



2026 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

QUICK REFERENCE

Product	Analysis	Product Benefits	Plant & Soil Benefits	Rate
12% Humic Acids	12% humic acid extracted 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 	Soil: 1-3 qt/A Foliar: 1-12 qt/A
6% Humic Acids CA	6% humic acid extracted 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 	Soil: 1-3 qt/A Foliar: 1-12 qt/A
7% Zinc LS	3% Sulfur, 7% Zinc	<ul style="list-style-type: none"> Complex with lignosulfonate Water soluble 	<ul style="list-style-type: none"> Critical activator of many enzyme systems Essential in the formation 	Soil: 2-4 qt/A
9% Zinc EDTA	7-0-0 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 	1pt - 2qt/A
All Day N	Unique strain of beneficial bacteria Paenibacillus azotofixans	<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
Decoder	Rhodopseudomonas palustris Bacillus brevis Bacillus licheniformis Streptomyces griseus Bacillus megaterium Rhodococcus rhodochrous Lactobacillus plantarum	<ul style="list-style-type: none"> Seven pure strains of beneficial microbes 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
Decoder Advanced	5-0-0-55 7 strains of beneficial microbes with humic acids	<ul style="list-style-type: none"> Specially formulated beneficial microbes for dry fertilizer impregnation Increases available phosphorus and nitrogen 	<ul style="list-style-type: none"> Powerful consortium of beneficial microbes that increases root growth and yield potential Solubilizes phosphorus and key plant nutrients in soil through enzyme production within the rhizosphere 	1-3 qt/ton
Expand K	0-0-14	<ul style="list-style-type: none"> Multi-application options of infurrow 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 	2-8 qt/A In-furrow 2-4 qt/A Foliar
Fulvic Acid	Fulvic concentrate from pure leonardite ore	<ul style="list-style-type: none"> Pure fulvic concentrate certified for organic production Low use rate of 1-2 pints per acre For in-furrow, banded, 2x2, and foliar applications 	<ul style="list-style-type: none"> Does not turn fertilizer black Improves emergence and early-season root growth 	1-2 pt/A
Granular Humic	0-0-10 95% humic acid extracted from leonardite	<ul style="list-style-type: none"> Fully EDTA chelated zinc 	<ul style="list-style-type: none"> Increases nutrient retention and soil structure Enhances root growth and architecture in the rhizosphere 	1-10 lb/A

Product	N	P	K	Ca	Mg	S	B	Cu	Fe	Mn	Mo	Zn	Humic Acid	Fulvic	Salt out	Density	Kelp	pH	Preferred Application	Physical State
12% Humic Acids													12 Colorimetric		<32 F	8.7		8.7	Foliar, Irrigate, Soil	Liquid
6% Humic Acids CA													6 CDFA		<32 F	8.7		8.7	Foliar, Irrigate, Soil	Liquid
7% Zinc LS						3					7				<32°F	10.4		3.3-3.8	Foliar	Liquid
9% Zinc EDTA	7										9				<32 F	10.9		7 - 7.5	Foliar, Irrigate, Soil	Liquid
All Day N																8.33		6.5 - 7	Soil/Foliar	Liquid
Decoder															<32 F	8.37		N/A	Irrigate, Soil	Liquid
Decoder Advanced	5					5							1.4		<40 F	9.3		6.8 - 7.5	Impregnation	Liquid
Expand K			14						0.3		1.9				<20°F	10.31		N/A	Foliar, Soil	Liquid
Fulvic Acid														3	N/A	8.4		2.5 - 3	Foliar, Soil	Liquid
Granular Humic			10										95 Colorimetric		N/A	N/A		9.3	Soil	Water soluble granules



Nutrition

QUICK REFERENCE

Product	Analysis	Product Benefits	Plant & Soil Benefits	Rate
Granular Humic CA	0-0-10	<ul style="list-style-type: none"> Fully EDTA chelated zinc 	<ul style="list-style-type: none"> Increases nutrient retention and soil structure Enhances root growth and architecture in the rhizosphere 	1-10 lb/A
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
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
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 	2-6 qt/A In-furrow 1-8 qt/A Row Crop 1-3 gal/A Specialty 1-3 gal/A Fertigation
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
N-STALL	NBPT	<ul style="list-style-type: none"> Treat UAN and urea 	<ul style="list-style-type: none"> Slows NH3 volatilization 	UAN: 1.5 qt/ton Urea: 3 qt/ton
N-STALL TRIPLE	Dicyandiamide (DCD) + NBPT	<ul style="list-style-type: none"> For UAN, NH3, and Urea Slows down ammonia volatilization and denitrification Complete nitrogen protection 	<ul style="list-style-type: none"> Proven to save nitrogen form loss on the soil surface, nitrification, and denitrification decreasing both volatilization and leaching nitrogen losses Increases yield potential by protecting nitrogen availability 	UAN: 2-6 qt/ton Urea: 2-4 qt/ton. Manure: 6-8 qt/ton or 20-24 fl oz/A
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 	Crop Specific, See Label



Product	N	P	K	Ca	Mg	S	B	Cu	Fe	Mn	Mo	Zn	Humic Acid	Fulvic	Salt out	Density	Kelp	pH	Preferred Application	Physical State
Granular Humic CA			10										67		N/A	N/A		9.3	Soil	Water soluble granules
Greenfill Finish	10	8	8			1	0.25	0.06	0.25		0.25				<32 F	11.05		9-11	Foliar	Liquid
Greenfill Start	30														<32 F	10.5	N/A	Foliar	Liquid	
Inflate K			24												<20°F	10.65		8.5-9.5	Foliar, Soil	Liquid
Micro Mix						0.25	0.1	3	0.001	3					<32 F	10.45		8-9	Foliar	Liquid
N-STALL																8.93		7.5	Irrigate, Soil	Liquid
N-STALL TRIPLE																9.42		11.5	Irrigate, Soil	Liquid
SEA-Z-N	5										0.35				<32°F	8.88	25	9.8 - 10.5	Foliar	Liquid





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

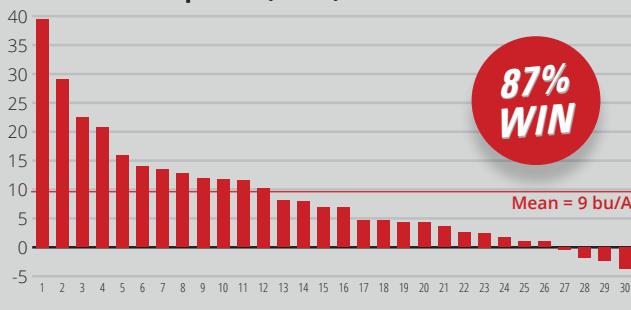
Give Your Crops and Fertilizer a Boost

12% Humic Acids boost production of your soil and fertilizer with long-chain, reactive carbon and fulvic molecules that increase nutrient availability, and uptake. Apply with polyphosphate, orthophosphate, UAN and most liquid fertilizers. **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. May be applied with several types of irrigation water systems.

