Chemo Agriculture

NUTRITION, BIOSTIMULANTS, SPECIALTY CHEMICALS, SURFACTANTS, ADYUVANTS, WETTING AGENTS, AND SOIL AMENDMENT TECNOLOGY



Chemo International
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ABOUT US

CHEMO INTERNATIONAL was established in Toronto, Canada in 1960, Chemo International has grown to its current headquarters in Miami, Florida, with additional subsidiaries in Guatemala, Colombia and Costa Rica, and with services and sales provided in over 20 countries. CHEMO INTERNATIONAL has been providing sourcing solutions and technical support to customers across diverse industries such as coatings manufacturing, agricultural specialty products, personal care products manufacturing, and other household and specialty industrial products. We take pride in being the oldest, and now the most comprehensive chemical export company of our kind. Chemo's success can be traced directly to the quality of our management and the expertise and dedication of our staff over the past half century.

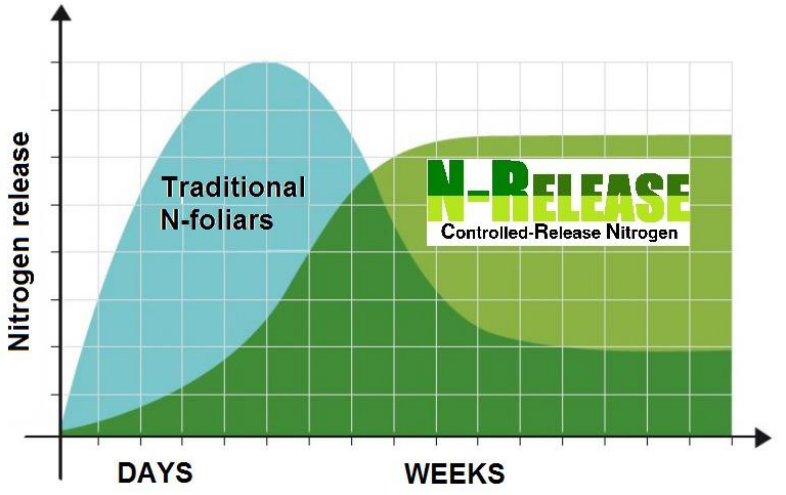
CHEMO AGRICULTURE is the agricultural oriented division of CHEMO INTERNATIONAL, born of the demands encountered for specialty agricultural products with various customers in Central and South America as well as the Caribbean. CHEMO AGRICULTURE is now a premier distributor and formulator of high technology specialty chemicals for agriculture. Specializing in providing a wide range of product solutions for all major crops in the Americas, CHEMO AGRICULTURE has been working with our agricultural customers to increase production yields, reducing production costs, and providing environmentally sound farming solutions.

At CHEMO AGRICULTURE we have worked to develop specialty products customized for the major crops in the Central America, Caribbean and South American region, specializing in nutrition, protection and soil improvement programs across all crop groups. Whatever your needs, problems or improvements, CHEMO AGRICULTURE is dedicated to providing professional agricultural consultancy services through our technical support staff, with years of experience in diverse crops to improve our customers productivity and profitability.

CONTROLLED-RELEASE NITROGEN

N-RELEASE®
Controlled-Release Nitrogen

N-RELEASE is a controlled-release foliar fertilizer that provides weeks of steady nutrition. Based on Controlled-Release Nitrogen technology, N-RELEASE is both safe and economical to use, providing a balanced and reliable source of nitrogen for many weeks. N-RELEASE is an excellent nitrogen supplement to any fertility program, providing an efficient nitrogen supplement when the it is needed the most for a better crop yield and quality, without the growth spike of conventional fertilizers.



A variety of N-RELEASE formulations are available to meet specific crop needs and varying climate conditions.

N-RELEASE 30-0-0: Control-released nitrogen with 40% ureic nitrogen, and 60% control-released nitrogen. 30% Nitrogen: 40% Controlled-Released Nitrogen. Typical rate is 1-4 gal. / hectare

N-RELEASE MICROS: Controlled release nitrogen up to seven weeks, plus micro-elements (boron, copper, iron, manganese, and zinc).
25% Nitrogen: 30% Controlled-Released Nitrogen
0.5% Boron (B) 0.1% Iron (Fe) 0.05% Copper (Cu) 0.05% Manganese (Mn)
0.05% Zinc (Zn) Typical rate is 1-4 gal. / hectare

