

2024 PRODUCT GUIDE



RZTPRODUCTS.COM



Red Zone Technologies (RZT) was built for farmers looking for genuine value. A full line of adjuvants and biotechnology products designed to improve every application of plant protection products and plant nutrition with technology that adds value instead of just cost.

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NUTRITION

Product Name	Analysis	Product Benefits	Plant and Soil Benefits	Rate	lb/gal
12% Humic Acids	12% Humic Acids from Leonardite	<ul style="list-style-type: none"> · Concentrated humic acids 	<ul style="list-style-type: none"> · Increase nutrient uptake · Increase water retention · Improves soil structure 	Foliar: 1-3 qt/A Soil: 1-12 qt/A	8.7
6% Humic Acids CA	6% Humic Acids from Leonardite	<ul style="list-style-type: none"> · Concentrated humic acids 	<ul style="list-style-type: none"> · Increase nutrient uptake · Increase water retention · Improves soil structure 	Foliar: 1-3 qt/A Soil: 1-12 qt/A	8.7
7% Zinc LS	3% Sulfur, 7% Zinc	<ul style="list-style-type: none"> · Complexed with lignosulfonate · Water soluble 	<ul style="list-style-type: none"> · Critical activator of many enzyme systems · Essential in the formation of auxins that help with plant growth 	Soil: 2-4 qt/A	10.4
9% Zinc EDTA	9% Zinc EDTA	<ul style="list-style-type: none"> · Fully EDTA chelated zinc 	<ul style="list-style-type: none"> · Excellent tank mix compatibility · Maximum plant availability in soil 	1 pt-2 qt/A	10.9
All Day N™	<i>Paenibacillus azotofixans</i>	<ul style="list-style-type: none"> · Low use rate · Compatible with most fertilizers · Survives in a wide range of environments 	<ul style="list-style-type: none"> · Converts atmospheric N to ammonia · Supplies supplemental N season long 	1-2 pt/A	8.37
Decoder™	<i>Rhodopseudomonas palustris</i> <i>Bacillus brevis</i> <i>Bacillus licheniformis</i> <i>Streptomyces griseus</i> <i>Bacillus megaterium</i> <i>Rhodococcus rhodochromus</i> <i>Lactobacillus plantarum</i>	<ul style="list-style-type: none"> · Seven pure strains of plant growth promoting rhizobacteria selected for nutrient solubilizing ability and hardiness · Compatible with all starter fertilizers for in-furrow and 2x2 applications 	<ul style="list-style-type: none"> · Maximizes root growth and nutrient availability in the rhizosphere, especially phosphorus · Improves abiotic stress tolerance · 90% win rate in over 60 replicated field trials on corn, soybeans, wheat, cotton, and specialty crops 	1 pt-2 qt/A	8.37
Decoder™ Advanced	5-0-0-5S 7 strains of PGPR with Humic Acids	<ul style="list-style-type: none"> · Specially formulated plant growth promoting rhizobacteria for dry fertilizer impregnation · Increases available phosphorus and nitrogen 	<ul style="list-style-type: none"> · Powerful PGPR consortium increases root growth and yield potential · Solubilizes phosphorus and key plant nutrients in soil through enzyme production within the rhizosphere 	1-3 qt/ton	9.3
Expand-K	0-0-14 Zn, Mn, Fulvic Acid	<ul style="list-style-type: none"> · Multi-application options of in-furrow with polyphosphate or as a foliar to add potassium, zinc, and manganese with efficient delivery 	<ul style="list-style-type: none"> · Soluble potassium for increased stalk strength; fully chelated micronutrients 	In-furrow: 2-8 qt/A Foliar: 2-4 qt/A	10.42
Fulvic Acid	3% Fulvic Acid	<ul style="list-style-type: none"> · Powerful, concentrated fulvic acid increases nutrient fluency in-furrow, with liquid fertilizers, or as a foliar 	<ul style="list-style-type: none"> · Improves nutrient efficiency and uptake · Enhance root production · Keeps P available longer 	Foliar or Soil: 1-2 pt	8.4
Greenfill Start™	30-0-0	<ul style="list-style-type: none"> · Safe foliar nitrogen source with excellent humectancy · Apply to any crop when a nitrogen boost is needed in-season with herbicide or fungicide 	<ul style="list-style-type: none"> · Industry-leading compatibility and safe polymer nitrogen for rapid uptake · Foliar nitrogen increases amino acid production for higher protein and resistance to abiotic stress 	1-3 gal/A	10.5