SYNERGIZE YOUR STARTER

Decoder + Humic Acids 12% In-Furrow

Corn Yield Response (bu/A)



12% Humic Acids + Decoder™ gives growers more growing power. This power couple helps soil stay healthy and increase yields. **12% Humic Acids** releases and holds nutrients in the soil, promotes plant vigor and improves yields. The refined, clean formulation of **12% Humic Acids** not only unleashes your crop's potential, but reduces common application issues with sediments associated with less enhanced humic acid products.

Not registered for use in CA.

Foliar applications:

1-3 qt/A

Soil applications:

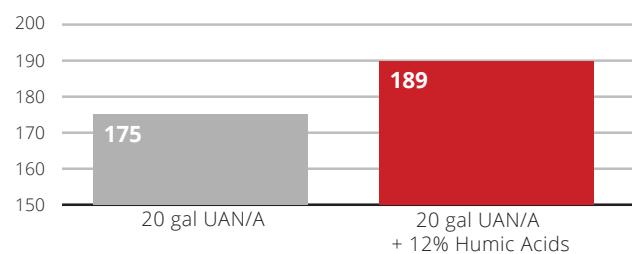
1-4 qt/A

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

ENHANCE YOUR NITROGEN

Corn Yield (bu/A) at Harvest



Corn in Wharton, TX | 2018

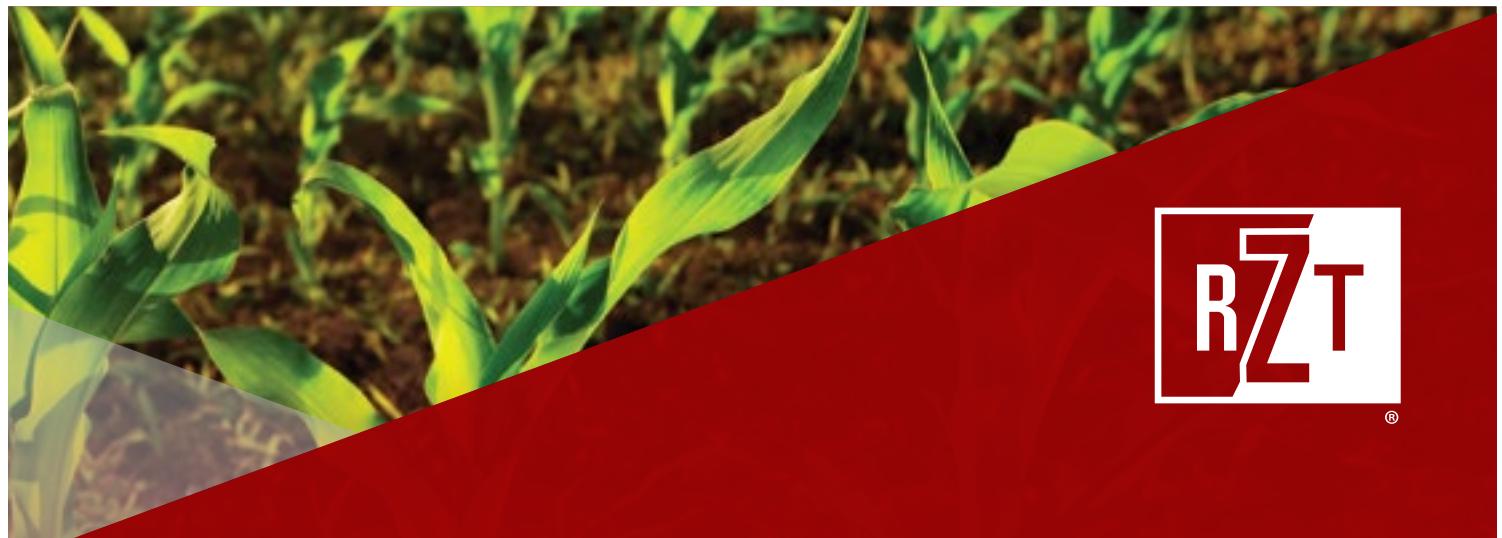
UAN applied in-season as a side-dress. Replicated, third party research
PDF187004TX48

GUARANTEED ANALYSIS

12.00% Humic Acids from Leonardite
88.00% Inert Ingredients

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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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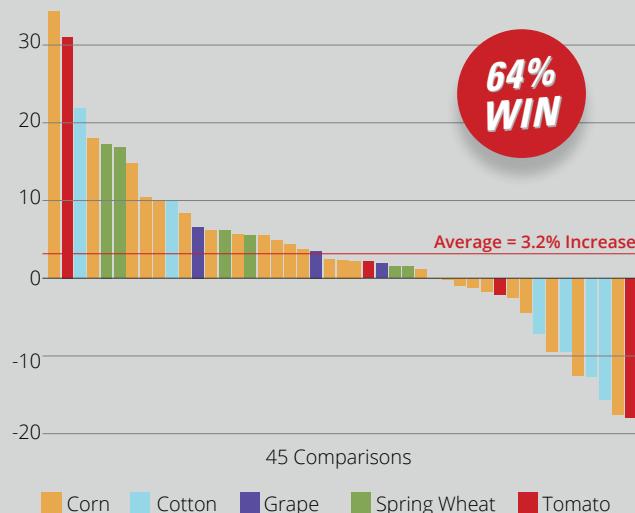
All Day N™

**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.

All Day N Performance Across Crops

% Yield Difference



In-furrow or 2x2:

1 PT/A

Broadcast or fertigation:

1-2 PT/A

Foliar applications:

1-2 PT/A

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.
- ✓ Supplemental nitrogen source that can produce up to 1/2 lb of N per day

GUARANTEED ANALYSIS

Contains Non-Plant Food Ingredients:

Paenibacillus azotofixans..... 5.5×10^8 CFU/ml

WHEN N IS A LIMITING FACTOR IN CORN...