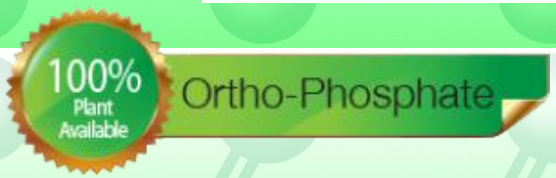
N-RELEASE 25-0-0 +0.5%B: Controlled released nitrogen for up to seven weeks, plus Boron. 25% Nitrogen: 30% Controlled-Released Nitrogen, 0.5% Boron. Typical rate is 1-4 gal. / hectare

N-RELEASE 28-0-0: Controlled released nitrogen for up to 14 weeks. 28% Nitrogen: 70% Controlled-Released Nitrogen. Typical rate is 1-4 gal./ hectare

ORTHO-PHOSPHATES

P-ORTHO

ORTHO-PHOSPHATE



P-ORTHO is a high concentration orthophosphate fertilizer that promotes strong root growth. Orthophosphates provide a superior readily available P & K source, immediate available for plant uptake. Water based formulations with low salt indexes make P-ORTHO a superior P & K source for any crop requirement.

P-ORTHO 0-54-0 Phos Acid: Phosphoric acid for soil applications to provide readily available phosphate, lower soil pH and help manage bicarbonates. Typical rate: inject at 1:100 ratio or 1-2 gal per 1000 gal of irrigation water.

P-ORTHO 3-18-18 DKP: Extremely low salt index mixture of UAN and di-potassium phosphate (DKP) in a 100% plant available form for rapid and efficient foliar absorption and superior tank mix compatibility. Typical rate is 2-10 gal / hectare

P-ORTHO 0-20-20 DKP: Di-potassium phosphate, a low salt index, high foliar available phosphorous and potassium source. Typical rate is 2-10 gal. / hectare

P-ORTHO 14-7-7 DKP w/CRN: Di-potassium phosphate and 50% controlled-release nitrogen providing highly available foliar nutrients with a low salt index. Typical rate is 2-10 gal. / hectare

P-ORTHO 14-7-7 DKP: Di-potassium phosphate and ureic nitrogen provides highly available nutrients with a low salt index. Typical rate is 2-10 gal/ hectare

P-ORTHO K-STARTER 5-30-7: High phosphorous starter fertilizer with 0.02%B, 0.05% Mg, 0.05% Fe, 0.02% Mn, 0.03% Zn. Typical rate is 1-3 gal. / hectare in 100 gal of water.

P-ORTHO K-STARTER 5-30-7 +S: High phosphorous starter fertilizer with 0.02%B, 0.05% Mg, 0.05% Fe, 0.02% Mn, 0.03% Zn, 1% SiO2. Typical rate is 1-3 gal. / hectare in 100 gal of water.

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Grow-Phite
Potassium Phosphite

GROW-PHITE phosphites are manufactured using the highest purity raw material available with the most advanced facilities and procedures, resulting in a highly stable, clean and and effective potassium phosphite. Potassium-phosphite is well documented to enhance crop yields, stress resistance and plant vigor. GROW-PHITE phosphites are an important tool in crop production, supplying supplemental potassium as well as providing a variety of beneficial affects such as enhanced rooting, increased yields, and enhanced resistance to conditions that promote decease.

GROW-PHITE BASIC 0-28-26: Pure potassium phosphite in a neutral pH, ultra high purity formulation. Typical rate is 2.5 - 5 qt / hectare

GROW-PHITE 0-30-31: Pure potassium phosphite in a neutral pH, ultra high purity formulation. Typical rate2.5 - 5 qt / hectare

GROW-PHITE 2-40-16: High analysis potassium phosphite. Typical rate 2.5 - 5 qt / hectare

GROW-PHITE SOIL 0-60-0: 70% phosphorous acid solution for soil applications. Typical rate 2.5 - 5 qt / hectare

GROW-PHITE SOIL 0-50-15: Ultra high analysis potassium phosphite for soil applications.Typical rate 2.5 - 5 qt / hectare

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PHOSPHITES

Grow-Phite MAX

Potassium Phosphite + Silica

The GROW-PHITE MAX product line represents leading edge phosphite technology. The combination of potassium phosphite and plant-available silica, increases plant health, vigor and stress resistance like no other phosphite. While the phosphite enhances the plant by eliciting defense responses in chemical signaling pathways, silica physically enhances plant strength, hardiness and stress resistance.

Sil-Shield technology

GROW-PHITE MAX 0-26-24: Potassium phosphite and 3% Sil-Shield silica for maximum stress resistance. Typical rate 1 - 3 gal. /hectare.