Product Name	Analysis	Product Benefits	Plant and Soil Benefits	Rate	lb/gal
Greenfill Finish™	10-8-8-1S B, Cu, Mn, Zn	<ul style="list-style-type: none"> · Safe foliar nitrogen source with excellent humectancy · Unique formulation of NPKS and micronutrients for a complete foliar package 	<ul style="list-style-type: none"> · Industry-leading compatibility and safe polymer nitrogen for rapid uptake · Unique 10-8-8 formulation with micros addresses all major yield limiting nutrients and mitigates abiotic stress · Low use rate 	1 qt-1 gal/A	11.05
Granular Humic	0-0-10 95% Humic Acid Extracted from leonardite	<ul style="list-style-type: none"> · Patented process creates the first extracted humic acid granule for dry blends with urea, phosphate, or KCl · Lower dust and easier handling 	<ul style="list-style-type: none"> · Increases nutrient retention and soil structure · Enhances root growth and architecture in the rhizosphere 	1-10 lb/A	N/A
Inflate K™	0-0-24	<ul style="list-style-type: none"> · Incredibly soluble, available potassium for foliar, soil, drip, fertigation, and in-furrow applications 	<ul style="list-style-type: none"> · Potassium builds stalk strength and protein content, increasing yield potential · Potassium drives fruit and yield quality, improving size, shape, and storability 	In-furrow: 2-6 qt/A Row Crop: 1-8 qt/A Specialty: 1-3 gal/A Fertigation: 1-3 gal/A	10.65
Micro Mix	B, Cu, Fe, Mn, Mo, Zn	<ul style="list-style-type: none"> · 100% chelated nutrients (except B and Mo) · Compatible with other liquid fertilizers 	<ul style="list-style-type: none"> · Chelated for enhanced root absorption · Improves plant growth · Proper balance of essential micronutrients 	1-2 pt/A	10.45
N-STALL™	NBPT	<ul style="list-style-type: none"> · Treat UAN and urea 	<ul style="list-style-type: none"> · Slows NH₃ volatilization 	1.5 qt UAN/ton 3 qt Urea/ton	9.51
N-STALL™ Triple	Dicyandiamide (DCD) + NBPT	<ul style="list-style-type: none"> · For UAN and urea · Slows down ammonia volatilization and denitrification · Complete nitrogen protection 	<ul style="list-style-type: none"> · Proven to save nitrogen from loss on the soil surface, nitrification, and denitrification decreasing both volatilization and leaching nitrogen losses · Increases yield potential by protecting nitrogen availability 	2-6 qt UAN/ton 2-3 qt Urea/ton	9.2
Starting Fluid™	6-24-6 Zinc	<ul style="list-style-type: none"> · High orthophosphate · Low salt 	<ul style="list-style-type: none"> · High orthophosphate for immediate availability, especially in cool soils · Low salt formulation for seed safety · Non-corrosive, easy handling 	Application specific	11.3
Starting Fluid™ Advanced	6-21-5 Zn and Fulvic Acid	<ul style="list-style-type: none"> · Fully loaded starter fertilizer with zinc and fulvic acid 	<ul style="list-style-type: none"> · High orthophosphate for immediate availability, especially in cool soils · Low salt formulation for seed safety · Improves nutrient efficiency and uptake 	Application specific	11.07
SEA-Z-N™	5-0-0 Zn, Kelp	<ul style="list-style-type: none"> · Contains organic acid for added performance and compatibility in tank mixes 	<ul style="list-style-type: none"> · Increase yield potential while reducing abiotic stress · Improve photosynthesis by increasing chlorophyll production 	Application specific	8.88



6% Humic Acids CA

Give Your Crops a Boost with This Concentrate Solution

6% Humic Acids CA is for organic production and may be applied to most crops. This concentrate solution is readily dispersed in most fertilizer products but should be avoided with acids and oxidizers. **6% Humic Acids CA** is a weak alkaline solution and may change the pH of certain solutions. You can use a weak acid to reduce the pH of this spray solution. **6% Humic Acids CA** may be applied with several types of irrigation water systems.

Foliar applications:

1-3 QT/AC

Soil applications:

1-4 QT/AC

FEATURES AND BENEFITS

- ✓ May be applied to most crops
- ✓ May be used for organic production
- ✓ Readily dispersed in most fertilizer products
- ✓ May be applied with irrigation water systems

Guaranteed Analysis:

6.00% Humic Acids from Leonardite
94.00% Inert Ingredients

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12% Humic Acids

**Give Your Crops a Boost with
This Concentrate Solution**

12% Humic Acids is for organic production and may be applied to most crops. This concentrate solution is readily dispersed in most fertilizer products but should be avoided with acids and oxidizers. **12% Humic Acids** is a weak alkaline solution and may change the pH of certain solutions. You can use a weak acid to reduce the pH of this spray solution. **12% Humic Acids** may be applied with several types of irrigation water systems.

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Foliar applications:

1-3 QT/AC

Soil applications:

1-4 QT/AC

FEATURES AND BENEFITS

- ✓ May be applied to most crops
- ✓ May be used for organic production
- ✓ Readily dispersed in most fertilizer products
- ✓ May be applied with irrigation water systems

Guaranteed Analysis:

12.00% Humic Acids from Leonardite

88.00% Inert Ingredients

» RZTProducts.com



7% Zinc LS

Obtain a Rapid Response to Needed Elements When Crops Need Them Most.

7% Zinc LS is formulated primarily for foliar applications to prevent or correct zinc deficiencies in a wide range of agronomic and ornamental plants. Its use is suggested as a supplement to a regular, balanced fertilizer program to enhance yields and improve quality. Application of **7% Zinc LS** is a means of obtaining a quick response to needed elements. Foliar applications of **7% Zinc LS** may be particularly beneficial during periods of peak nutrient demand for crops grown on soils having poor nutrient availability or to crops suffering from a weakened root system.

Foliar applications:

1-4 QT/AC

Soil applications:

2-4 QT/AC

Irrigation system applications:

0.5-1.5 GAL/AC

FEATURES AND BENEFITS

- ✓ Fast plant response
- ✓ Quick foliar absorption
- ✓ Water soluble, cost effective source of zinc

Guaranteed Analysis:

3.00% Sulfur (S)
7.00% Zinc (Zn)

DERIVED FROM: Zinc Sulfate complexed with Lignosulfonate

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9% Zinc EDTA

Prevent and Correct Zinc Deficiencies for Optimum Plant Growth and Yield.

Formulated to correct zinc deficiencies, **Zinc 9% EDTA** may be used in a variety of agronomic and ornamental plants to enhance plant growth, yield and quality. This specialty fertilizer may be applied as a foliar spray, soil injection or injection into a closed irrigation system and has a lower use rate than non-chelated micronutrient sources. **Zinc 9% EDTA** is also formulated for greater compatibility with blend and tank mixes.

Deciduous fruits and nuts: 1-2 QT/AC

Field and row crops: 0.5-1 QT/AC

Vegetable crops: 1-3 QT/AC

FEATURES AND BENEFITS

- ✓ Resists soil tie up
- ✓ Will not precipitate with phosphate fertilizers
- ✓ 100% plant available; will move in soil solution
- ✓ Lower use rate than non-chelated micronutrient sources

Guaranteed Analysis:

7.00% Total Nitrogen (N)
 3.50% Ammoniacal N
 3.50% Other Water Soluble N
 9.00% Chelated Zinc (Zn)

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All Day N™

**Supplemental Supply of N All Day Long
Throughout the Growing Season.**

All Day N™ is a biological product that takes your crops to the next level through enhanced nitrogen fixation, improved mineralization, optimized nutrient uptake, and increased yield potential. As a supplement to synthetic nitrogen, **All Day N** provides a steady supply of N throughout the growing season, which gives growers peace of mind. In addition, **All Day N** is highly adaptable and can thrive in a variety of soils and climates.

