Foliar Nutrition, Biostimulants, Specialty Chemicals, Wetting Agents & Surfactants, Contract Packaging, and Contract Formulating

Surfactant & Adjuvant Products Group

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**Surfactants**

**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.
*Longevity:* 10-14 days

**Features and Benefits:** Four polymer blend with 30% total active ingredients designed to enhance penetration and uniform hydration, improve rewetting, and moisture holding.

**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

**Features and Benefits:** Low foaming, 100% active ingredient formula with excellent pellet integrity, a high degree of turf safety, and superior wetting properties.

**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
*Longevity:* 30 days

**Features and Benefits:** Three polymer blend with 100% total active ingredients designed to enhance penetration and uniform hydration, improve rewetting, and moisture holding.

**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.

**Features and Benefits:** Combination of both surfactant and humectant technologies to help enhance coverage and uptake of pesticides.
**Surfactants**

**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)
**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** 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
**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** 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
**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.
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, anti-drift, 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.  
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 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.  

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

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.  
Features and Benefits: Reduce the potential for drift and off-target pesticide application while buffering spray tank pH and reducing alkaline hydrolysis.

Double Header is a non-ionic spray adjuvant that contains organosilicone, methylated seed oils and emulsifiers. Designed to maximize spreading and wetting as well as enhancing deposition and penetration of applied chemistry. Double Header is a particularly good choice for use with biological and biorational pesticides, especially those containing Neem Oil / Azadirachtin or Bacillus Thurengensis.  
Typical rate: 1-2 pt / 100 gal.  
Features and Benefits: Enhanced spreading, wetting, and uniformity of spray application.

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