GROW-PHITE MAX 0-30-20: High analysis potassium phosphate with 3% Sil-Shield silica for maximum stress resistance. Typical rate 1 - 3 gal. /hectare.

GROW-PHITE MAX 2-40-16: High analysis potassium phosphite with 1% Sil-Shield silica for maximum stress resistance. Typical rate 1 - 3 gal. /hectare.

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ACETATE-BASED NUTRIENTS

ACE ACETATE TECHNOLOGY

ACE are acetate technology products. Acetate-based nutrients generally have superior foliar availability over traditional nutrients. Lower use rates and more efficient nutrient utilization are typical of acetate based nutrients. This allows crop managers to reduce overall salt loads while safely achieving excellent tissue levels of nutrients.

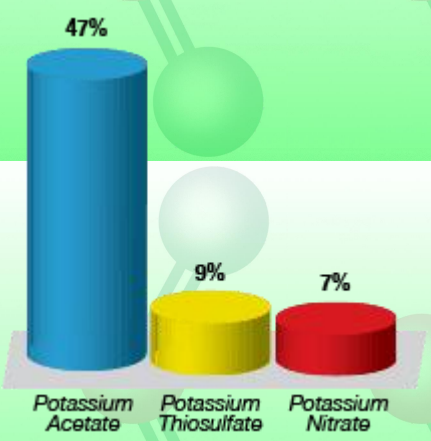
ACE Zn 8%: Zinc acetate. Typical rate 1-4 liters/ hectare

ACE Mn 7%: Manganese acetate. Typical rate 1-4 liters/ hectare

ACE Ca 5%: Calcium Acetate. Typical rate 1-4 liters/ hectare

ACE Mg 5%: Magnesium acetate. Typical rate 1-4 liters/ hectare

ACE K 0-0-29: Pure potassium acetate with the highest degree of foliar availability out of any other potash source. Typical rate 1-5 gal / hectare



ACE paK 2-0-26: Fast release urea with potassium acetate provides superior safety and absorption of potassium than potassium nitrate. Typical rate 1 -5 gal. / hectare

ACE paK 5-0-20: 60% control-released nitrogen with potassium acetate provides superior safety and absorption of potassium than other potassium sources, such as potassium nitrate. A superior replacement for potassium nitrate. Typical rate 1 -5 gal. / hectare

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ACE paK 12-0-15: Foliar fertilizer with 37% control-released nitrogen and potassium acetate provides a low salt index fertilizer with superior availability. Typical rate 1 -5 gal. / hectare

ACE paK 14-2-14: Balanced foliar fertilizer with 50% control-released nitrogen, ortho-phosphate and potassium acetate with a low salt index and superior foliar absorption. Typical rate 1 -5 gal. / hectare

ACE paK Zn: Specialty formulation containing potassium acetate and zinc acetate for safe foliar applications. Typical rate 1 -5 gal. / hectare

	Rate	% K	absorption Rate %	K2O/UOM	Foliar absorption
Potassium Acetate	2 Lt	29%	47.30%	0.694 kg	0.347 kg
Potassium Thiosulfate	2 Lt	25%	9.50%	0.685 kg	0.065 kg
Potassium Chloride	4.5 kg	60%	9.40%	2.70 kg	0.254 kg
Potassium Sulfate	4.5 kg	50%	8.80%	2.25 kg	0.198 kg
Potassium Nitrate	4.5 kg	44%	7.40%	2.00 kg	0.149 kg

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DELIVER
Micronutrients

DELIVER products offer enhanced availability of microelement nutrients for foliar and soil applications. There is a specialty formulation for all specific microelement requirement, with a diversity of derivative formulations.

Ca 10%: glucoheptonate-chelated calcium designed for foliar or soil applications. Typical rate is 1-3 gal./Ha

Cal-Nite: 8-0-0 with 10% Ca derived from calcium nitrate. Typical rate is 1-3 gal./Ha

Cal-Bor: 10% calcium glucoheptonate with 0.5% Boron for enhanced cell wall structure. Typical rate is 0.5 - 3 gal./Ha

Corn Mix: 1% Mn, 5% Zn, 1 % Cu chelated with lignin sulfonate for foliar or soil aplications. Typical rate is 1-3 gal./Ha

CropWorks Iron Clirate: 5% Iron complexed with citric acid for enhanced uptake and reduced staining. Typical rate is 1-5 gal/ Ha

Gluco Max: 1% Mg, 4% Mn, 3% Fe, 0.02% B chelated with glucoheptonate. Typical rate is 1-3 gal./Ha