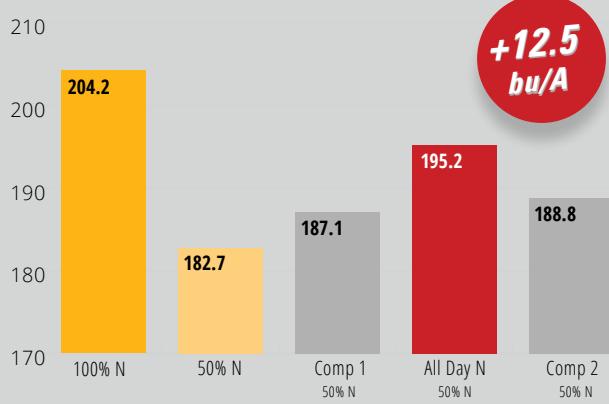
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All Day N™

WHEN NITROGEN IS ONE OF THE LIMITING FACTORS IN CORN CROP

Biological Product Performance + Reduced N Program

Yield (bu/A)



All treatments were applied in-furrow at planting

PDF237004WI01, PDF237004L04, PDF237004MI05

When N was a limiting factor in corn yield, All Day N proved to increase yield over the reduced N control and biological competitors.

Even with a 50% nitrogen reduction, All Day N shows +12.5 bu/a increase over reduced N control. Always work with your local agronomist to enhance your nitrogen program.

ALL DAY N CAN PROVIDE MORE NITROGEN, ESPECIALLY LATE-SEASON, WHEN GRAIN FILL IS MOST CRITICAL

See the difference in the same field:



Pre-emerge herbicide only



All Day N applied @ 1 qt/A with pre-emerge herbicide

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Decoder™

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

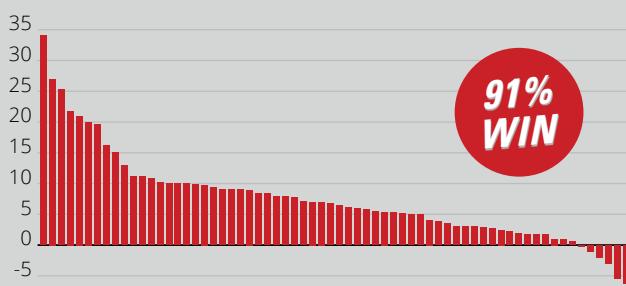
Decoder™ is a liquid biological soil amendment. As a biological catalyst, **Decoder** improves your plant's root architecture and is compatible with most dry and liquid fertilizer blends. **Decoder** also increases nutrient availability and assists with nutrient mineralization. Unlock the nutrient code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

PROVEN PREDICTABLE PERFORMANCE

Decoder Applied In-Furrow on Corn

Yield Response (bu/A)

Rate = 1 qt/A



Trials show a 91% win rate with an 8 bu/A average yield advantage across 66 sites over 4 years.

Starter or sidedress:

1-4 PT/A

Broadcast or fertigation:

1-2 QT/A

Manure applications:

1-2 QT/A

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

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Decoder™ Advanced

Release the Power of Dry Fertilizer by Increasing Nutrient Efficiency.

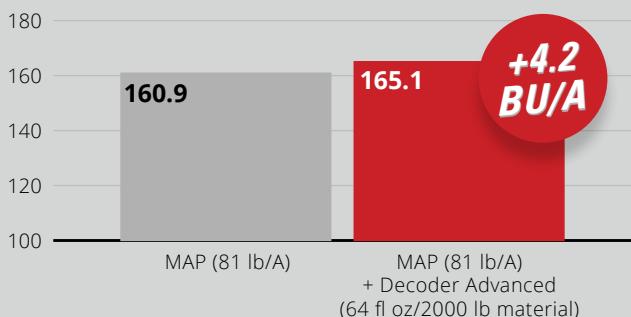
Recommended for all tree, vine, field, row, and vegetable crops.

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.

ADVANCE YOUR CORN YIELDS

Dry Fertilizer Impregnation in Corn

Corn Yield (bu/A)



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

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

Broadcast: **1-2 QT/A***

Manure applications: **1-2 QT/A****

* in enough solution to provide coverage

**(1-4 qt/3,000-3,500 gal of liquid manure)

FEATURES AND BENEFITS

- ✓ Increase nutrient uptake
- ✓ 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

» RZTProducts.com



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.

Not registered for use in CA.

**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

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Granular Humic

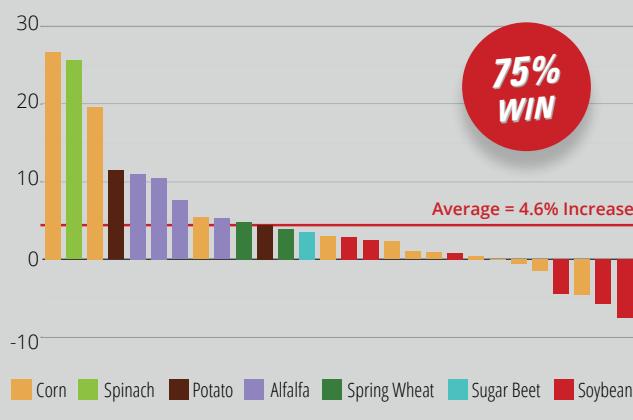
**Help Your Fertilizer Blend and
Soil Work Better Together.**

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.

Granular Humic Trials | All Crops

% Yield Difference

Compared to Fertilizer Alone | Rate = 3-6 lb/A



Not registered for use in CA.

Soil applications:

1-20 LB/A

Seeding applications:

1-5 LB/A

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 (K_2O)

DERIVED FROM: Sub-Bituminous Coals and Potassium Hydroxide.

ALSO CONTAINS NON-PLANT FOOD INGREDIENT:

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

ROOT MASS DEVELOPMENT & YIELD RESULTS...

» RZTProducts.com

Granular Humic

Root Mass Development Comparison

Sweet Corn With Pre-Plant Fertilizer Blend Applied



Week 1:
Roots are longer and have greater mass on the treated portion of the field.

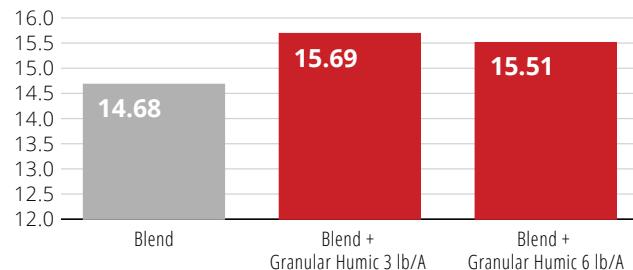


Week 3:
Granular Humic plants are greater in size and root mass.

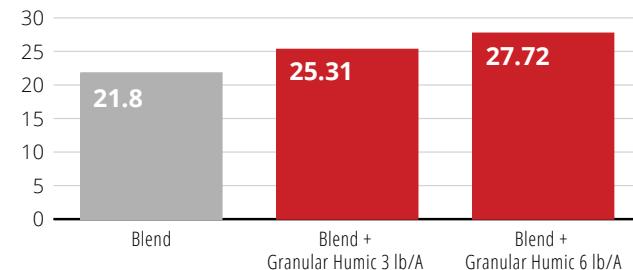
Trial # CBCR22N801BN605

Yield Response In Triticale & Corn Silage

Triticale Silage Yield (tons/A)



Corn Silage Yield (tons/A)



Trial # BPS226008TX03

Not registered for use in CA.

