED ANALYSIS

Total Nitrogen (N)	5.00%
Water Soluble Nitrogen	5.00%

DERIVED FROM: Vegetal Protein Hydrolysate



CONTACT YOUR LOCAL WILBUR-ELLIS REPRESENTATIVE OR SCAN HERE TO LEARN MORE

BENVIREO STIMTIDE BENEFITS



Reduced plant stress from environmental situations



Improved nutrient uptake



Increased plant vigor and chlorophyll content



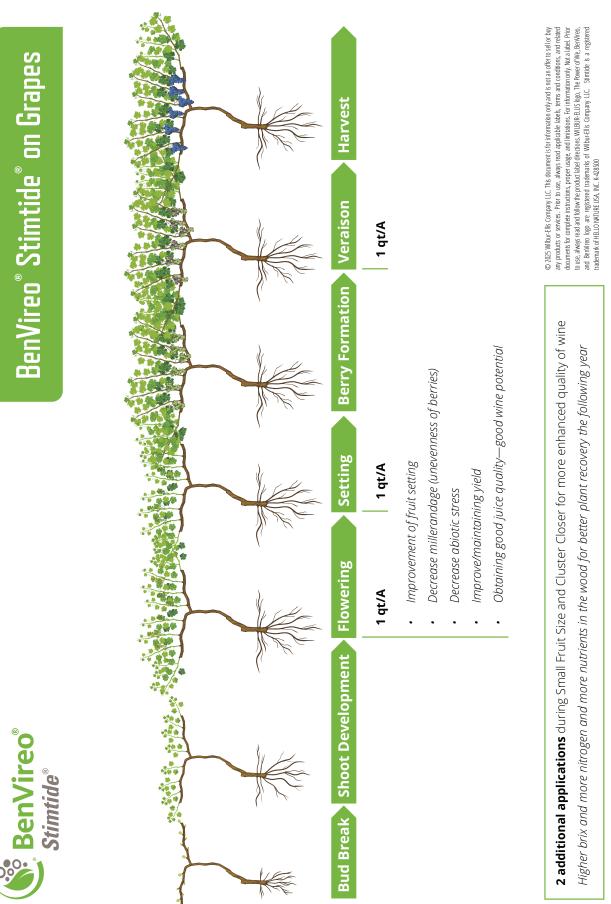
Enhanced fruit quality, color, size, and caliber

APPLICATION RATES AND TIMINGS ON GRAPES

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<u>BenVireo® Stimtide® on Grapes</u>

NUTRITION ORGANIC

THE POWER OF WE' 🧱 WILBUR-ELLIS.

Raise a Glass to the Cooling Power of CHILLAX®

- Increases bunch quality
- Increases brix count
- Decreases surface temperature

Elevate your wine production by harnessing the power of CHILLAX®, ensuring optimal conditions for your vines. Prior to the heat event, a timely application of CHILLAX can maximize the energy production of the plant. Engineered to combat heat stress and sunburn, it provides wine grapes with the ideal environment for enhanced growth and plant health, unlocking your plants' full potential.

CHILLAX BENEFITS



Reduces vine surface temperature and stress for better plant health

ABIOTIC STRESS MANAGEMENT



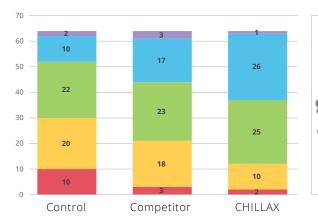
Maximizes photosynthesis

Increases yield and quality of grapes



Smaller particle size for better light refraction—greater utilization of available sunlight

CHILLAX IMPROVES CLUSTER QUALITY RATING



Effects of CHILLAX on Pinot Noir Cluster Average Quality Ratings (Scale 1-5) King City, CA

5

3

Grapes treated with CHILLAX had an 8% greater average quality rate than the competitor product and a 24.1% greater average quality rate than the control.

WCR23G102CC702

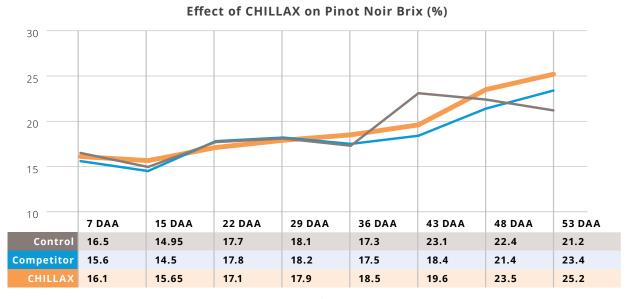
SEEING IS BELIEVING -



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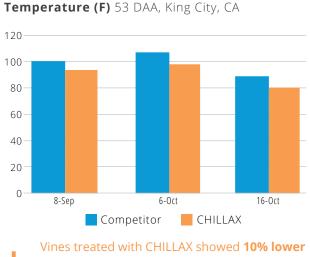