Manta Plex: 7% Manganese chelated plus 4% S. Typical rate 1-3 gal/ Ha

Man-Nite: 7-0-0 with 15% Mn derived from Mn Nitrate. Typical rate is 0.5-5 gal. / Ha

Mag-Nite: 7-0-0 with 6.3% Mg derived from Mg Nitrate. Typical rate is 0.5-5 gal. / Ha

Zn-Nite: 7-0-0 with 17% Zn derived from Zn Nitrate. Typical rate is 0.5-5 gal. / Ha

6% Fe: 6% Chelated iron derived from iron glucoheptonate. Typical rate is 1-5 gal/ Ha

3% Mg: 3% Chelated magnesium derived from magnesium glucoheptonate. Typical rate is 1-5 gal/ Ha

5% Mn: 5% Chelated manganese derived from magnesium glucoheptonate. Typical rate is 1-5 gal/ Ha

Moly B 5-0-0: 5% N, 3.3% Boron and 3.6% Molybdenum. Typical rate is 0.5-1 gal / Ha

Man-Z: 2.9% Mn, 3.6% Zn, complexed with organic acids. Typical rate is 1-3 gal. / Ha

Man-ZeF: 2% Mn, 2.4% Zn, 1.6% Fe complexed with organic acids.Typical rate is 1-3 gal. / Ha

DNC (DELIVER NUTRIENT CONCENTRATE)

DELIVER MICRO is a high availability liquid nutrient formulation of N-P-K with a quick release nitrogen source and chelated micronutrients. It is designed to supplement standard fertility programs and to rapidly correct or prevent nutritional deficiencies. When timely and adequately applied during the cropping season DELIVER MICRO increases plant growth, health, production, rooting, and fruit quality.

DNC 11-8-5: Boro (B) 0.02%, Cobalt (Co) 0.0005%, Copper (chelated Cu) 0.05%, Iron (chelated Fe)0.10%, Manganese (chelated Mn)0.05%, Molybdenum (chelated Mo) 0.0005%, Zinc (chelated Zn) 0.05%

DNC 10-5-7: Iron (chelated Fe) 0.02%, Manganese (chelated Mn), Zinc (Chelated Zn) 0.01%, Molybdenum (Mo) 0.001%, Boron (B) 0.012%

POTATO MIX PLUS: 1.5% Mg 3% S 0.15% B 0.5% Fe 2.5% Mn 0.02% Mo 1.5% Zn chelated with lignin sulfonate plus fulvic acid and SiO2. Typical rate is 1-3 gal. / Ha

VEG MIX PLUS: 2% Mg 0.05% B 1.8% Fe 1% Mn 0.002% Mo 1% SiO2 1% Zn chelated with lignin sulfonate + fulvic acid Typical rate is 1-3 gal. / Ha

EMP (Enhanced Micronutrients Package): EMP is a specialty micronutrient designed to increase stress resistance and enhance crop yields. EMP contains a biostimulant package as well as SAR elicitor compounds designed to enhance stress resistance and increase crop production under adverse conditions. EMP contains 1.5% Mg, 0.75% Mn, 3.5% Fe, 0.75% Zn, 0.004% Mo, and 0.17% B with fulvic acid and humic acid added to enhance nutrient uptake. Typical rate is 1-3 gal. / Ha

Samurai 6: 3-0-3, 1% Mg, 0.15% B, 1% Fe, 2% Mn, 0.02% Mo, and 2% Zn. A foliar fertilizer comprised of urea, potassium acetate, magnesium nitrate, minor nutrients and salicylic acid. 2-10 gal. / Ha

Zen-Plex

Originally designed for winter wheat, ZEN Plex is a good general purpose minors package with fulvic acid, 2% N, 0.2% B, 0.3% Fe, 3.2% Mn, 0.01% Mo, 2.1% Zn. Typical rate is 1-3 gal. / Ha

STRESS RELIEF

Crop Defender

CROP DEFENDER are foliar nutrients designed to increase crop yields and reduce plant stress. The Crop Defender technology package is a combination of fulvic acid, plant-based biostimulants and multiple compounds designed to elicit systemic acquired resistance (S.A.R.) in plants. This proprietary combination helps to increase yields and reduce plant stress while ensuring optimal nutrient levels. The addition of our patent-pending Sil-Shield silica further enhances a plant's stress resistance, drought resistance, physical strength, and post harvest quality, making the Sil- Shield Crop Defenders one of the most comprehensive and innovative plant defense nutrients available. Available with and without silica.