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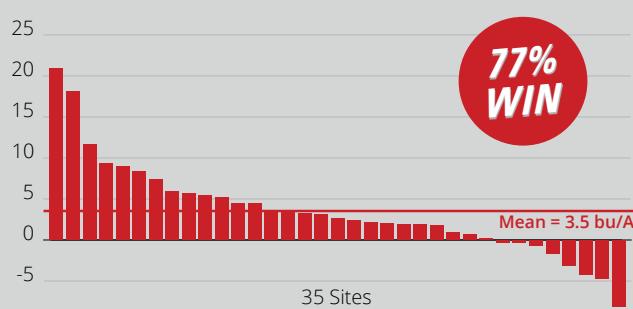
Greenfill Finish™

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.

Proven Yield Response to Foliar Applied Greenfill Finish

Yield Response (%)



Foliar Applied Greenfill Finish Rate = 2 qt/A | All Crops

Row crops:

1-4 QT/A

Cereal grains:

1-2 QT/A

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 (P_2O_5)
8.00% Soluble Potash (K_2O)
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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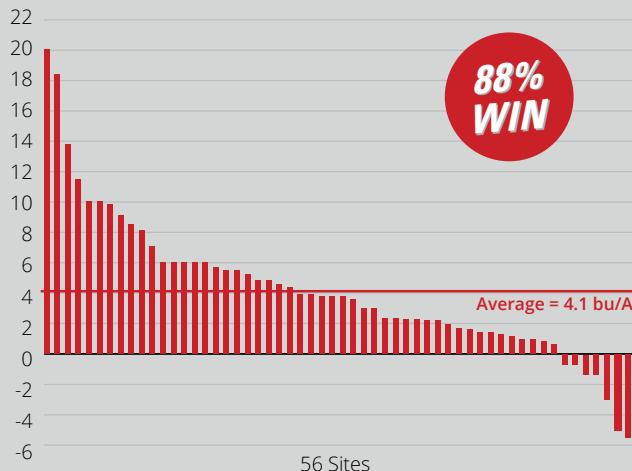
Greenfill Start

**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.

Wheat Yield Response to Greenfill Start Foliar Applied

Yield increase (bu/A) over check



1-2 gal/A of Greenfill Start applied at 4-6 leaf to early tiller | 4 years of research

Row and field crops:

1-3 GAL/A

Vegetable crops:

1-3 GAL/A

Tree and vine crops:

1-5 GAL/A

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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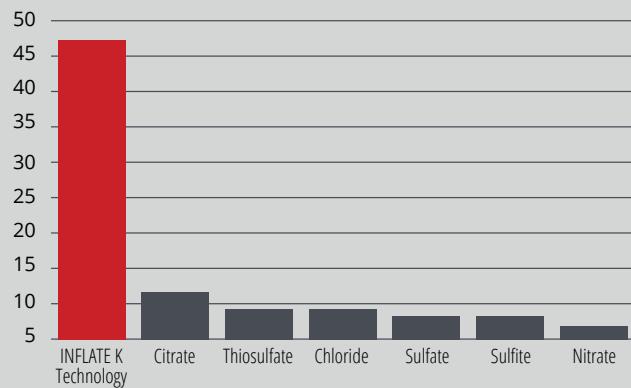
INFLATE K™

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 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.

Foliar Absorption Rate of INFLATE K Versus Other Potassium Sources

% K Absorption, Soybean Leaves



Journal of Plant Nutrition, 9(2), 143-157 (1986)

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In-furrow:

2-6 QT/A

Row Crops

2-8 QT/A

Foliar:

Specialty Crops

1-3 GAL/A

Fertigation:

1-3 GAL/A

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

GUARANTEED ANALYSIS

24.00% Soluble Potash (K₂O)

Derived From: Potassium Acetate.

» RZTProducts.com



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 formulation. **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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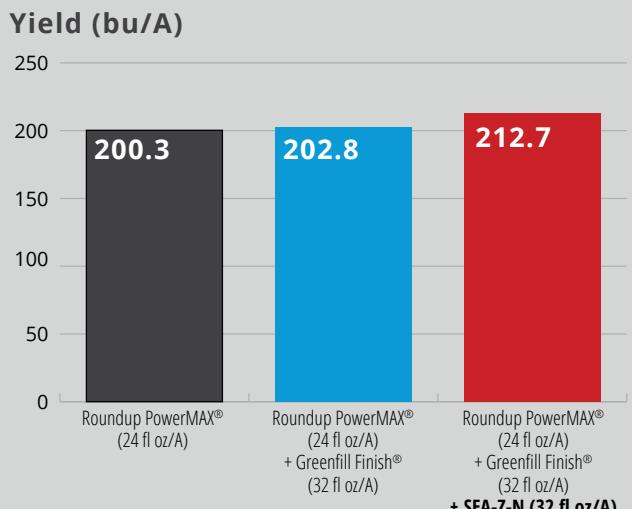


SEA-Z-N™

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 sea plants, 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.

Nutritional Materials on Corn with Herbicide



Corn, applied at V5, tank mixed with Roundup PowerMAX.
PDF206031IL19

Foliar applications:

1-4 PT/A

FEATURES AND BENEFITS

- ✓ Unmatched compatibility and performance
- ✓ Dual cold extraction of sea plants
- ✓ 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, Triazole, Methylene Urea, and Zinc EDTA.

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

ALSO CONTAINS NON-PLANT FOOD INGREDIENT:

25.00% Kelp (microbe food)

SEE RECOVERY IN ACTION...

