



CALIFORNIA  
**Product Catalog**

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- Manganese Dextro-Lac

## Product Symbols



### OMRI CERTIFIED

Certified for use in organic crops.



### APE/NPE FREE

Formulated without alkylphenol ethoxylates and nonylphenol ethoxylates.



### CPDA CERTIFIED

Certified to meet CPDA performance standards and EPA regulations.

- Nutra-Grain D.L.
- Potassium Finishing Solution
- Sil-Cal D.L.
- Top Set D.L.
- Vigor-Cal
- Vigor-Cal with Boron
- Vigor-Cal-Bor-Moly
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- Agrobest 9-24-3
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- Clean Cal-Bor-Moly
- Clean Cobalt
- Clean Copper
- Clean Iron
- Clean Magnesium
- Clean Manganese
- Clean Micro-Mix
- Clean Molybdenum
- Clean Potassium 0-0-6
- Clean SeaCal 0-0-0.15

- Clean Symspray 0-0-1
- Clean Top-Set
- Clean Zinc

#### **SYSSTEM**

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- Sysstem-Cal 0-14-0
- Sysstem-K 0-30-20
- Sysstem-LeafMax 0-20-0
- Sysstem-Mg 0-35-0
- Sysstem-Mn 0-35-0
- Sysstem-Ready 0-35-0
- System-SeaCal 0-14-0.15
- Sysstem-ZMag 0-35-0
- Sysstem-Zn 0-35-0

# Our Technologies

## OROWET® Technology

A proprietary combination of cold-pressed citrus oil and a patented surfactant mixture forms the base for manufacturing a diverse range of products, including adjuvants, pesticides and soil conditioners.

Products containing OROWET provide a more sustainable alternative with reduced environmental impact compared with traditional chemistries.

## MYRIAD® Technology

MYRIAD® technology represents the future of adjuvants, utilizing a patented formulation with a complex blend of botanical extracts and premium surfactants. This proprietary mixture of fatty acids, wintergreen and other plant-based substances creates a microemulsion and maintains the suspension of active ingredients, optimizing their performance. Products with MYRIAD® technology are especially suitable for use with all pesticides including biologicals and those based on volatile plant oils.

## CLEAN Series

CLEAN branded nutrient products are specifically formulated for organic crop producers. This comprehensive line of organic crop inputs is designed to help growers achieve their crop nutrition goals while adhering to USDA National Organic Standards. Products are certified by the Organic Materials Review Institute (OMRI), California Organic Input Material (OIM) program and Washington State Department of Agriculture (WSDA).

Natural organic chelation combined with a proprietary fermentation process results in nutrition that is both gentle on plant tissue and rapidly absorbed to meet the needs of developing crops. CLEAN means minimized environmental impacts with no compromise to profitability.