Sil-Shield technology

SAR Elicitor

SS Bloom Defender
4% Ca, 1% Mg, 0.7% B, 0.02% Mo, 1% SiO2. Typical rate is 1-3 gal. / Ha

SS Citrus Defender
0.5% Mg, 0.5% Fe, 4% Mn, 4% Zn, 1% SiO2. Typical rate is 1-3 gal. / Ha

SS Man-ZeF Defender
0.6% Mg, 2% Mn, 2.4% Zn, 1.6% Fe, 1% SiO2. Typical rate is 1-3 gal. / Ha

SS Micro Defender
1% Mg, 0.6% Mn, 3% Fe, 4% S, 0.5% Zn, 0.02% Mo, 0.10% Cu, 0.5% B, 0.02% B, 1% SiO2. Typical rate is 1-3 gal. / Ha

SS Ultra Defender
0.5% Mg, 4% Mn, 4.5% S, 0.5% B, 0.75% Fe, 2% Zn, 1% SiO2. Typical rate is 1-3 gal. / Ha

BIO-STIMULANTS

CHEMO AGRICULTURE has diverse group of bio-stimulant products, designed for a wide range of functions. For stress release, to root development, extreme environment resistance, special soil conditioning, or decease resistance these products are designed with the best raw materials (kelp extracts, amino acids, fulvic acids, etc.) and highest technology to react quickly and provide fast relief, recuperation, and protection to crops

CropWorks SA-10

10% Solution of Salicylic Acid. Applications of salicylic acid have been demonstrated to increase crop yields and enhance stress resistance. Typical rate 1-3 pt. / acre.

Resist 2-0-2

Resist contains SAR elicitor compounds to enhance stress resistance, amino acids to aid in protein synthesis and carbohydrate production, humic acid & fulvic acid to enhance nutrient uptake & utilization, and biostimulant compounds to enhance plant vigor and crop yield even during periods of stress. Typical rate is 0.5 - 2 gal.

Sil-Shield 25% Silica

25% plant available silica derived from patent pending Sil-Shield Technology. Sil-Shield silica is designed to be more plant available than potassium and sodium silicates and unlike other silicates, Sil-Shield will tank mix with virtually any input at virtually any pH range. Typical rate is 1-3 qt. / acre.

CalSEAum 5-0-0 with 8% Ca

Highly plant available calcium with auxin-rich kelp extract. Designed to enhance stress resistance, encourage rooting, and to increase heat / drought tolerance. This unique form of kelp extract contains a high auxin to cytokinin ratio which has a strong influence on encouraging root growth. Typical rate is 1.5-3 oz / 1,000 sq. ft.

SeaGreen 4-0-0

Urea combined with 15% kelp extracts, iron, manganese, magnesium, and zinc. Designed to enhance root growth and color response while encouraging resistance to stress conditions. Typical rate is 3 oz / 1,000 sq. ft.

Hume-8 0-0-8

A blend of humic acid, kelp extracts, potassium acetate and organic acid complexed iron. Designed to enhance cation exchange, enhance nutrient utilization, color response, and enhance tissue levels
of potassium. Typical rate is 3-6 oz. / 1,000 sq. ft.

Soil Plex 10-0-5

60% SRN with Potassium Acetate, 15% kelp extracts, 8.5% humic acid, 1.75% fulvic acid. Typical rate is 0.5 - 2 gal / acre in minimum 50 gal of water.

Hume Express 622 Zn

Ammonium polyphosphate & phosphoric acid with 0.7% chelated zinc and 7% humic acid. Typical rate is 0.5 - 4 gal / acre in minimum 50 gal of water.

TurNAround 4-0-0 with 7% Calcium

Derived from calcium biopolymers & calcium nitrate, combined with a block polymer surfactant. Designed to remediate high sodium soils and help turf resist and recover from salt damage. This formulation attacks sodium from three angles: calcium removes sodium from the soil particle, a sequestering agent keeps the sodium in solution and a block polymer surfactant helps move the sodium down and out of the root zone.

Hidra-H

HIDRA-H technology products contain high content of humic acids from 100% leonardite natural ore source. These products improve fertility efficiency in soil by incorporating organic matter as humic and fulvic acids, improving soil conductivity making nutrients more available to roots. HIDRA-HUMICO also improves soil deficiencies caused by low organic content, pH imbalances and sandy soils. HIDRA-HUMICO stimulates accelerated root development, improving soil structure, increasing water retention capacity and reducing negative effects of salinity.

HIDRA-H 12%: A blend of humic and fulvic acids, with 15% concentration by A&L and BaCl method of analysis. Typical rate 0.5-2 gal / Ha.