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SEA-Z-N™



RECOVERY IN ACTION: THrips DAMAGE

Pre-treatment



4 DAA



10 DAA



SEA-Z-N @ 1 qt/A applied to cotton damaged by thrips feeding

BP5217004TX02

Donna, TX

» ***RZTProducts.com***

Adjuvants

QUICK REFERENCE

Product	Descriptor	Product Descriptions	Value Propositions	Positioning	Benefits	Rate
Aquaflux AMS	AMS-based water conditioner	An ammonium sulfate (AMS) solution that enhances the uptake of some postemergence herbicides. Aquaflux AMS is filtered through a special process to remove impurities and other contaminants generally associated with dry or other liquid AMS products.	Aquaflux AMS is designed for customers needing to condition their water and who appreciate the convenience of a concentrated liquid ammonium sulfate. Aquaflux AMS has demonstrated its effectiveness at conditioning water with high levels of dissolved salts of calcium, magnesium and/or iron that are known to be antagonistic to specific herbicides.	· Purified AMS for superior herbicide uptake	· Overcomes antagonism of salts in water to ensure optimal herbicide performance · Free of impurities for cleaner, more effective application · Formulated with a low corrosion factor to protect equipment and extend sprayer life	2.5 - 5 gal /100 gal
Aquaflux	AMS-based water conditioner	AMS plus Citric Acid water conditioner. Provides two methods of water conditioning and acidification of the spray tank pH.	Aquaflux is specially formulated to be used with many postemergence-type herbicides, which perform best when mixed with ammonium sulfate	· Enhanced sequestering agent	· Low use rate · Reduces pH · Liquid formulation	2 qt/100 gal
Cohesion	Deposition Aid Drift Reduction	Cohesion is a modified seed oil formulated to aid in the deposition of spray droplets.	Cohesion utilizes proprietary technology and is designed for customer's that want to extend the residual activity from their pre-plant/pre-emergent chemistry. Cohesion 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. Cohesion is for labeled for use in agriculture, forestry, golf course, industrial, non-cropland, roadside, turf and ornamental.	· Increase coverage · Better absorption · Improved adhesion · Drift Reduction	· Improves the residual activity of soil-applied herbicides · Increases deposition onto the intended target · Minimizes driftable fines	Soil Residual Activity 5-16 fl oz/A
Consume	Non-AMS water conditioner (citric acid based) + tallow amine surfactant + humectant package	A water quality alternative to AMS plus a surfactant that aids in enhancing of various herbicides such as glyphosate and glyphosate tank mixes, allowing faster absorption of the herbicide for a quicker response.	Consume is a multifunctional adjuvant designed to aid in the effort of managing difficult to control weeds. Consume provides adequate conditioning of the spray mix solution along with buffering the pH to alleviate the antagonistic effects from hard water minerals. Consume contains a tallow amine surfactant package along with a humectant, which allows for better wetting and spreading of the spray material onto the leaf surface. Consume 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.	· Non-AMS/water conditioner blend plus a surfactant · Designed to improve glyphosate performance · Approved for use with most products in the Xtend and Enlist® traited crops	· Excellence crop safety · Overcomes hard water antagonism · Improves herbicide translocation · Penetrates leaf surface faster	2 qt/100 gal
Coverage	Modified Vegetable Oil + NIS	Blend of modified vegetable oil and nonionic surfactant that provides wetting and spreading of the spray solution onto the leaf surface. It provides both drift reduction and increased deposition of the spray mix.	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 agrochemical applications. Coverage helps optimize the coverage of the spray material across the leaf foliage due to its excellent spreading and deposition characteristics, effectively getting the spray solution to the intended target. 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.	· Blend of modified vegetable oil and nonionic surfactant · Provides wetting and spreading of the spray solution onto the leaf surface · Provides both drift reduction and increased deposition of the spray mix	· Delivers enhanced performance of the tank-mix solution · Helps optimize the coverage of the spray material across the leaf foliage · Provides better penetration deeper into the leaf canopy due to its excellent spreading and deposition characteristics · Minimize the chance for off-target drift by managing fines	1-2 qt /100 gal
CrossGuard	Microemulsion	Micro emulsion oil based drift reduction adjuvant.	CrossGuard 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. CrossGuard 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, CrossGuard 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.	· Drift reduction · Deposition agent · Oil-based	· Reduces driftable fines · Uniform droplet size · Delivers more active ingredient to target	4 fl oz/A
Deliberate	Liquid AMS + Surfactant + Polymer DRT	Water conditioner, nonionic surfactant, and drift and deposition aid.	Deliberate is specifically formulated for customers who desire the convenience of a multifunctional additive that provides the water conditioning benefits of AMS, a nonionic surfactant that aids in the wetting and spreading of the spray material, and a patented drift and deposition aid for herbicide applications. It enhances herbicide performance by reducing mineral tie up of various active ingredients in the spray tank. Deliberate is for use in agricultural, forestry, municipal, industrial, right-of-way, and non-cropland applications.	· Convenient all-in-one water conditioner	· Prevents glyphosate tie-up · Reduces surface tension · Reduces driftable fines	2-4 qt/ 100 gal

Product	Principal Functioning Agents %	Equivalent Func. of 8.5# AMS	Actual AMS	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		
Aquaflux AMS	38%	2.5 gal /100	8.5#	N/A	N/A	N/A	N/A	YES	NO	YES	NO	NO	NO	NO	NO	YES	NO	NO	NO	YES	N/A	NO	NO	NO	None			
Aquaflux	39.08%	2 qt /100	3.68#	Anionic	N/A	N/A	N/A	YES	NO	YES	Lowers Slightly	NO	NO	NO	NO	YES	NO	NO	NO	NO	YES	N/A	YES	NO	YES	Warning		
Cohesion	100%	N/A	N/A	N/A	N/A	MSO	Proprietary	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	YES	YES	N/A	NO	NO	NO	NO	Warning	
Consume	56.40%	4 pt /100	N/A	Anionic + Nonionic	21%	N/A	N/A	YES	NO	YES	Acidifier	NO	NO	YES	NO	YES	NO	NO	NO	NO	YES	N/A	NO	NO	NO	NO	Warning	
Coverage	100%	N/A	N/A	Nonionic	Proprietary	N/A	Proprietary	NO	NO	NO	NO	YES	YES	YES	NO	YES	NO	NO	NO	NO	YES	N/A	YES	NO	NO	NO	None	
CrossGuard	100%	N/A	N/A	N/A	N/A	N/A	MSO	Proprietary	NO	NO	NO	NO	NO	Air and Ground	Air and Ground	NO	NO	NO	NO	NO	YES	YES	Gold Sky or Water Temp Below 34°	YES	NO	NO	YES	
Deliberate	33.60%	3 qt /100	94#	Nonionic	7%	N/A	N/A	YES	YES	YES	NO	Ground only	Air and Ground	YES	NO	YES	NO	NO	NO	NO	YES	Ams 40, Potassium Salt of Glyphosate	NO	NO	NO	NO	None	