## Dextro-Lac® Series

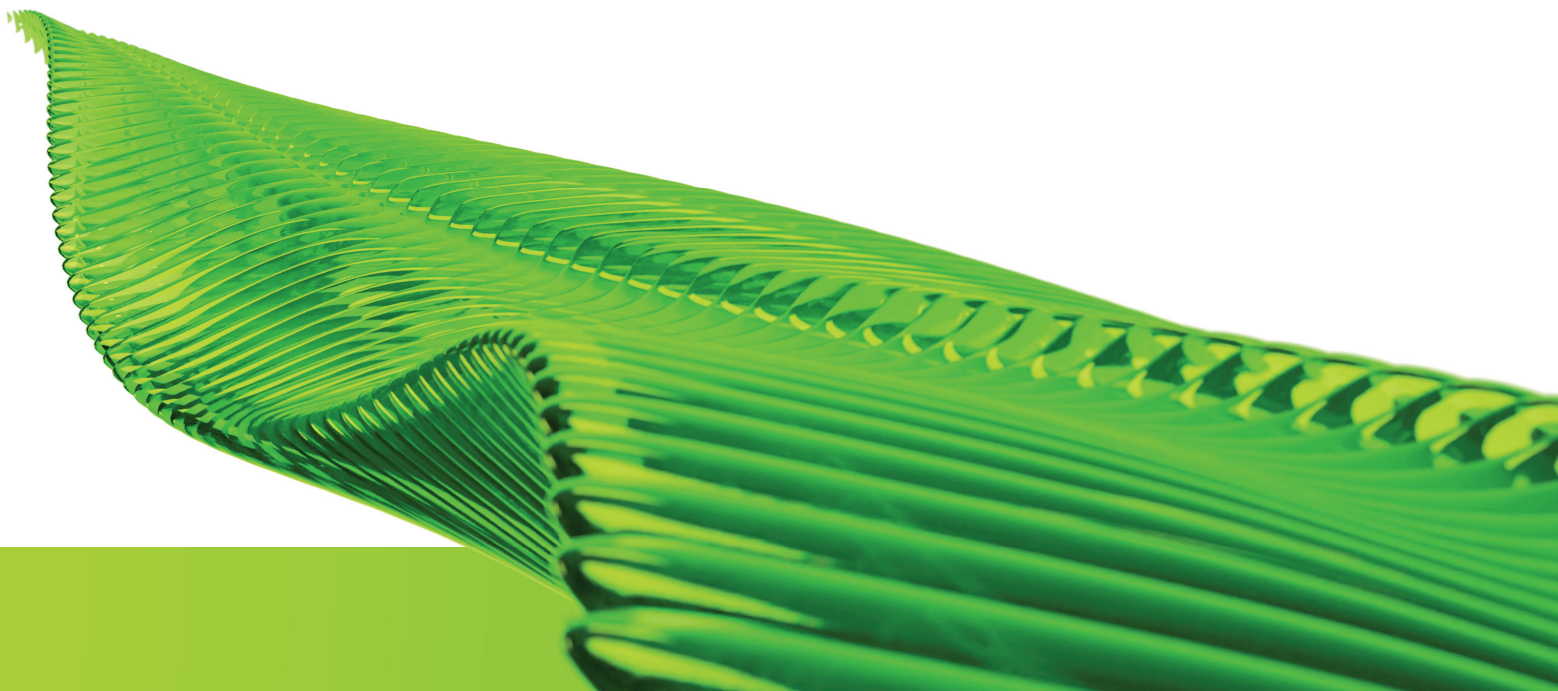
Dextro-Lac® products utilize a proprietary complexing process in which two biologically important carbohydrate molecules—dextrose and lactose—are used to stabilize and protect nutrients. This sugar-based complex is easily transported across cell membranes ensuring rapid and complete penetration of plant tissues.

Dextro-Lac is an ideal carrier for plant nutrients, and once inside the cell can be easily metabolized by the plant system. Unlike traditional chelated foliar nutrients, Dextro-Lac formulations require less energy expenditure to access the nutrients making them immediately plant available.

## Sysstem® Series

Sysstem® series phosphite-based foliar nutrients are designed to enhance crop quality and overall plant health. Nutrients complexed to a phosphite ion are highly systemic, allowing them to travel rapidly throughout the plant. Phosphite being both phloem and xylem mobile enhances the rapid delivery of applied nutrition and is crucial for meeting “peak nutrient demand timing.”

Sysstem series products enhance balanced soil fertility programs and are intended to supplement traditional fertilizer practices. Phosphite-based nutrients improve the overall efficacy of soil applied fertilizers by inducing a “root flushing” effect which enhances both the natural root exudate process and foraging capacity through increased root mass.



# Biocontrol



## PREV-AM

PREV-AM® is a versatile 3-in-1 contact fungicide, insecticide, and miticide that provides broad-spectrum, fast-acting control, and improved spray coverage. Ideal for use in IPM programs as an alternate mode of action. PREV-AM has no preharvest interval and is exempt from residue requirements on registered crops.