HIDRA-H 20%: A blend of humic and fulvic acids, with 20% concentration by A&L and BaCl method of analysis. High pH range tolerance. Typical rate 0.5-1 gal / Ha.

HIDRA-Fulvic Advanced 30%: Concentrated low molecular weight fulvic acid for enhanced nutrient uptake and cell division. 0.25 -1 gal / Ha

HIDRA-H ULTRA: A blend of humic a fulvic acids, with 12% concentration by A&L and BaCl method of analysis, with added 12% nitrogen from, and 7% sulfur derived. Typical rate 0.5-2 gal / Ha.

ADYUVANTS

F-COAT is a 100% mineral oil base spray oil, especially designed for increasing the deposition and penetration of agricultural tank mixes. F-COAT is especially adequate for heavy fungicide programs such as the ones used for protection against black sigatoka in banana and plantain farming, and "rust" in coffee protection.

SIL-COAT is a unique high technology non-ionic wetter, spreader and penetrant adjuvant, composed of a proprietary blend of organosilicones and soy methyl esters. SIL-COAT is especially designed for the banana and plantain crop industry to provide superior deposition, adhesion and penetration for aerial fungicide spray programs, reducing stress compared to mineral oil based spray products. SIL-COAT can be used at much lower rates than conventional surfactants and adjuvants.

ACCESS

Access is a blend of adjuvant technologies designed to be used with systemic fungicides, PGR's, and insecticides. It is a non-ionic foliar adjuvant that serves as an activator, penetrant, antidrift, and deposition aid product all in one. Access will also safely buffer tank pH to help prevent alkaline hydrolysis.
Typical rate: 1-2 pt / 100 gal.
Strategy of use: Foliar Adjuvant for Systemic Chemistries
Features and Benefits: A blend of lecithin and penetrating agents designed to enhance the efficacy and on-target application of systemic chemistries while buffering tank mix pH to prevent alkaline hydrolysis.

SPIKER

Spiker is designed for use with pesticides when the addition of a non-ionic surfactant is recommended. Spiker is a proprietary blend of methylated seed oil, lecithin, emulsifiers and surfactants. Spiker has a neutral pH and contains a proprietary elicitor of S.A.R. (Systemic Acquired Resistance) which works together with systemic chemistries to enhance plant protection.
Typical rate: 1-4 pt / 100 gal.
Strategy of use: Foliar Adjuvant and Synergist for Systemic Chemistries
Features and Benefits: Increases adhesion and spreading of liquid sprays. Enhances uptake and efficiency of systemic plant protection products. SAR Elicitor enhances plant defense.

SIL-TEX

SIL-Tex is a blend of organosilicone-based spreaders and latex-based stickers. This combination of high-performance chemistries ensures unmatched spreading and leaf coverage combined with superior stick and rain-fastness. SIL-Tex can enhance pesticide performance by ensuring droplet retention and reduce pesticide wash off in both low and high volume spray applications.
Typical rate: 8-32 oz / 100 gal.
Strategy of use: Spreader & Sticker for Systemic Chemistries

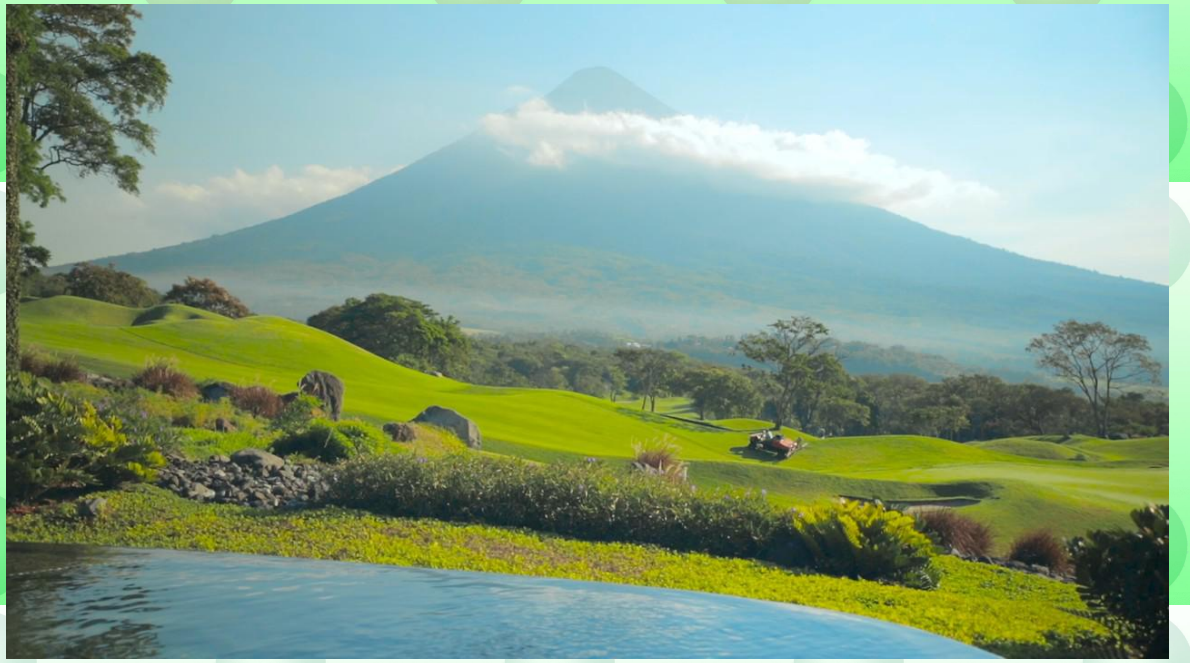
Features and Benefits: Superior spreading and sticking, rainfast in 30 minutes, enhances coverage and droplet
retention of pesticides.