BRIX INCREASE THROUGHOUT THE SEASON



WCR23G102CC702

FULL SEASON TEMPERATURE CONTROL FOR LESS VINE STRESS

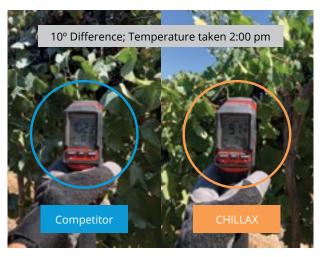


Effect of CHILLAX in Pinot Noir Average Leaf

Vines treated with CHILLAX showed **10% lower temperatures** than those treated with the competitor product across the season.

Temp @ 2:00pm Daily

WCR23G102CC702



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WILBUR-ELLIS.

Suppress Nematodes and Increase Yields and Fruit Quality

Employ

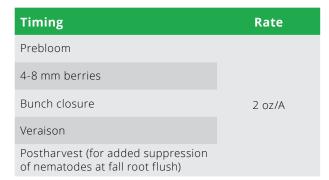
Employ® is a biochemical pesticide that suppresses nematode egg production, which can lead to healthier roots and plants, improved nutrient uptake, higher quality of fruit, and facilitates integrated pest management programs.

Harpin α ß, the 2nd generation of the Harpin protein present in Employ, is a biochemical produced by many pathogenic bacteria that signals plants' immune response and defense pathways that results in improved growth, coloring, and fruit size of grapevines and increased overall yield of certain crops.

NEMATODE SUPPRESSION SUPPORTS

- Healthier roots
- Improved berry coloring
- Improved berry brix
 Increased yields

BEST USE RECOMMENDATIONS ON GRAPES

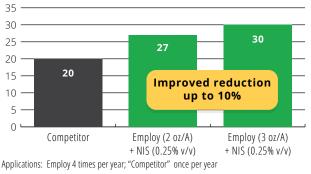


EMPLOY BENEFITS



EMPLOY WINE GRAPE NEMATODE SUPPRESSION

Avg. (%) Reduction of Root Knot Nematodes Across 3 Years



Location: Five Points, CA| Crop: Grape 'Magnum Chardonnay 69 French 76' rootstock 3309, planted and inoculated May 15, 2017

Pest: Root knot nematode, Meloidogyne spp.

Data provided by Plant Health Care

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WILBUR-ELLIS.



EMPLOY WINE GRAPE TRIAL | GRENACHE

Employ's versatility of application timings on the Grenache variety shows increased brix vs. grower standard.

EVALUATION DATE	BRIX IN EMPLOY BLOCK	BRIX IN GS BLOCK	% INCREASE
8/11/21	18.6	17.2	8.13%
8/18/21	19.4	18	7.77%
8/25/21	20.8	18.7	11.22%
9/1/21	21.5	19.8	8.58%
		Average	+8.9%

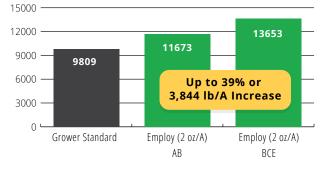
Applications: Employ @ 2.1 oz/A at the beginning of flowering May 13, 2021, June 5, 2021, and June 26, 2021

Location: Valle de San Vicente, Ensenada, Baja California, Mexico Crop: Grape 'Grenache' harvested on 9/1/21 Data provided by Plant Health Care





EMPLOY WINE GRAPE TRIAL | PINOT NOIR Yield (lb/A)



Applications: A = 4/1/22 @ 12-24 inch shoot; B= 6/8/22 @ fruit set; C=7/6/22 @ bunch closure; D=8/10/22 @ veraison; E=8/24/22 @ two weeks before harvest.

Location: Lompoc, California | Crop: Grape 'Pinot Noir' ' harvested on 9/7/22

Data provided by Plant Health Care



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ACTIVES



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Superior Solubility for Brix Levels

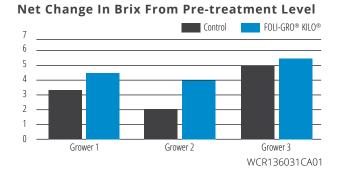
Engineered using the most readily soluble and accessible potassium source, the acetate found in FOLI-GRO® KILO® stimulates natural biological processes, resulting in heightened brix levels. By utilizing FOLI-GRO KILO through foliar applications, vines get the boost they need to restore depleted potassium levels.