Adjuvants

QUICK REFERENCE

Product	Descriptor	Product Descriptions	Value Propositions	Positioning	Benefits	Rate
Exert	Utility	Exert is a multifunctional adjuvant that helps spray solution penetrate the cuticle, lowers spray solution pH, increases deposition and minimizes driftable fines.	Exert is a non-ionic, low foaming penetrant that enhances the activity and effectiveness of pesticides and provides more uniform coverage of spray mixtures. This product improves deposition and retards (but does not eliminate) drift. It may be used as an acidifier to lower pH of spray solutions, thus preventing alkaline hydrolysis of pesticides sensitive to high pH. Exert may be applied to agricultural, forestry, industrial, turf and ornamental, and non-cropland sites. Not for aquatic use.	<ul style="list-style-type: none"> Penetrant, Acidifier, Deposition Aid, Drift Control Agent 	<ul style="list-style-type: none"> Helps spray solution penetrate waxy cuticle Lowers spray solution pH Increase deposition to intended target Minimizes driftable fines 	1-4 pt/100 gal See label for more rates
High Load HSOC	MSO/NIS Blend	High Load HSOC is a 60/40 blend of methylated seed oil and nonionic surfactant	High Load HSOC is a 60/40 modified seed oil/surfactant, high-load blend, developed for use with pesticides at lower use rates than standard modified seed oils. The product provides the necessary wetting and penetration of the active ingredients, allowing better control of the targeted species. It can be used in conjunction with various tank mixes that may include different types and formulations of pesticides, alleviating the need for multiple adjuvants. High Load HSOC meets the requirements of most pesticide labels and replaces all other nonionic surfactant, COC, and/or MSOs.	<ul style="list-style-type: none"> 60/40 MSO/surfactant blend Wetting and penetrating properties Approved for use with Enlist One® and Enlist Duo® 	<ul style="list-style-type: none"> Lower use rates than traditional MSO rates Can be used in glyphosate applications Better performance over standard crop oil concentrates 	4-32 fl oz/A
Kristol	AMS-based water conditioner + surfactant	Combination of a surfactant plus a nitrogen source.	Kristol is designed for customer applications of post-emergent 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.	<ul style="list-style-type: none"> Blend of AMS, sequestering agents plus a surfactant Improves spreading of various herbicides 	<ul style="list-style-type: none"> Enhanced sequestering - blocks mineral antagonism Liquid formulation Contains a high quality nonionic surfactant 	2-3 qt/100 gal
No Suds	Antifoaming/Defoaming Agent	No Suds is a quality antifoaming/defoaming agent	No Suds™ is designed to reduce foam structures caused by the addition of various products in a tank mix solution. Use of this product in a typical spray application will help dissipate the foam evenly and prevent lost time caused by the buildup of foam in the spray tank. Adding it to the tank first, can help prevent any foam from forming in the tank. For use with tank mix partners labeled for agricultural, forestry, industrial, and non-cropland sites; not for aquatic use.	<ul style="list-style-type: none"> Reduces foam in the tank mix 	<ul style="list-style-type: none"> Performs well with most chemicals Effective on difficult-to-control foaming problems Easy to use 	Up to 2 fl oz/100 gal
Pentrol	COC	Paraffinic oil and surfactants (83/17)	Pentrol is designed for the customer making applications that recommend the addition of a crop oil concentrate. It provides the penetrating activity of a phytobland oil with the wetting and dispersing characteristic of a surfactant. Pentrol can be tank mixed with agricultural and industrial spray materials allowing for the greatest potential return on the application investment.	<ul style="list-style-type: none"> Paraffinic oil 	<ul style="list-style-type: none"> Satisfies oil requirement 	1 gal/100 gal
Relativity	MSO + NIS + UAN	Relativity is a patented blend of methylated seed oil, UAN solution and non-ionic surfactant.	Relativity is a multifunctional blend for customers needing an oil with the added benefit of nitrogen and a surfactant. Relativity 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 the higher concentration means lower use rates. The UAN in Relativity 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 Relativity provides flexibility for use with multiple products, often saving growers time and money by reducing a pass through the field.	<ul style="list-style-type: none"> Premium postemergence adjuvant choice Satisfies general requirements for oil and nitrogen source for most crop protection products 	<ul style="list-style-type: none"> MSO improves penetration into the leaf NIS enhances spreading activity UAN helps with pesticide uptake 	1 gal/100 gal
Relentless II	MSO	100% modified vegetable oil/surfactant blend.	Relentless II, a multifunctional blend containing micro-emulsified methylated seed oil, may enhance pesticide performance through better penetration of the plant cuticle. It also contains a nonionic surfactant to improve wetting and stability of the spray solution. This product may be used on agricultural, forestry, industrial, turf and ornamental, and non-cropland sites.	<ul style="list-style-type: none"> Modified vegetable oil plus emulsifier 	<ul style="list-style-type: none"> Modified Vegetable Oil plus emulsifier Easy to use Breaks down waxy layer on leaf tissue Use in place of COC where label allows 	1 pt/A
Resilience	MSO	100% modified vegetable oil/surfactant blend.	Resilience is a 100% modified vegetable oil-surfactant blend formulated for customers applying herbicides that require the addition of a modified seed oil to enhance performance. It has wetting and penetrating properties to aid in the movement of the spray solution through a plant's waxy cuticle. It can be used in place of a nonionic surfactant and/or crop oil concentrate when the manufacturer's product label allows. Resilience is a quality modified seed oil that when used allows for the greatest potential return on the application investment.	<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	Principal Functioning Agents %	Equivalent Func. of 8.5# AMS	Actual A/M/S	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
Exert	80%	N/A	N/A	Nonionic		N/A	N/A	YES	NO	NO	YES	YES	YES	NO	NO	YES	NO	NO	NO	NO	N/A	NO	NO	NO	NO	Danger
High Load HSOC	99%	N/A	N/A	Nonionic	38.5%	MSO	60	NO	YES	NO	NO	NO	NO	NO	YES	NO	YES	NO	NO	NO	N/A	NO	NO	NO	NO	Warning
Kristol	33.50%	2 qt /100	2.49#	Nonionic	7.84%	N/A	N/A	YES	NO	YES	NO	NO	NO	NO	YES	NO	YES	NO	NO	NO	N/A	NO	NO	NO	YES	None
No Suds	10%	N/A	N/A	N/A	N/A	N/A	N/A	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	N/A	NO	NO	NO	NO	None
Pentrol	100%	N/A	N/A	Nonionic	17%	COC	109.99	NO	YES	NO	NO	NO	NO	NO	YES	NO	YES	NO	NO	NO	N/A	NO	NO	NO	NO	Warning
Relativity	83.40%	N/A	N/A	Nonionic	19.45%	MSO	40.84	NO	NO	NO	NO	NO	NO	NO	YES	NO	YES	NO	NO	YES	N/A	YES	YES	NO	YES	Warning
Relentless II	100%	N/A	N/A	Nonionic	15%	MSO	0.85	NO	NO	NO	NO	NO	NO	NO	YES	NO	YES	NO	NO	YES	N/A	NO	NO	NO	YES	None
Resilience	100%	N/A	N/A	Nonionic	15%	MSO	111.87	NO	NO	NO	NO	NO	NO	NO	YES	NO	YES	NO	NO	NO	N/A	YES	NO	NO	YES	Warning