AMS-DC

AMS-DC is an ammonium sulfate based drift control agent. Containing a polymer-based drift control agent, AMS-DC will reduce spray tank pH and combat hard water situations, while helping to ensure on-target deposition of pesticides.
Typical rate: 1-2.5 gal / 100 gal.
Strategy of use: Drift Control, Tank Buffer
Features and Benefits: Reduce the potential for drift and off-target pesticide application while buffering spray tank
pH and reducing alkaline hydrolysis.

SME

SME Concentrated soy methyl esters (methylated seed oil) with emulsifiers. Designed to reduce drift, enhance droplet retention, and facilitate greater plant uptake.
Typical rate: 1-2 pt / acre
Strategy of use: Foliar Adjuvant for Systemic Chemistries
Features and Benefits: Low use rate. Enhanced drift reduction, coverage, and droplet retention for applications
where label specifies the use of an MSO.



SURFACTANTS

QUADRANT

Quadrant is a soil surfactant designed for injection into irrigation systems for short-term moisture management. Quadrant is a blend of 4 polymers in a precise ratio to encourage uniform wetting, increase moisture penetration, and enhance moisture retention for about two weeks. Quadrant will increase moisture delivery to the root system, reduce localized dry spots, and increase the efficiency of irrigation.
Typical rate: 1-2 qt / 100 gal.
Strategy of use: Irrigation / Injection Surfactant
Longevity: 10-14 days
Features and Benefits: Four polymer blend with 30% total active ingredients designed to enahnce penetration and
uniform hydration, improve rewetting, and moisture holding.

Inv-AID

Inv-AID Pelletized Wetting Agent is a non-foaming pelletized soil surfactant with 100% active ingredient designed for spot treatment of hydrophobic areas and "hot spots" on greens. Designed for applications in standard hand-watering guns, Inv-AID is safe to apply on greens, will not crumble during use, and will easily treat two greens per pellet.
Typical rate: One pellet will treat at least two greens
Strategy of use: Spot Treatment
Features and Benefits: Low foaming, 100% active ingredient formula with excellent pellet integrity, a high degree of
turf safety, and superior wetting properties.

HYDRA

Hydra is a three-polymer blend soil surfactant designed to maintain proper moisture conditions in the soil and to prevent the development of LDS and hydrophobic conditions. When used as part of a regular maintenance program for tees and greens, Hydra helps ensure quality playing conditions, balanced soil moisture, rapid re-wetting, and excellent turf safety.
Typical rate: 6 oz / 1,000 ft2
Strategy of use: Preventative / Maintenance
Longevity: 30 days
Features and Benefits: Three polymer blend with 100% total active ingredients designed to enahnce penetration and uniform hydration, improve rewetting, and moisture holding.

SUPREME PLUS 80-20, SUPREME PLUS 90-10

Supreme Plus 80-20, Supreme Plus 90-10 Supreme Plus surfactants are
designed for use with pesticides to enhance wetting and coverage. Available in both 80% and 90% active ingredient concentrations, both Supreme Plus formulations contain surfactant as well as humectant chemistries. This unique combination enhances pesticide coverage while at the same time enhancing uptake of the pesticide by utilizing available moisture.