## TYPHOON

TYPHOON® is a contact fungicide for field and greenhouse use, effectively controlling some of the most challenging diseases like *Botrytis*, downy mildew, *Alternaria* and *Phytophthora*. With no REI or PHI, TYPHOON is ideal for disease resistance management. It can be rotated with other fungicides and used late in the season up until harvest.



## System-K Blue

System-K Blue is an EPA-labeled potassium phosphite solution for control or suppression of a wide range of plant diseases in both soil and foliar applications. It acts primarily as a preventative fungicide by acting directly on the pathogen and stimulation of natural host defenses.



## Cinnaction



Cinnaction® is an OMRI certified, broad-spectrum biopesticide combining cinnamon, castor, and sunflower oils. It provides fast-acting control of powdery mildew, mites and more, with no restricted entry interval and maximum residue limit exemption. Cinnaction can be used in IPM programs in both organic and conventional agriculture.



## Thymic



Thymic® is an OMRI certified, broad-spectrum liquid biopesticide combining thyme, castor, and sunflower oils, offering rapid knockdown of aphids, whiteflies, bacteria and more. Thymic has no REI or visual residue and is ideal for IPM programs in organic and conventional farming.



## Garland



Garland® is an OMRI certified insecticide and repellent formulated with garlic oil. It effectively reduces pests through sulfur-based volatile terpenes. Garland is ideal for IPM programs in organic and conventional agriculture, with no garlic taste in crops.



## MILAGRUM PLUS



MILAGRUM PLUS® is an OMRI certified, EPA-registered organic fungicide with *Bacillus subtilis* strain IAB/BS03 in a robust formula with a 2-year shelf life. The product can be used to enhance plant defenses against disease infections. MILAGRUM PLUS can be used in IPM programs in both organic and conventional agriculture.

# Adjuvants



## VINTRE

VINTRE® is a highly effective foliar adjuvant designed for trees, vines, berries, and small fruits. It features patented OROWET® Technology for enhanced spreading and penetration of pesticides and nutrients.



## WETCIT

WETCIT® is a cutting-edge penetrant, spreader and wetting agent for use in vegetables and broad acre crops. It serves as a highly effective non-ionic surfactant that enhances the performance of foliar-applied pesticides and nutrients.



## OROBOOST

OROBOOST® is an effective, certified organic non-ionic surfactant formulated with patented OROWET® Technology to enhance the performance of foliar-applied pesticides, herbicides, and nutrients.



## TRANSFORMER

TRANSFORMER® is a soil wetting aid and soil penetrant that conditions soil by improving water infiltration, to overcome physical soil limitations and thereby enhancing water use and irrigation efficiency.





## HOWITZER



HOWITZER® is a premium penetrant, spreader and wetting agent containing MYRIAD® Technology. It is highly effective in enhancing the performance of foliar-applied pesticides and nutrients.



## SKYHAWK



SKYHAWK® is an effective, OMRI certified non-ionic surfactant (NIS) that enhances the performance of foliar-applied pesticides, herbicides, and nutrients. Utilizing patented MYRIAD® Technology, SKYHAWK elevates your organic cropping system.



## SHRAPNEL



SHRAPNEL® is a non-ionic surfactant to enhance the spreading and wetting properties of the spray solution and assist in overcoming the water repellency of the leaf surface.



## ATTITUDE



ATTITUDE® is a premium water conditioning agent and acidifier designed to reduce the pH of tank mix spray solutions and ensure optimal performance of crop inputs.

## ADJUVANTS



### SQUALL

SQUALL® is an acidifier to help reduce the pH of the spray solution paired with an effective spreader to increase the coverage of foliar pesticides.

APE/NPE  
FREE



### PK ASSIST

PK ASSIST® is a soil conditioner, penetrant and humectant that is highly compatible with liquid fertilizer mixtures. It can be applied with high-salt or liquid starter fertilizers to improve soil moisture, nutrient availability and root development.