Adjuvants

QUICK REFERENCE

Product	Descriptor	Product Descriptions	Value Propositions	Positioning	Benefits	Rate
Sentinel	DRA	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 by reducing the amount of driftable fines that are produced through the spray nozzle.	· Dicamba-approved DRA	· Increases droplet size	1-2 qt /100 gal
Spotless	Spray System Cleaner	Powerful spray system cleaner which outperforms other 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.	Spotless uses advanced cleaner technology to successfully clean spray systems. Spotless is designed for customers needing to thoroughly remove all forms of spray materials residue from application equipment to avoid potential contamination issues. Spotless emulsifies oily residues that can linger in sprayer lines and pumps. It penetrates and removes dried-on spray materials left in spray line and tanks. Spotless' strong alkalinity pH level accelerates the breakdown and solubility of spray material residue. Rinsate solution generated from the cleaning process may be applied to an agricultural field in a manner consistent with the spray material label.	· Cleans out tank residue	· 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	MSO + OS	100% premium blend of MSO and Organosilicone	Stabilis™ is a unique multifunctional spray adjuvant that consists of a highly refined-modified spray oil and nonionic organosilicone, formulated to provide fast spreading, uniform distribution, and increased absorption on the plant tissue. Use of this product in a typical spray application will provide better coverage across the plant tissue and increase the level of active ingredient penetration into the leaf cuticle. When used in conjunction with proper spray equipment selections, Stabilis will help increase the level of performance of the pesticide when applied to agricultural, forestry, turf and ornamental, industrial, and non-cropland sites.	· Premium blend of MSO and organosilicone, that provides excellent penetration and spreading on the plant tissue	· Provides effective wetting and spreading of various pesticides · Aids penetration of the pesticide into the plant tissue · Assists with quick spreading and wetting, uniform leaf coverage and better absorption	1-5 pt /100 gal
Strongside Plus	Spreader-Activator	Spreader-Activator improves the activity and efficacy of the spray application by reducing surface tension and increasing penetration into the plant surface.	Strongside Plus 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. Strongside Plus is labeled for use with insecticides, fungicides, miticides, herbicides, defoliants, desiccants, and plant growth regulators.	· Nonionic surfactant · Spreader-Activator	· 80% true surfactant · Excellent tank mix compatibility (especially in cold water)	1 qt/100 gal
Vincero NIS	NIS	Nonionic surfactant used to improve the spreading and effectiveness of agricultural pesticides such as herbicides, insecticides, fungicides, and miticides.	Vincero NIS is designed for customer applications that require wetting and spreading of an active ingredient. It has shown to provide adequate coverage for a variety of vegetative management spray materials. Vincero NIS is a good general purpose spreader.	· Nonionic surfactant	· Reduces surface tension	1 qt/100 gal



Product	Principal Functioning Agents %	Equivalent Func. of 8.5# AMS	Actual AMS	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	
Sentinel	1%	N/A	N/A	N/A	N/A	None	N/A	NO	NO	NO	NO	Air and Ground	Air and Ground	NO	NO	NO	NO	NO	NO	YES	N/A	NO	NO	NO	None		
Spotless	100%	N/A	N/A	N/A	N/A	N/A	N/A	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	N/A	NO	NO	NO	NO	None	
Stabilis	100%	N/A	N/A	Nonionic	8%	MSO	85%	NO	NO	NO	NO	NO	NO	Yes	NO	Yes	NO	NO	NO	NO	N/A	NO	NO	NO	NO	None	
Strongside Plus	90%	N/A	N/A	Nonionic	80%	N/A	N/A	NO	NO	NO	NO	NO	NO	YES	NO	YES	NO	NO	NO	NO	N/A	YES	NO	NO	YES	Warning	
Vincero NIS	89.95%	N/A	N/A	Blend of Anionic and Nonionic	Proprietary	N/A	N/A	NO	NO	NO	NO	NO	NO	YES	NO	YES	NO	NO	NO	NO	N/A	NO	NO	NO	NO	None	





AquaFlux™ AMS

Purified AMS for superior herbicide uptake

AquaFlux™ AMS is an ammonium sulfate solution that improves the uptake of some post-emergence herbicides. **AquaFlux AMS** is filtered through a special process to remove impurities and other contaminants generally associated with dry or other liquid AMS products.

Use rate:

2.5-5 GAL/100

FEATURES AND BENEFITS

- ✓ Overcomes antagonism of salts in water to ensure optimal herbicide performance
- ✓ Free of impurities for cleaner, more effective application
- ✓ Formulated with a low corrosion factor to protect equipment and extend sprayer life
- ✓ Low corrosion factor, reducing wear and tear on spray nozzles for consistent application
- ✓ Easy to handle and mix, ensuring efficient operation in the field
- ✓ NPE free

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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™

Optimize Soil-Applied Herbicide Performance

Cohesion™ utilizes proprietary technology and is designed for customers who want to optimize residual activity from their pre-plant/preemergent chemistry. **Cohesion** helps to increase spray deposits, resulting in more uniform and better coverage. Once on the soil, the **Cohesion** results in adhesion of the preemergent to the soil, keeping it concentrated in the surface where it provides for longer weed control than the herbicide alone.

Seeing is Believing



Less weeds are present in the trial block with **Cohesion** added in the Matrix + Prowl tank mix.

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In-Season Applications:
Drift Reduction:

4 FL OZ/A

Post-Season Applications:

8-16 FL OZ/A

When mixing products, it's generally recommended to add Cohesion last.

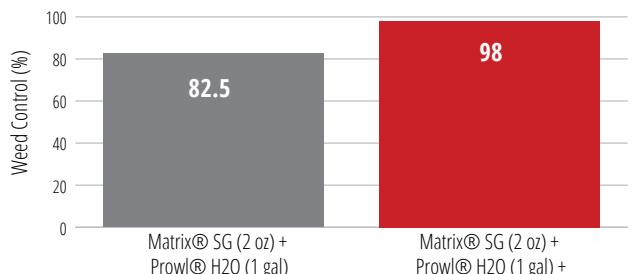
FEATURES AND BENEFITS

- ✓ Greater herbicide soil retention leading to improved residual weed control
- ✓ Increased soil deposition creating better coverage
- ✓ Excellent soil absorption and adhesion properties
- ✓ Excellent tank mix compatibility

Improve Weed Control With Cohesion

Fall Herbicide on Honeycrisp Apples

148 DAT



Manson, WA

CCR20A012CN5101

By adding **Cohesion** to the tank mix, weed control increased by 18.78%.