Typical rate: 1-4 pt / 100 gal.
Strategy of use: Pesticide Surfactant
Features and Benefits: Combination of both surfactant and humectant technologies to help enhance coverage and uptake of pesticides.

TRIAD

Triad is a blend of three high-performance branched polymers designed for unmatched soil surfactant longevity. This unique chemistry is extremely safe for applications on cool and warm season turf. Triad is perfect for fairways and areas that have limited access where turf managers would prefer to make only one or two applications a year. Triad delivers uniform hydration, penetration, and rewetting with extremely low risk of phytotoxicity.
Typical rate: 8 oz / 1,000 ft2 (two applications)
Strategy of use: Long Term Preventative
Longevity: 90-120 days
Features and Benefits: 100% active ingredient designed for long-term uniform hydration, rapid re-wetting, and moisture penetration without risk of phytotoxicity or spongy turf after application.

TYPHOON

Typhoon is a 100% active ingredient product formulated to deliver uniform hydration, root zone moisture retention, and rapid rewetting, yet delivering a firm, dry playing surface. This is a premium product for turfgrass managers who want a very high performance putting surface. Typhoon is formulated with capped triblock polymers as well as penetrating agents to deliver ultimate moisture management while moving excess moisture down.
Typical rate: 6 oz / 1,000 ft2
Strategy of use: High Performance Preventative
Longevity: 30 days
Features and Benefits: Two tri-block polymer blend to deliver a superior playing surface with rapid re-wetting and
uniform moisture characteristics.

ERADICATE

Eradicate is a blend of soil wetting agents combined with solvent technologies intended to treat existing problems of localized dry spot and hydrophobic soils as a corrective strategy. While the solvents remove organic compounds and waxy coatings on soil particles that are responsible for LDS, the surfactant helps restore normal hydration characteristics to the soil. As opposed to a short-term treatment strategy that addresses only the symptoms of hydrophobic areas and LDS, Eradicate actually works to correct the causal effects of LDS.
Typical rate: 6 oz / 1,000 ft2
Strategy of use: Problem Areas Corrective
Longevity: 30 days
Features and Benefits: Organic solvents combined with soil surfactants helps to remove hydrophobic soil coatings while restoring normal hydration characteristics in problematic areas and localized dry spots.

SPECIALTY PRODUCTS

Acidix

Non-corrosive, non-hazardous, non-irritating, non-fuming acidifying solution for neutralization of bicarbonates in the soil and spray tank water. Acidix is safe enough for direct application as a tank mix.
Typical rate is 16 - 32 oz. / acre

Pinpoint

Spray tank acidifier combined with an indicator solution. Tank mix will change colors based upon solution pH. Prevents alkaline hydrolysis and mitigates spray tank bicarbonates. Typical rate is 4 - 8 oz. / 100 gallons of water

INsuraNce Urease Inhibitor

When blended with urea-based fertilizers, INsuraNce urease inhibitor reduces nitrogen loss by hindering the conversion of nitrogen to ammonia and carbon dioxide, giving crops more time to absorb vital nutirents and preventing potentially harmful runoff and volatilization. This can mean greater yields and reduced costs with a cleaner, safer environment.

N-pHluence 15 (15-0-0 + 16% S)
& N-pHluence 28 (28-0-0 + 9% S)

Urea-sulfuric acid designed as an irrigation line cleaner, pH reducer, soil water conditioner, and a supplemental source of nitrogen and sulfur. N-pHluence contains 15% urea nitrogen and 16% sulfur, or 28% urea nitrogen and 9% sulfur while providing a safer alternative to pure acid products.

- Neutralize the negative effects of high bicarbonate and carbonate levels in irrigation water and the soil solution
- Lower pH of irrigation water and soil water
- Maintain the solubility of Ca and Mg in irrigation and soil water
- Dissolves calcium carbonate and magnesium carbonate salts on the surface (crusts) and in the soil profile
- Improve the ability of soil-applied Ca-based amendments to produce soluble Ca
- Improve percolation and infiltration characteristics of the soil profile
- Help keep irrigation lines and emitters clean

Exodus Spray Equipment Cleaner

Exodus is a cleaning compound combined with detergents designed to remove pigment stains, residues, pattern indicators, and other stains on equipment and poly spray tanks. Exodus can be used as a ready-touse cleaner for tough stains on tanks and equipment or can be diluted and used on more recent stains and for general cleaning.

pHactor

Spray tank adjuvant and tank mix buffer derived from citric acid and defoaming agents. Using pHactor will reduce spray tank pH and will help prevent alkaline hydrolysis of pesticides. Typical rate is dependent upon water quality and target pH.

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