# Nutrition



## BioMax O.C.

Ca 1% Co 0.2% Mo 0.05%

BioMax O.C. is a non-living microbial food source and micronutrient designed to be compatible with ortho- and polyphosphate-based starter fertilizer blends. It accelerates the biological activity of beneficial soil microbes to improve soil nutrient availability.



## ENCOURAGE CLASSIC

K<sub>2</sub>O 2% N 2% P<sub>2</sub>O<sub>5</sub> 1% Fe 0.4% Mn 0.1% B 0.03%

ENCOURAGE® CLASSIC is a balanced fertilizer designed to support vegetative growth and reduce herbicide drag in all crops. It can be applied with glyphosate and other herbicides where crop stunting is a concern. ENCOURAGE CLASSIC is formulated with OROWET Technology to enhance general pesticide performance.



## ENCOURAGE NANOCAL

Ca 10% N 4% K<sub>2</sub>O 1%

ENCOURAGE® NANOCAL® is a highly effective submicronized calcium carbonate-based supplement designed to enhance early season plant strength and crop quality. It offers readily available calcium during critical periods of high demand, such as fruit and tuber development. Its unique formulation utilizing OROWET Technology ensures superior absorption and effectiveness.



## RootMax 1-0-0.5

N 1% K<sub>2</sub>O 0.5% Co 0.15%

RootMax is designed to improve the soil environment and enhance nutrient efficiency. It blends a non-living microbial fermentation mix that increases the biological activity of native soil microbes with seaweed based Symbooster.

## NUTRITION



### Super Symcoat

**Mn** 5.5% **Zn** 5.25% **Cu** 0.25% **Co** 0.05% **Mo** 0.05%

Super Symcoat is a seaweed based, seed applied specialty nutrient system to assist germination and accelerate crop establishment. The product is formulated to improve the bio-available micronutrient supply during the critical period of stand establishment.



### Symbooster 10X

**Mn** 0.5% **Zn** 0.5% **Co** 0.1% **Mo** 0.01%

Symbooster 10X is a seaweed and micronutrient based fertilizer designed for soil application to encourage early root development.



### Symco-28

**Co** 1.5% **Mo** 1.5% **K<sub>2</sub>O** 1% **Mn** 0.5% **Zn** 0.5%

Symco-28 is a seaweed-based micronutrient fertilizer designed for flexible use in soil or as a foliar spray. Soil-applied, it supports beneficial microbial activity and nutrient availability. Foliar applications can aid fruit set, help crops tolerate abiotic stress, and increase yield.



### Symspray 0-0-1

**Mn** 1.5% **Zn** 0.7% **Co** 0.17%

Symspray® is a stabilized seaweed and micronutrient foliar spray solution designed to reduce plant stress at critical physiological growth stages. It aids in plant growth, nutrient translocation, root development, and both physiological and environmental stress relief. Cold water-sourced *Ascophyllum nodosum* is used as a base due to its proven efficacy, higher natural compound levels and better product performance.



## Vegenergy 4-0-0

N 4%

Vegenergy® is a highly concentrated L-α free amino acid liquid fertilizer derived from protein hydrolysate designed to increase crop growth and production. It improves conditions for tolerance of abiotic stress making it a versatile tool for consistent crop production, particularly between bloom and setting in high-value crops.



## Dextro-Lac

The Dextro-Lac Series are liquid fertilizers intended for foliar use.

### PRODUCTS

- Calcium Dextro-Lac 5%
- Iron Dextro-Lac 5%
- Magnesium Dextro-Lac 3%
- Manganese Dextro-Lac 5%
- Nutra-Grain D.L.
- Sil-Cal D.L.
- Vigor Copper
- Zinc Dextro-Lac 10%



## Aurora

S 3% Cu 1.5% Mn 0.2% Mo 0.1%

Aurora is a specialized blend of sulfur and specific micronutrients designed to correct or prevent deficiencies. Aurora has been proven effective in enhancing the coloration of Honeycrisp apples.