Higher potassium levels in grapes help translocate sugars into fruit, translating into higher berry weight and brix at harvest. Furthermore, FOLI-GRO KILO effortlessly blends with other fertilizers, streamlining application procedures and reducing costs.

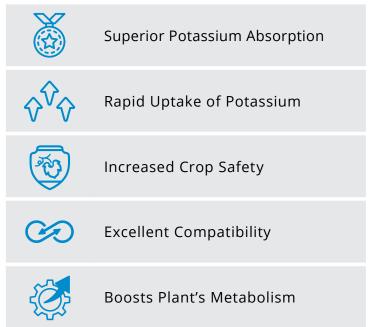
RECOMMENDED APPLICATION

At early veraison and early brix (14-18 degrees), apply 1 gal of FOLI-GRO KILO plus desired tank mix partners.

REPLENISH POTASSIUM LEVELS TO ACHIEVE BRIX



FOLI-GRO KILO BENEFITS



FOLI-GRO[®]

POTASSIUM ABSORPTION PERCENTAGE

Potassium Source	% Potassium Absorbed	Treated Area Description
Potassium acetate	47.3	MS
Potassium bicarbonate	39.3	SD
Potassium Citrate	12.0	MS
Potassium thiosulfate	9.5	SD, SB
Potassium chloride	9.4	SD
Potassium sulfate	8.8	SD
Potassium nitrate	7.4	SD

MS = Moist Spot, SD = Salt Deposit, SB = Slight Burn Texas A&M, Plant Nutrition, 9(2), 143-157

GUARANTEED ANALYSIS

Soluble Potash (K₂O)......24.00% DERIVED FROM: Potassium Acetate.



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Amplify Your Crop Protection Program

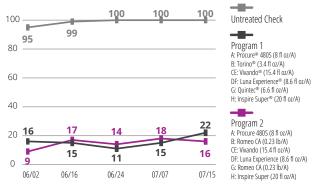
Romeo CA

0-day PHI

Disease suppression and control with a unique mode of action without known resistance Valuable tool to be used in an effective conventional resistance management program

Romeo CA is a preventive fungicide that signals plants to produce compounds to control several plant pathogens, including powdery mildew. The yeast-based active ingredient is non-living and contains five constituents, each individually and uniquely contributing to disease control.

Incidence on Clusters %



Very high disease pressure (100% incidence in UTC).

 Chemical program and chemical rotating with Romeo CA program show similar protections (same stat group). Data Supplied by Agrauxine | Hickman, CA 2020

ROMEO CA BENEFITS



Delayed disease onset with early application



Build plants' own resistance to disease by inducing systemic resistance



Strengthen vines for later applications within program



Provide substantial control in light to medium pressure

GROWTH STAGE	PRODUCT	RATE AND COMMENTS
Pre-Bloom	Romeo CA (FRAC P06) [and Sonata® (FRAC BM02)]	0.23 lb (2 quarts) *April 4-7, region/weather dependent
Bloom	BAJA™ (FRAC 7, 9)	14 fl oz or other FRAC 9, 11, 12, 17 products
Late Bloom	Romeo CA (and Sonata)	0.23 lb (2 quarts)
Prior to Berry Touch	BAJA	14 fl oz/acre
Early Shoot Development and Through Season on 14-Day Schedule	,	4-6 lbs/acre
6-8 inch long shoots, 12-15 inch long shoots, and third application 14 days later.	Dusting Sulfur	10-20 lbs/acre Repeat applications as necessary to protect new growth.





WILBUR-ELLIS COMPANY LLC





Bo Christy

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Healdsburg	160 Grant Ave	95448
Ord Bend	8168 County Rd 33	95943
St. Helena	975 Vintage Ave	94574
Twin Cities (Elk Grove)	4707 Twin Cities Rd	95758
Ukiah	201 Thomas Ave	95482
Willows	6504 County Rd 57 PO Box 1303	95988
Woodland	1785 E Beamer St PO Box 877	95776
Woodland South	38001 County Rd 27	95695
Yuba City	900 N George Washington	95993

Brooks Craven

Southern California Territory Manager (559) 829-7368 bcraven@wilburellis.com

El Nido	782 W Washington Rd	95317
Exeter	25244 Rd 204	93221
Helm	12550 S Colorado Ave PO Box 125	93627
Hughson	6800 E Whitmore Ave	95326
King City (Aerial)	999 Bitterwater Rd	93930
Manteca	13771 S Prescott Rd	95336
Salinas	1427 Abbott St	93901
Shafter	925 Golds Ave PO Box 939	93312
Soledad	32530 Silliman Rd	93960

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