» RZTProducts.com



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 adequate conditioning of the spray mix solution along with buffering the pH to alleviate the antagonistic effects from hard water minerals. **Consume** contains a tallow amine surfactant package along with a humectant, which allows for better wetting and spreading of the spray material onto the leaf surface. **Consume** 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.

Use rate:

2 QT/100

FEATURES AND BENEFITS

- ✓ Water conditioning
- ✓ Tallow-amine surfactant package
- ✓ Non-AMS/Water Conditioner Blend
- ✓ Minimizes antagonistic effects of hard water
- ✓ Uniform coverage onto plant surface
- ✓ Increased absorption of the active ingredients

12 Days After Treatment

Common Lambsquarters (left) and Kochia (right)



**Glyphosate
+ AMS**

Rate:
Roundup® PowerMAX® 22 fl oz/A
+ AMS 4 lb/100 gal



**Glyphosate
+ Consume**

Rate:
Roundup® PowerMAX® 22 fl oz/A
+ Consume @ 2 qt/100 gal

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Coverage™

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

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.

Use rate:

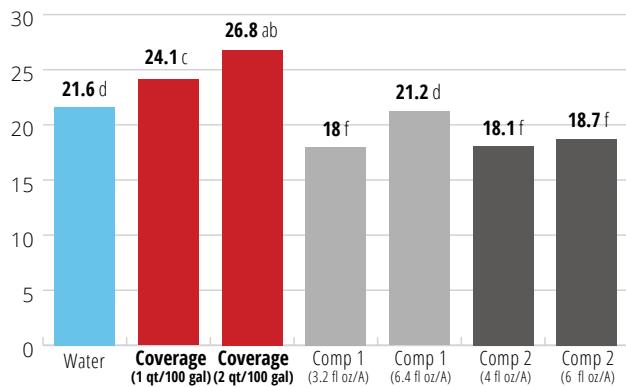
1-2 QT/100

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

Increased Coverage Over Leading Competitors

% Coverage



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CrossGuard™

A Drift and Deposition Aid Designed to Improve Pesticide Applications

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 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.

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***

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.

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
- ✓ Drift reduction agent and deposition aid

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Exert™

**Multi-functional adjuvant that contains NIS,
lowers pH of water and aids in drift/deposition**

Exert™ is a non-ionic, low foaming penetrant that enhances the activity and effectiveness of pesticides and provides more uniform coverage of spray mixtures. **Exert** improves deposition and reduces drift. It may be used as an acidifier to lower pH of spray solutions, thus preventing alkaline hydrolysis of pesticides sensitive to high pH. **Exert** may be applied to agricultural, forestry, industrial, turf and ornamental, and non-cropland sites. Not for aquatic use.

Acidifying Agent

Mildly Alkaline Water (pH 6.5-8) **4-8 FL OZ/ 100**

Highly Alkaline Water (pH > 8) **8-16 FL OZ/ 100**

Defoliants, Desiccants, Herbicides

Penetrant **1-4 PT/ 100**

COC Replacement **0.75-2 PT/ 100**

Foliar Nutrition & Other Crop Protection Products **0.5-2 PT/100**

FEATURES AND BENEFITS

- ✓ Penetrant
- ✓ Acidifier
- ✓ Deposition Aid
- ✓ Drift Control Agent

Please see label for additional use rates, always read and follow label instructions.

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» RZTProducts.com



High Load® HSOC

A high surfactant oil concentrate

High Load® HSOC aids in penetration and spreading of the tank mix through the plant's waxy cuticle, increasing the effectiveness of many post-emergent herbicides. This HSOC 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

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» RZTProducts.com



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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No Suds™

Reduce Foam in the Tank Mix

No Suds™ is designed to reduce foam structures caused by the addition of various products in a tank mix solution. Use of this product in a typical spray application will help dissipate the foam evenly and prevent lost time caused by the buildup of foam in the spray tank. Adding it to the tank first, can help prevent any foam from forming in the tank. For use with tank mix partners labeled for agricultural, forestry, industrial, and non-cropland sites, not for aquatic use.

Use rate:

2 QT/100

FEATURES AND BENEFITS

- ✓ Performs well with most chemicals
- ✓ Effective on difficult-to-control foaming problems
- ✓ Easy to use

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» RZTProducts.com



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™ II

Modified Vegetable Oil/Surfactant Blend

Relentless™ II 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:

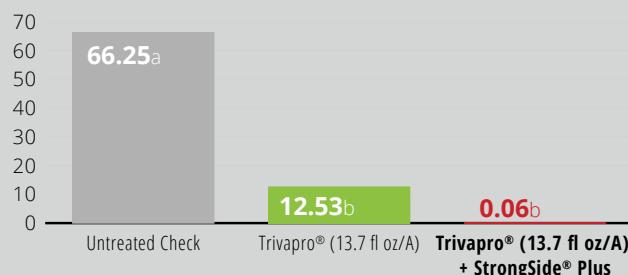
1 QT/100

FEATURES AND BENEFITS

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

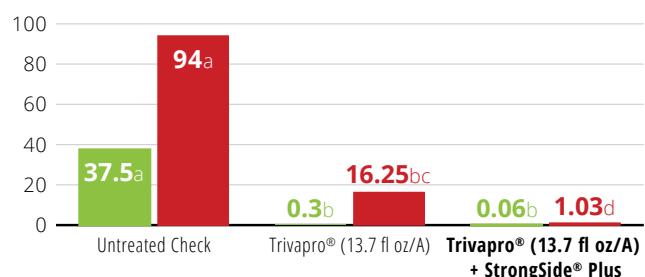
STRONGSIDE PLUS IMPROVES FUNGICIDE EFFICACY IN WINTER WHEAT

Powdery Mildew (% Incidence) 22 DAA



22 days after fungicide application, adding StrongSide Plus shows 0.06% incidence of powdery mildew, an improvement from 12.35% with fungicide alone.

Powdery Mildew (% Severity) 22 DAA



76 days after fungicide application, adding StrongSide Plus shows 1.03% severity of powdery mildew, and improvement from 16.25% with fungicide alone.

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Means followed by same letter do not significantly differ. If graph contains multiple bars/lines, means from different evaluations (different colored vertical bars or different points on line) do not correspond. (Non-Nutrition/Biological: $\alpha=0.05$, Nutrition/Biological: $\alpha=0.10$, LSD

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Vincero® NIS

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

Vincero® NIS is designed for custom 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 NIS** is a good general-purpose spreader.

Use rate:

8-64 FL OZ/100

FEATURES AND BENEFITS

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

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