## Cal Sea-Set 0-0-0.15

Ca 5% B 0.4% Mo 0.2%

Cal SeaSet supplies calcium with boron and molybdenum in a foliar spray built with SymSpray. Apply pre-bloom to support cell wall strength, pollination, and fruit set for quality potential. Apply postharvest to help recharge buds and set the stage for a strong return bloom.

## NUTRITION



### KDL 0-0-24

**K<sub>2</sub>O** 24%

KDL® is a foliar macronutrient designed to quickly penetrate plant tissue and provide easily metabolized and mobilized potassium. KDL is derived from potassium carbonate and *Ascophyllum nodosum*.



### Potassium Finishing Solution

**K<sub>2</sub>O** 24% **P<sub>2</sub>O<sub>5</sub>** 1%

Potassium Finishing Solution is a foliar macronutrient fertilizer designed to quickly penetrate plant tissue and provide easily metabolized and mobilized potassium. Potassium Dextro-Lac® is derived from potassium carbonate.



### Vigor-Cal

**Ca** 5%

Vigor-Cal is designed to effectively promote plant vigor and provide a key element in maximizing fruit quality. It focuses on increasing cell wall thickness and durability, which leads to improved fruit firmness and storage life. It is particularly effective during the early season, from bloom through early fruit development, when calcium is most easily incorporated into cell walls.

#### ALSO AVAILABLE IN

- Vigor-Cal with Boron



### Vigor-Cal-Bor-Moly

**Ca** 5% **B** 0.4% **Mo** 0.2%

Vigor-Cal-Bor-Moly is designed to effectively promote plant vigor and provide key elements in maximizing fruit quality. Combining boron and molybdenum with the calcium make it an excellent fit for prebloom sprays to improve fruit set and quality.



## Vigor-LeafMax

**Zn** 2.25% **Mn** 1% **S** 1% **Fe** 0.75% **Cu** 0.5% **Mg** 0.5% **Mo** 0.1% **Co** 0.01%

Vigor-LeafMax™ is a balanced blend of complexed micronutrients crucial for regulating a wide range of metabolic processes in plants.



## Vigor-SeaCal 0-0-0.15

**Ca** 5% **K<sub>2</sub>O** 0.15%

Vigor-SeaCal is a foliar nutrient combining Vigor-Cal and Symspray® into one convenient package designed to improve fruit quality, yield, and profitability.



**Zinc +5 D.L.** **Zn** 4% **Mn** 2% **Fe** 1% **Cu** 0.5% **Mg** 0.5% **Mo** 0.2%

Zinc +5 D.L.® utilizes the Dextro-Lac® manufacturing process to create a carbohydrate-based micronutrient package that can quickly penetrate plant tissue and be easily metabolized.



## Agrobrest Series

Agrobrest® is a series of liquid fertilizers specifically designed for foliar applications, where product purity is considered critical. Agrobrest liquid plant food delivers a 100% ortho-phosphate formulation and soluble potash derived from food-grade sources. This results in products of unparalleled purity and quality, characterized by a low salt index.

### PRODUCTS

- Agrobrest 0-20-20
- Agrobrest 3-18-18
- Agrobrest 9-24-3
- Vigor 15-5-1

## NUTRITION



### Clean



CLEAN branded nutrient products are specifically formulated for organic crop producers. Products adhere to USDA National Organic Standards and are certified by the OMRI, California OIM program, and WSDA.

#### PRODUCTS

- Clean BioMax
- Clean Boron
- Clean Calcium
- Clean Cal-Boron
- Clean Cal-Bor-Moly
- Clean Cobalt
- Clean Copper
- Clean Iron
- Clean Magnesium
- Clean Manganese
- Clean Micro-Mix
- Clean Molybdenum
- Clean Potassium 0-0-6
- Clean SeaCal 0-0-0.15
- Clean Symspray 0-0-1
- Clean Top-Set
- Clean Zinc



### System Series

System® series phosphite-based foliar nutrients are designed to enhance crop quality and overall plant health. Nutrients complexed to a phosphite ion are highly systemic, allowing them to travel rapidly throughout the plant.