In-furrow or 2x2:

1 PT/AC

Broadcast or fertigation:

1-2 PT/AC

Foliar applications:

1-2 PT/AC

FEATURES AND BENEFITS

- ✓ Exceptional flexibility that can be applied along with your fertilizer program.
- ✓ Premier compatibility - mixes well with most fertilizers and chemistries.
- ✓ No special application equipment is needed. It can be soil applied, in-furrow, 2x2, foliar, or side-dressed.
- ✓ Fixes nitrogen from the air into a plant available form. For corn, cereal grains, cotton, potatoes, and soybeans.

Contains Non-Plant Food Ingredients:

Paenibacillus azotofixans.....5.5 x 10⁸ CFU/ml

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» RZTProducts.com



Decoder™

Release the Power of Seven Strains of Beneficial Bacteria to Maximize Yield and Grower ROI.

Decoder™ is a liquid biological soil amendment optimized for conventional and organic production. As a biological catalyst, **Decoder** improves your plant's root architecture and is compatible with most dry and liquid fertilizer blends. **Decoder** also increases nutrient availability and assists with nutrient mineralization. Unlock the nutrient code to maximize your crops potential with **Decoder!**

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Starter or sidedress:

1-4 PT/AC

Broadcast or fertigation:

1-2 QT/AC

Manure applications:

1-2 QT/AC

FEATURES AND BENEFITS

- ✓ 91% positive response rate across all tested crops
- ✓ Increases nutrient availability and root growth
- ✓ Improves plant's resistance to stress
- ✓ Compatible with most fertilizer blends

Guaranteed Analysis:

Contains 60 million colony-forming units (CFU) per gallon of the following:

Rhodopseudomonas palustris
Bacillus brevis
Bacillus licheniformis
Streptomyces griseus
Bacillus megaterium
Rhodococcus rhodochrous
Lactobacillus plantarum

» RZTProducts.com



Decoder™ Advanced

Release the Power of Dry Fertilizer by Increasing Nutrient Efficiency.

Maximize your fertilizer application by releasing the power of **Decoder™ Advanced**—a powerful consortium of Plant Growth Promoting Rhizobacterial (PGPR) designed to increase nutrient efficiency and yield potential. **Decoder Advanced** is a specially formulated, eco-friendly liquid biological soil amendment containing seven strains of beneficial soil bacteria and high-quality liquid humic acid to promote soil health and plant vigor, stimulate root growth, and improve nutrient uptake.

» RZTProducts.com

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Recommended for all tree, vine, field, row, and vegetable crops.

Dry fertilizer impregnation: **0.5-2 QT/TON**

Starter or sidedress: **0.5-1 QT/AC**

Broadcast: **1-4 QT/AC***

Manure applications: **1-4 QT/AC****

* (1-4 qt/ 3,000-3,500 gal of liquid manure)
** in enough solution to provide coverage

FEATURES AND BENEFITS

- ✓ Protect your fertilizer investment
- ✓ Release phosphate, nitrogen, and other nutrients in soil
- ✓ Promote root growth
- ✓ Low use rate and easy handling
- ✓ Proprietary blend of 7 strains of bacteria and highly refined humic acid

Guaranteed Analysis:

5.00% Total Nitrogen (N) | 5.00% Sulfur (S)

DERIVED FROM: Ammonium Sulfate.

1.40% Humic Acid derived from Leonardite.

Contains 60 million colony forming units (CFU) per gallon of the following:

Rhodopseudomonas palustris ... 2.26 x 10³ CFU/ml

Bacillus brevis ... 2.26 x 10³ CFU/ml

Bacillus licheniformis ... 2.26 x 10³ CFU/ml

Streptomyces griseus ... 2.26 x 10³ CFU/ml

Bacillus megaterium ... 2.26 x 10³ CFU/ml

Rhodococcus rhodochrous ... 2.26 x 10³ CFU/ml

Lactobacillus plantarum ... 2.26 x 10³ CFU/ml



Expand-K

Promote Nutrient Efficiency In-Furrow and as a Foliar With Potassium and the Right Mix of Micronutrients.

Expand-K harnesses soluble, available potassium and the right mix of micronutrients, including manganese (0.30%) and zinc (1.90%), which are key for plant growth. **Expand-K** helps prevent these micronutrients from being tied up in the soil, allowing for a faster start and higher yield potential for your crops. **Expand-K** also reduces phosphorus tie-up, increases nutrient availability and enhances nutrient uptake as a foliar spray.

At-planting, pre-plant or early in-season:

2-6 QT/AC

Early/late foliar with crop protection products:

1-6 QT/AC

FEATURES AND BENEFITS

- ✓ Regulates plant absorption of water & nutrients
- ✓ Strengthens stress tolerance of the plant
- ✓ Adds stalk-building nutrients to a foliar spray
- ✓ Increases yield potential through higher photosynthesis rate

Guaranteed Analysis:

14.00% Soluble Potash (K₂O)
0.30% Chelated Manganese (Mn)
1.90% Chelated Zinc (Zn)

DERIVED FROM: Potassium Acetate, Manganese EDTA, and Zinc EDTA.

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Fulvic Acid

Increase Fertilizer Efficiency with a Pure Fulvic Concentrate Approved for Organic Production

Fulvic Acid is a pure concentrate for organic production. Made from unique organic acids, **Fulvic Acid** is isolated from pure leonardite ore, which is high in organic matter. As a result of its double extraction process, **Fulvic Acid** is concentrated into a clear, bioactive fulvic acid liquid and increases nutrient use efficiency.