#### PRODUCTS

- System-Mg
- System-Mn
- System-Zn
- System-Zmag



### System-Advance 5-19-0

**N** 5% **Zn** 4% **Mn** 2% **S** 1.25% **B** 0.1% **Mo** 0.01%

System-Advance® is a foliar fertilizer combining nitrogen, sulfur, zinc, manganese, boron and molybdenum in a phosphite formulation. System-Advance is a versatile foliar fertilizer designed to enhance nutrient uptake and mobility in a variety of row crops. Formulated to be compatible with glyphosate and most fungicides makes it easy to integrate into spray programs without additional trips.



### System-Cal 0-14-0

Ca 4% Cu 0.25%

System®-Cal is a calcium and copper foliar fertilizer designed to improve fruit quality, firmness, and shelf life. Calcium is a key component of cell wall development and essential to improving overall fruit integrity. System-Cal is intended to supplement standard ground fertility programs and enhance crop quality and yield.



### System-K

K 20%

System®-K is a foliar fertilizer derived from potassium phosphite making it highly systemic. It enhances nutrient uptake and mobility throughout the plant. This rapid delivery is beneficial for meeting peak nutrient demand timing and is well-suited for addressing potassium deficiency issues during the season.



### System-LeafMax

Zn 3% S 2% Mn 1.25% Fe 0.75%  
Mg 0.5% Cu 0.5% Mo 0.15% Co 0.005%

System®-LeafMax is a foliar fertilizer combining zinc and manganese in a phosphite formulation with sulfur, magnesium, cobalt, copper, and iron in dextrose/lactose form plus molybdenum. LeafMax is a complete chlorophyll producing nutrient package.



### System-Ready

Zn 4.25% Mn 2.75%

System-Ready® is designed for early season use in a wide variety of row crops. It delivers zinc and manganese where they are most needed, including developing roots and foliage. This is especially beneficial when spring soils are cold and wet, limiting nutrient availability and hindering root growth. It is compatible with glyphosate and most other pesticides, making it easy to integrate into spray programs.

## NUTRITION



### System-SeaCal

Ca 4% K<sub>2</sub>O 0.15%

System®-SeaCal combines System-Cal phosphite based fertilizer with Symspray®, a natural biological nutritional additive derived from *Ascophyllum nodosum*. System-SeaCal is intended for foliar use on various crops, including fruits, vegetables, and forage crops.



### Nutra-Sulf

S 7.25%

Nutra-Sulf is a specialized sulfur-based nutrient solution designed to prevent or correct sulfur deficiencies in crops. Formulated from sulfone sulfur, it is a neutral, low salt, biologically active soft sulfur source which has high compatibility with most other agricultural products.



### Photo-Op

Fe 2% S 1.4% K<sub>2</sub>O 1% Mn 0.25% Co 0.015%

Photo-Op is a liquid chelated iron micronutrient blend for use as a soil-applied and/or starter fertilizer. It is specifically designed to maximize iron availability in the soil rhizosphere to address nutrient deficiencies in crops.