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In-furrow with low-salt, high-ortho fertilizers:

1-2 PT/AC

With foliar applications:

0.5-1 PT/AC

FEATURES AND BENEFITS

- ✓ Low use rate of 1-2 pints per acre
- ✓ For in-furrow, banded, 2x2, and foliar applications
- ✓ Does not turn fertilizer black
- ✓ Improves emergence and early-season root growth

Active Ingredient:

3.00% Fulvic Acid

Inactive Ingredients:

97.00% / 100.00% Carboxylic Acid and Water

» RZTProducts.com



®

Granular Humic

Help Your Fertilizer Blend and Soil Work Better Together

Granular Humic is a highly soluble, extracted humic acid that provides premier growing power. Humic acids are organic compounds that boost plant productivity by improving the quality of the soil. **Granular Humic** is a compacted granule extracted from pure leonardite ore. It makes dry fertilizer blends and soil work better together for increased nutrient efficiency and optimal yields.

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Soil applications:

1-20 LB/AC

Seeding applications:

1-5 LB/AC

FEATURES AND BENEFITS

- ✓ Boosts nutrient uptake and absorption
- ✓ Enhances early growth
- ✓ Provides opportunity for extra yield
- ✓ Improves soil structure and productivity

Guaranteed Analysis: 0-0-10

10.00% Soluble Potash (K₂O)

DERIVED FROM: Sub-Bituminous Coals and Potassium Hydroxide.

ALSO CONTAINS NON-PLANT FOOD INGREDIENT:

95.00% Humic Acids (derived from Sub-Bituminous Coals)

» RZTProducts.com



Greenfill Start™

**Start Demanding More
From Your Nitrogen.**

Formulated for increased nitrogen absorption, **Greenfill Start™** helps your plants take off with a great start, delivering nutrients they crave at critical times in-season. **Greenfill Start** is a polymer-based combination of methylene triazone urea designed for foliar application. This unique polymer technology promotes moisture retention for a safer, more efficient source of foliar nutrition.

Row and field crops: **1-3 GAL/AC**

Vegetable crops: **1-3 GAL/AC**

Tree and vine crops: **1-5 GAL/AC**

FEATURES AND BENEFITS

- ✓ Foliar safe nitrogen source
- ✓ Increased stress tolerance
- ✓ Industry-leading tank mix compatibility
- ✓ Excellent humectancy

Guaranteed Analysis:

30.00% Total Nitrogen (N)
12.00% Urea Nitrogen
18.00% Water Soluble Nitrogen*

Derived from: Triazone, Methylene Urea, and Urea.

*18.00% Slowly available nitrogen from triazone and methylene urea.
Contains 3.15 pounds of nitrogen per gallon.

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Greenfill Finish™

Get Your Fill of Green with Yield Increases on Cotton, Corn, and Soybeans.

Greenfill Finish™ helps you finish strong with consistent yield increases on cotton, corn, and soybeans. **Greenfill Finish** addresses major limitations on yield and mitigates abiotic stress through its unique micronutrient formulation. Using polymer technology, **Greenfill Finish** helps retain moisture, providing a more efficient source of foliar nitrogen. **Greenfill Finish** is also an effective carrier for many herbicides and fungicides.

Row crops:

1-4 QT/AC

Cereal grains:

1-2 QT/AC

FEATURES AND BENEFITS

- ✓ Yield increases on cotton, corn, and soybeans
- ✓ Extends availability of nitrogen for longer uptake
- ✓ Compatible with foliar herbicides and fungicide sprays
- ✓ Low use rate

Guaranteed Analysis: 10-8-8

10.00% Total Nitrogen (N)
 8.00% Available Phosphate (P₂O₅)
 8.00% Soluble Potash (K₂O)
 1.00% Sulfur (S)
 0.25 Boron (B)
 0.06 Chelated Copper (Cu)
 0.25% Chelated Manganese (Mn)
 0.25% Chelated Zinc (Zn)

Derived from: Monopotassium Phosphate, Potassium Sulfate, Urea, Triazone, Methylene Urea, Boric Acid, Copper EDTA, Copper IDS, Manganese EDTA, Manganese IDS, Zinc EDTA, and Zinc IDS.

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INFLATE K™

Readily Available Potassium to Meet Your Yield Goals

INFLATE K™ is a liquid fertilizer derived from a unique form of potassium with superior foliar absorption and plant availability over traditional forms of potassium. Formulated to prevent or correct potassium deficiencies, **INFLATE K** may be used in a wide range of agronomic and ornamental plants to enhance yield and quality. Its use is suggested as a supplement to a regular, balanced fertilizer program and can be foliar or soil applied.

Guaranteed Analysis:

24.00% Soluble Potash (K₂O)

DERIVED FROM: Potassium Acetate.

In-furrow:		2-6 QT/AC
	Row Crops	2-8 QT/AC
Foliar:	Specialty Crops	1-3 GAL/AC
Fertigation:		1-3 GAL/AC

FEATURES AND BENEFITS

- ✓ Superior source of 24% K₂O liquid
- ✓ Formulated with pure potassium acetate, a carbon-based source for greater solubility and low salt index for soil and foliar applications with most fertilizers and tank mix chemistries
- ✓ Potassium is the plant mobilizer, translocating nutrients, increasing stalk strength and standability, and activating photosynthesis and enzyme systems
- ✓ Potassium drives fruit and yield quality, improving size, shape, and storability

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Micro Mix

**Start Crops Off Strong and Address
Micronutrient Deficiencies**

Micro Mix is primarily formulated for in-furrow, foliar, or soil applications to prevent or correct micronutrient deficiencies in a wide range of plants. **Micro Mix** will resist tie-up in the soil and is compatible with most fertilizers.

In-furrow, foliar, fertigation: **1-2 PT/AC**

FEATURES AND BENEFITS

- ✓ Chelated micronutrients that help resist tie up in soil
- ✓ Compatible with most fertilizers
- ✓ Contains key micronutrients to get your plants off to a healthy start
- ✓ Multiple application methods

Guaranteed Analysis:

0.25% Boron (B)
0.10% Copper (Cu)
0.10% Iron (Fe)
3.00% Manganese (Mn)
0.00005% Molybdenum (Mo)
3.00% Zinc (Zn)

DERIVED FROM: Boric Acid, Copper EDTA, Iron EDTA, Manganese EDTA, Sodium Molybdate, Zinc EDTA

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N-STALL™

Protect Your Nitrogen Investment

N-STALL™ nitrogen stabilizer is a liquid formulation urease inhibitor that protects against ammonia volatilization and can be blended with urea or UAN. This innovative liquid formulation has excellent cold weather handling properties. It also allows for a lower application rate, which prevents buildup and enables growers to treat more quickly and store less product.

Urea:

3 QT/TON

UAN:

1.5 QT/TON

FEATURES AND BENEFITS

- ✓ Ammonia volatilization protection
- ✓ Protection well past 14 days
- ✓ Proven performance and ROI with flexible timing
- ✓ Designed for surface applied, broadcast, and shallow-incorporated urea and UAN nitrogen

Guaranteed Analysis:

CONTAINS NON-PLANT FOOD INGREDIENTS:

26.70% N-(n-butyl)-thiophosphoric triamide (NBPT)(CAS RN 94317-64-3)

INACTIVE INGREDIENTS: 73.30% N-methyl-2-pyrrolidone (CAS RN 872-50-4),1,2-propanediol (CAS RN 57-55-6)

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N-STALL™ TRIPLE

Triple Protection of Your Nitrogen Investment

Above and below ground stabilization protection in one easy-to-use liquid formation. **N-STALL™ TRIPLE** contains NBPT and DCD to protect nitrogen losses from volatilization, leaching, and denitrification.

Urea:

3-4 QT/TON

UAN:

3-6 QT/TON

FEATURES AND BENEFITS

- ✓ Protects nitrogen from both above ground and below ground losses
- ✓ Powerful multi-benefit nitrogen stabilizer in one easy-to-use liquid formulation
- ✓ Contains NBPT and DCD to protect nitrogen losses from volatilization, leaching, and denitrification
- ✓ Get more nitrogen in your crop and less escaped into the environment

Guaranteed Analysis:

CONTAINS NON-PLANT FOOD INGREDIENTS:

17.0% Dicyandiamide (DCD)

7.50% N-(n-butyl)-thiophosphoric triamide (NBPT) with blue colorant

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SEA-Z-N™

**The Hardiness Needed to
Endure the Toughest Seasons**

SEA-Z-N™ is a unique, concentrated seaweed extract with 0.35% EDTA zinc that has complete compatibility with most foliar nutritionals and pesticides. **SEA-Z-N** is designed to enhance foliar nutrient availability and uptake, driving growth and nutrients to key growing points. **SEA-Z-N** is formulated with *Ascophyllum nodosum*, harvested at precise intervals, and then extracted with organic acids. Unlike most plant extracts, **SEA-Z-N** is highly concentrated and an amber, clear color.

Foliar applications:

1-4 PT/AC

FEATURES AND BENEFITS

- ✓ Unmatched compatibility and performance
- ✓ Dual cold extraction of *Ascophyllum nodosum*
- ✓ Clear formulation
- ✓ Increases yield potential; reduces stress

Guaranteed Analysis: 5-0-0

5.00% Total Nitrogen (N)

1.30% Urea Nitrogen

3.70% Other Water Soluble Nitrogen*

0.35% Zinc (Zn)

0.35% Chelated Zinc (Zn)

DERIVED FROM: Urea, Triazone, Methylene Urea, and Zinc EDTA.

*3.70% Slowly available nitrogen from triazone and methylene urea.

ALSO CONTAINS NON-PLANT FOOD INGREDIENT:

25.00% Kelp (microbe food)

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Starting Fluid™

**Optimize Soil Conditions for Plant Growth,
Development, Yield, and Quality
From the Start.**

Starting Fluid™ is designed to prevent or correct nitrogen, phosphorus and potassium deficiencies in a wide range of agricultural and ornamental plants. **Starting Fluid** is a premium quality, low salt index product for foliar, starter or pop-up applications.

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Pop-up: **1-5 GAL/AC**

Starter: **1-8 GAL/AC**

Foliar*: **2-4 QT/AC** on row and field crops

2-8 QT/AC on tree or vine crops

*Apply with a minimum 5 gallons of water for every 2 qts

FEATURES AND BENEFITS

- ✓ High orthophosphate fertilizer designed for starter or pop-up applications
- ✓ Ultra-low salt index—safe for direct seed application and application to tender foliage
- ✓ Stimulates seedling root growth, emergence, and overall plant health
- ✓ Contains EDTA/IDS chelated micronutrients

Guaranteed Analysis:

6.00% Ammoniacal Nitrogen (N)
23.00% Available Phosphate (P₂O₅)
6.00% Soluble Potash (K₂O)
0.20% Chelated Zinc (Zn)

Derived From: Ammonium Polyphosphate, Monopotassium Phosphate, and Zinc EDTA.



Starting Fluid™ Advanced

Combat Nutrient Deficiencies From the Start

Starting Fluid™ Advanced is designed to prevent or correct nitrogen, phosphorus, and potassium deficiencies in a range of agricultural and ornamental plants. It combines zinc with concentrated fulvic acid and a premium quality, low-salt orthophosphate fertilizer. **Starting Fluid Advanced** should be part of a comprehensive nutrition program for optimizing plant growth, development, yield, and quality.

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Pop-up: **1-5 GAL/AC** on seed

Starter: **1-8 GAL/AC** as a band directly below the seed
5-20 GAL/AC below and to the side of seed line

Foliar*: **2-4 QT/AC** on row and field crops
2-8 QT/AC on tree or vine crops

*Apply with a minimum of 5 gallons of water for every 2 quarts

FEATURES AND BENEFITS

- ✓ High orthophosphate content for immediate availability, even in cold soils
- ✓ Ultra-low salt index—safe for direct seed application and application to tender foliage
- ✓ Contains fulvic acid, enhances chlorophyll synthesis, and improves nutrient absorption
- ✓ Stimulates seedling root growth, emergence and overall plant health

Guaranteed Analysis:

6.00% Ammoniacal Nitrogen (N)
21.00% Available Phosphate (P₂O₅)
5.00% Soluble Potash (K₂O)
0.65% Chelated Zinc (Zn)

Derived From: Ammonium Polyphosphate, Monopotassium Phosphate, and Zinc EDTA

CONTAINS NON-PLANT FOOD INGREDIENT:

0.10% Fulvic Acid derived from Leonardite



ADJUVANTS

Product Name	Analysis	Product Benefits	Plant and Soil Benefits	Rate
AquaFlux™	AMS-based water conditioner	<ul style="list-style-type: none"> Enhanced sequestering agent 	<ul style="list-style-type: none"> Low use rate Reduces pH Liquid formulation 	2 qt/100 gal
Cohesion™	Deposition Aid	<ul style="list-style-type: none"> Modified vegetable oil and nonionic surfactant 	<ul style="list-style-type: none"> Improves the residual activity of soil-applied herbicides Increases deposition onto the intended target Minimizes driftable fines Reduced rate versus competitors 	Soil Residual Activity 5-16 fl oz/A Drift Reduction Only 4 fl oz/A
Consume™	AMADS + Water Conditioners + NIS	<ul style="list-style-type: none"> AMADS/water conditioner blend plus a surfactant Designed to improve glyphosate performance Approved for use with most products in the Xtend® and Enlist®-traited crops 	<ul style="list-style-type: none"> Excellent crop safety Overcomes hard water antagonism Improves herbicide translocation Penetrates leaf surface faster 	2 qt/100 gal
Coverage®	MSO/NIS/DRA	<ul style="list-style-type: none"> Provides wetting and spreading Drift reduction Increased deposition 	<ul style="list-style-type: none"> Leaf canopy penetration Minimize off target drift Optimum spreading and improved coverage 	1-2 qt/100 gal
Crossguard®	Oil Based DRA	<ul style="list-style-type: none"> Drift reduction Deposition agent Oil-based 	<ul style="list-style-type: none"> Reduces driftable fines Uniform droplet size Delivers more active ingredient to target 	4 fl oz/A
Deliberate™	Liquid AMS + Surfactant + Polymer DRT	<ul style="list-style-type: none"> Convenient all-in-one water conditioner 	<ul style="list-style-type: none"> Prevents glyphosate tie-up Reduces surface tension Reduces driftable fines 	2-4 qt/100 gal
High Load® MSO	MSO/NIS	<ul style="list-style-type: none"> High load crop oil concentrate 	<ul style="list-style-type: none"> Satisfies oil and surfactant requirement 	4-32 oz/A
Kristol®	Surfactant plus a nitrogen source	<ul style="list-style-type: none"> Multi-functional Spreading Wetting Water Conditioning 	<ul style="list-style-type: none"> Additional ammonium ions for enhanced uptake Contains a high-quality surfactant for increased spreading 	1.5-3 pt/20 gal
Pentrol®	COC	<ul style="list-style-type: none"> Paraffinic oil 	<ul style="list-style-type: none"> Satisfies oil requirement 	1 gal/100 gal
Relentless™	Straight MSO	<ul style="list-style-type: none"> Low Cost MSO 	<ul style="list-style-type: none"> Penetration through waxy cuticle 	1-2 pt/A
Resilience®	100% MSO	<ul style="list-style-type: none"> 100% modified vegetable oil 	<ul style="list-style-type: none"> Penetrates waxy cuticle Consistent, stable emulsion 	1 gal/100 gal

Product Name	Analysis	Product Benefits	Plant and Soil Benefits	Rate
Sentinel™	Polymer DRA	<ul style="list-style-type: none"> · Low cost DRA · Low use rate 	<ul style="list-style-type: none"> · Reduced driftable fines · Deliver more spray on target 	1-2 qt/100 A
Spotless™	Spray System Cleaner	<ul style="list-style-type: none"> · Cleans out tank residue 	<ul style="list-style-type: none"> · Penetrates and removes dried on residues · Raises rinsate pH level to accelerate breakdown of crop protection products · Protects pumps/seals/plumbing with anti-corrosion inhibitor · Can be used in organic systems 	1 qt/50 gal
Stabilis™	Ethylated Seed Oil + Silicone Surfactant	<ul style="list-style-type: none"> · Use with insecticides/fungicides sprays · Ideal for sensitive crop applications 	<ul style="list-style-type: none"> · Penetrates dense crop canopies · Reduces phytotoxicity potential due to lower solvency · Translaminar activity provides control of pest on underside of the leaf 	4 fl oz/A
Strongside® Plus	90/10 NIS	<ul style="list-style-type: none"> · Premier nonionic surfactant · Increased performance over standard surfactants 	<ul style="list-style-type: none"> · Increases absorption, penetration, and translocation · 88% true surfactant · Low foaming technology 	1 qt/100 gal
Vincero® 80	80/20 NIS	<ul style="list-style-type: none"> · Low cost NIS 	<ul style="list-style-type: none"> · Consistent material providing good spreading and adhesion where enhanced coverage is needed 	1-2 qt/100 gal
Vincero® 90	NIS + Humectant	<ul style="list-style-type: none"> · Low foam NIS 	<ul style="list-style-type: none"> · Better leaf coverage and contact · Uniform droplets allow for more pesticide onto the surface · Enhances the pesticide application · Tank mix compatible with many pesticides 	8-64 oz/100 gal
ZoneCoverage™	Modified Vegetable Oil + Organosilicone Surfactant	Provides effective wetting and spreading of various pesticides	<ul style="list-style-type: none"> · Less phytotoxicity risk due to less solvency · Reduces plant surface tension for better absorption · Translaminar movement of certain AI through leaf tissue 	4 oz/A



AquaFlux™

**Water Conditioner That Consists
of a Reduced Amount of AMS**

AquaFlux™ is specially formulated to be used with many post emergence type herbicides, which perform best when mixed with ammonium sulfate. It will help to mitigate the antagonistic effects of hard water, allowing for your herbicide to work.

Use Rate:

2 QT/100

FEATURES AND BENEFITS

- ✓ Enhances sequestering to block mineral tie-up
- ✓ Reduces pH of spray solution to enhance uptake
- ✓ Low use rate
- ✓ AMS

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Cohesion™

Micro Emulsion Oil-Based Adjuvant Designed to Increase the Level of Residual Activity of Most Soil-Applied Herbicides

Cohesion™ utilizes proprietary technology and is designed for customers that want to optimize residual activity from their preplant/pre-emergent chemistry. **Cohesion** helps to increase spray deposits of the spray material, allowing for better coverage and adhesion to soil particles, resulting in enhanced control of early season weed pressures.