### Seabest 0-19-19

P<sub>2</sub>O<sub>5</sub> 19% K<sub>2</sub>O 19%

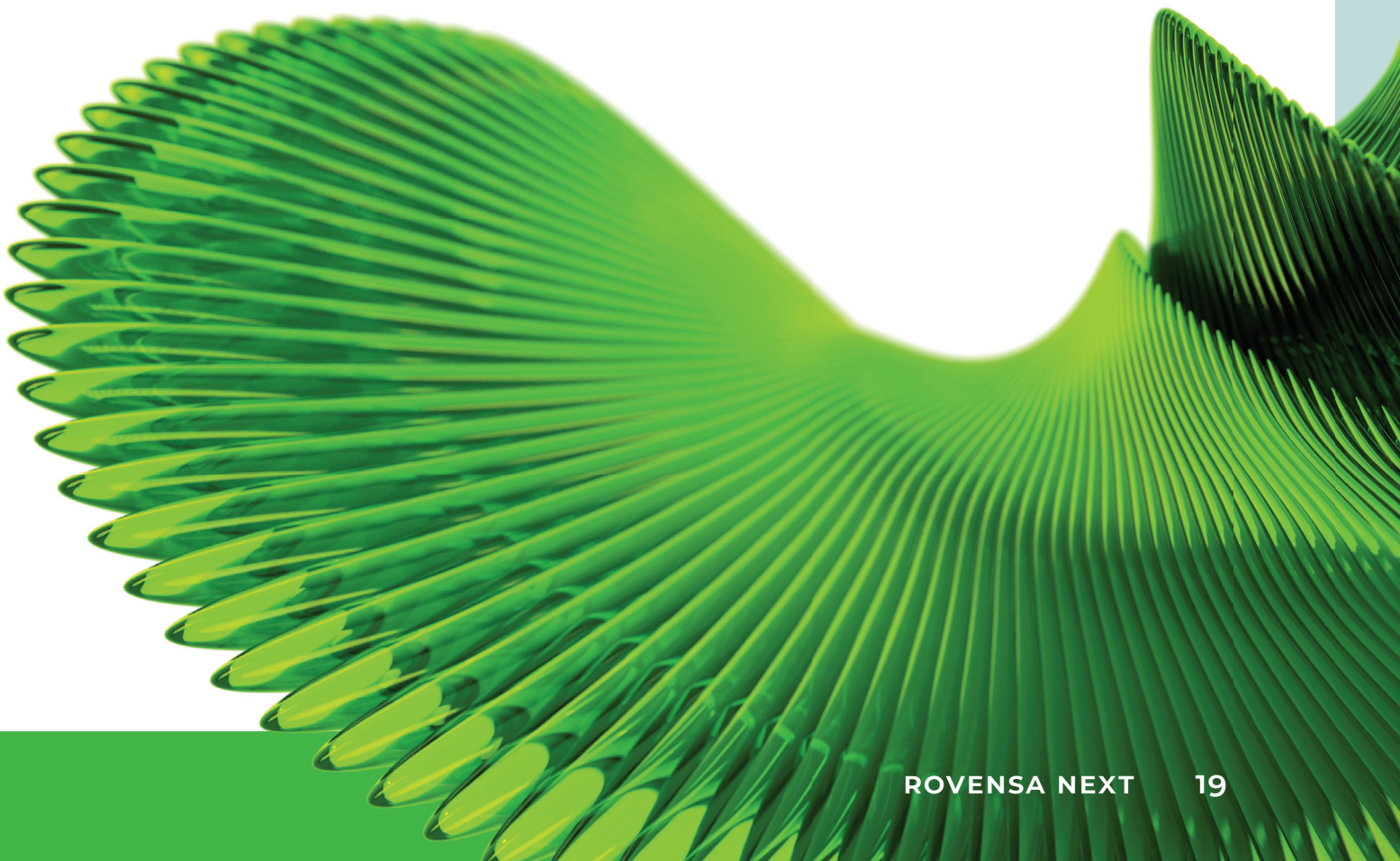
Seabest is derived only from food grade sources of phosphorous and potassium for unparalleled purity and quality with a low salt index. The formulation includes foliar seaweed, *Ascophyllum nodosum*, optimized to enhance physiological stages such as flowering, fruit set, and fruit retention.



## IGNEOUS

S 13% N 6% Mn 1% Zn 1%

IGNEOUS® is a highly effective, neutralized sulfur fertilizer with chelated micronutrients for maximum nutrient uptake and superior crop health. Unlike conventional sulfur products, IGNEOUS is clear and easy to handle, making it a reliable and effective tank mix partner with crop protection products.





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