Soil Residual Activity: **5-16 FL OZ/AC**

Drift Reduction Only: **4 FL OZ/AC**

FEATURES AND BENEFITS

- ✓ Esterified Seed Oil
- ✓ Creates a more uniform droplet
- ✓ Formulation provides for compatibility
- ✓ Active ingredient adheres to tank mix partners
- ✓ Increased amount of spray material that reaches intended target
- ✓ Compatible with a wide range of tank mixes

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Consume™

A Water Conditioning Alternative to Ammonium Sulfate

Consume™ is a multifunctional adjuvant designed to aid in the effort of managing difficult to control weeds. **Consume** provides superior conditioning of the spray mix and buffers down the spray solution pH, which alleviates any antagonistic effects from hard water minerals. **Consume** has proprietary surfactant in its formulation, allowing for better wetting and spreading of spray material onto leaf surfaces. **Consume** helps enhance herbicidal activity on target species and is ideal for use with most post-herbicide tank mixes, including combinations of products like glyphosate and 2,4-D.

Use rate:

2 QT/100

FEATURES AND BENEFITS

- ✓ Water conditioning
- ✓ Nonionic surfactant
- ✓ AMADS/Water Conditioner Blend
- ✓ Minimizes antagonistic effects of hard water
- ✓ Uniform coverage onto plant surface
- ✓ Increased absorption of the active ingredients

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Coverage[®]

**Modified Vegetable Oil and Nonionic Surfactant
That Provides Wetting and Spreading
of the Spray Solution**

Use rate:

1-2 QT/100

FEATURES AND BENEFITS

- ✓ Combination of MVO and NIS
- ✓ Unique blend
- ✓ Drift Reduction Technology
- ✓ Excellent leaf canopy penetration
- ✓ Optimum spreading for improved coverage
- ✓ More uniform, consistent spray droplets

Coverage[®] is a proprietary blend of modified vegetable oil and nonionic surfactant that delivers enhanced performance of the tank-mix solution when added to various applications. **Coverage** helps optimize the spray material coverage across the leaf foliage and provides better penetration deeper into the leaf canopy due to its excellent spreading and deposition characteristics. With its advanced technology, **Coverage** will minimize the chance for off-target drift by managing the fines that come off the spray nozzle during the spray application.

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» RZTProducts.com



CrossGuard™

A Drift and Deposition Aid Designed to Improve Pesticide Applications

CrossGuard™ is intended for use in a typical spray application. **CrossGuard** reduces the number of driftable fines that may occur when pesticides are applied by ground or air. When used with proper spray equipment, this unique formulation helps manage the spray pattern, allowing for better coverage.

Use rate:

4 OZ/AC

FEATURES AND BENEFITS

- ✓ Reduced driftable fines mean more droplets in the ideal form
- ✓ Improves deposition and coverage
- ✓ Right size droplets for better coverage

CrossGuard is not for aquatic use. Always read and follow label instructions before use.

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Deliberate™

***Blend of Water Conditioner and Surfactant
Increasing Spreading Activity of the
Herbicide Across the Leaf Surface***

Use rate:

2-4 QT/100

FEATURES AND BENEFITS

- ✓ Blend of AMS plus surfactant
- ✓ Premium surfactant
- ✓ Enhanced sequestering to block mineral tie-up
- ✓ Provides increase coverage

Deliberate™ is specifically formulated for customers who desire the convenience of a multifunctional adjuvant that provides the water conditioning benefits of AMS and a nonionic surfactant that aids in the wetting and spreading of the spray material. It enhances herbicide performance by reducing mineral tie-up of various active ingredients in the spray tank while increasing the coverage across the leaf surface.

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High Load[®] MSO

A Modified Vegetable Oil/Surfactant Blend

High Load[®] MSO aids in penetration and spreading of the tank mix through the plant's waxy cuticle, increasing the effectiveness of many post-emergent herbicides. Because of its high load of oil, it can be used at a lower rate — ultimately, saving you money. This MSO allows for quicker absorption and uptake of the herbicide into the plant, including tough-to-control weeds, which means the plant dies quicker.

Use rate:

4-32 OZ/AC

FEATURES AND BENEFITS

- ✓ Better absorption into the plant for a more effective weed kill
- ✓ Improves penetration through the waxy cuticle
- ✓ Better coverage on the leaf surface
- ✓ Excellent crop tolerance
- ✓ Cost effective: half the use rate of other adjuvants

High Load MSO is currently approved for use with specific products containing dicamba that are labeled for use on crops containing auxin genetic traits. Always read and follow label instructions before use.

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Kristol®

An AMS-Based Water Conditioning Agent and Surfactant

Kristol® improves performance of various post-emergent herbicides where a nitrogen solution and surfactant are required. With its unique formulation, **Kristol** provides water conditioning and surfactant capabilities in one convenient product. This adjuvant replaces the need for 28% nitrogen solution and nonionic surfactants. When used at the recommended rates, **Kristol** can increase the performance of various herbicides that require combinations of the above additives.

Use rate:

2-6 QT/100

FEATURES AND BENEFITS

- ✓ Convenient liquid formulation
- ✓ Helps increase herbicide performance
- ✓ Enhanced sequestering to block mineral tie-up of glyphosate
- ✓ Reduces antagonism in the tank
- ✓ Contains 3.4 lbs of ammonium sulfate per gallon

Kristol is not for aquatic use. Always read and follow label instructions before use.

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Pentrol®

A Crop Oil Concentrate

Designed to combine the penetrating activity of a phytobland oil with the wetting and dispersing characteristics of a surfactant, **Pentrol®** increases the efficiency of certain herbicides in post-emergent applications. Its wetting characteristics allow the herbicide more time to absorb into the plant.

Use rate:

1-8 PT/AC

FEATURES AND BENEFITS

- ✓ Ensures better herbicide coverage
- ✓ Improves herbicide absorption into the plant
- ✓ Helps penetrate the waxy cuticle layer on the leaf
- ✓ Better, more thorough weed kill
- ✓ Recommended with a wide range of herbicides

Pentrol is not for aquatic use. Always read and follow label instructions before use.

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Relentless™

Modified Vegetable Oil/Surfactant Blend

Relentless™ is a modified vegetable oil-surfactant blend that provides better penetration of a pesticide active ingredient into the plant. It helps aid in the movement of the spray solution through a plant's waxy cuticle.

Use rate:

1-2 PT/AC

FEATURES AND BENEFITS

- ✓ Modified Vegetable Oil plus emulsifier
- ✓ Easy to use
- ✓ Breaks down waxy layer on leaf tissue
- ✓ Use in place of COC where label allows

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Resilience®

A 100% Modified Vegetable Oil

Resilience® aids the penetration of herbicides through a plant's waxy cuticle. It may be used in place of a crop oil concentrate in spray mixtures. When used as directed, **Resilience** maximizes the activity of certain herbicides.

Use rate:

1-2 PT/AC

FEATURES AND BENEFITS

- ✓ Enhances herbicide application
- ✓ Excellent wetting and penetration
- ✓ Use in place of crop oil concentrate
- ✓ Quicker breakdown of the plant's waxy layer
- ✓ Consistent, stable emulsion

Resilience is not for aquatic use. Always read and follow label instructions before use.

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Sentinel™

**Proven Technology That Includes
Polyvinyl Polymer (Polyacrylamide)**

Sentinel™ is an effective, easy-to-use drift reduction and deposition aid. **Sentinel** allows for more product to reach the intended target, reducing the number of driftable fines that are produced through the spray nozzle.

Use rate:

1-2 QT/100

FEATURES AND BENEFITS

- ✓ Polyacrylamide – Drift Control
- ✓ Deposition Aid
- ✓ More uniform droplets
- ✓ More droplets reach intended target
- ✓ Crop safety

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Spotless™

Power Through Tank Residues

Spotless™ is a powerful spray system cleaner which exceeds ordinary tank cleaners. **Spotless** is specifically designed to penetrate, degrade and emulsify hard-to-remove residues which can build up throughout the entire liquid system of a sprayer. Registered for use in agriculture, forestry, industrial, municipal, noncropland, and ornamental/turf applications.

Use rate: **1 QT/50 GAL CLEAN WATER**

FEATURES AND BENEFITS

- ✓ Penetrates and removes dried-on residues
- ✓ Emulsifies and solubilizes oily residue build-up
- ✓ Maximizes rinsate solution pH levels to accelerate the breakdown of vulnerable pesticides
- ✓ Protects equipment pumps, seals and plumbing with an anti-corrosion inhibitor

Principle Functioning Agents

Proprietary blend of alkalinity builders, emulsifiers, surfactants and formulation aids ... 100% BY WT

All ingredients are approved for use under 40 CFR 180.

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Stabilis™

**Premium Blend of MSO and Organosilicone,
That Provides Excellent Penetration
and Spreading on the
Plant Tissue**

Stabilis™ provides effective wetting and spreading of various pesticides. The oil in **Stabilis** aids penetration of the pesticide into the plant tissue, while the organosilicone element assists with quick spreading and wetting, uniform leaf coverage and better absorption.

Use rate:

4 FL OZ/AC

FEATURES AND BENEFITS

- ✓ MSO/OS blend
- ✓ Better penetration and spreading
- ✓ Reduces plant surface tension for better absorption

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StrongSide® Plus

Nonionic Surfactant That Will Improve the Activity and Efficacy of the Spray Application

StrongSide® Plus is designed for customer applications that require a nonionic surfactant to allow for quick wetting and uniform coverage of the spray material. It will help to improve the activity of the active ingredient on the target species by reducing surface tension and increasing penetration into the plant surface.

Use rate:

1 QT/100

FEATURES AND BENEFITS

- ✓ Reduces surface tension
- ✓ Nonionic surfactant
- ✓ Better coverage across the leaf surface
- ✓ Increased absorption into the plant tissue

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Vincero[®] 80

Nonionic Surfactant to Improve the Spreading and Wetting Effectiveness of Herbicides, Insecticides, Fungicides

Use rate:

1-2 QT/100

FEATURES AND BENEFITS

- ✓ Reduces surface tension
- ✓ Allows active ingredient to spread more uniformly
- ✓ Nonionic surfactant
- ✓ Increased spreading across leaf surface, better coverage

Vincero[®] 80 is designed for customer applications that require wetting and spreading of an active ingredient for improved performance. It has shown to provide coverage for a variety of pesticides. **Vincero 80** is a good general-purpose spreader.

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Vincero® 90

A Low-Foam Nonionic Surfactant and Humectant

Vincero® 90 is a general-purpose adjuvant that improves the effectiveness of pesticides by increasing spray coverage on target leaf surfaces. It is designed for quick wetting, uniform droplet distribution and increased spray retention on leaf and stem surfaces.

Use rate:

8-64 OZ/100

FEATURES AND BENEFITS

- ✓ Better leaf coverage and contact
- ✓ Uniform droplets allow for more pesticide onto the surface
- ✓ Enhances the pesticide application
- ✓ Tank mix compatible with many pesticides
- ✓ Ease of use

Vincero 90 is not for aquatic use. Always read and follow label instructions before use.

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ZoneCoverage™

**A Blend of Modified Vegetable Oil Concentrate
and Organosilicone Surfactant**

ZoneCoverage™ provides effective wetting and spreading of various pesticides. The oil in **ZoneCoverage** aids penetration of the pesticide into the plant tissue, while the organosilicone element assists with quick spreading and wetting, uniform leaf coverage and better absorption.

Use rate:

4 OZ/A

Aquatic Use Rate:

SEE PESTICIDE LABEL

Backpack and
Handheld Sprayers:

1-3 OZ/A

FEATURES AND BENEFITS

- ✓ Less phytotoxicity risk due to less solvency
- ✓ Reduces plant surface tension for better absorption
- ✓ Translaminar movement of certain AI through leaf tissue

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