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Agro Green









Natural-Based Solutions and Performance Products for Effective Weed Control, Insect Control and Plant Health

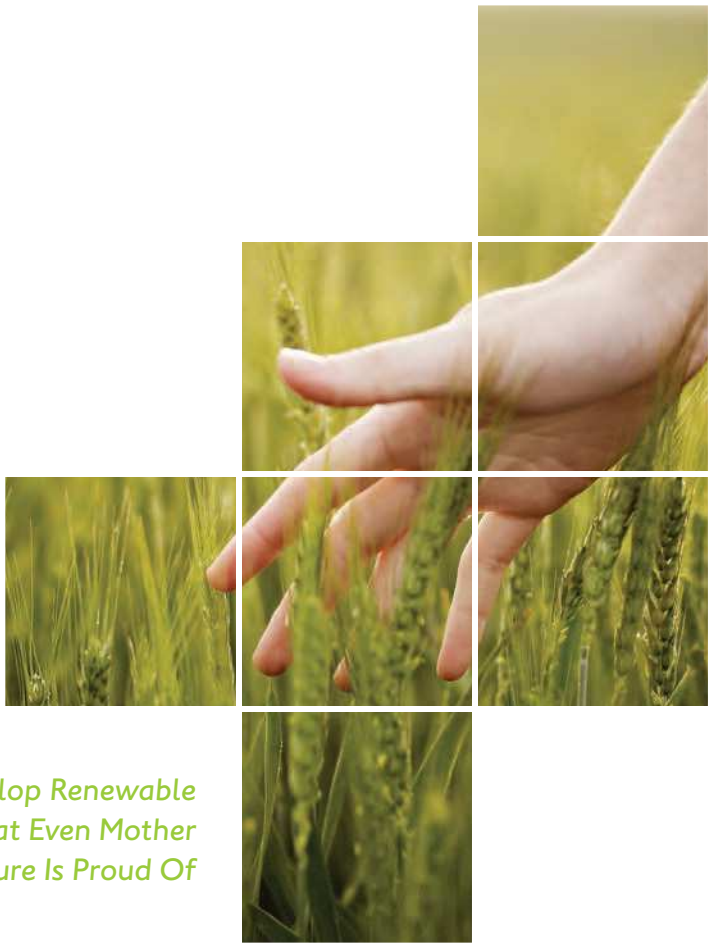
Fatty Acid Science & Technology (F.A.S.T.) Experts™ for Agriculture

Emery Oleochemicals

Natural-Based Solutions to Meet Everyday Challenges

Founded in 1840, Emery Oleochemicals has a rich history developing and manufacturing natural-based chemicals made predominantly from natural oils and fats. Emery Oleochemicals' philosophy of 'Creating Value' for our customers is evident through our wide-ranging product portfolio that caters to the diverse and unique needs of an evolving marketplace.

Today, over 180 years later, Emery Oleochemicals is known for world-leading, in-depth technical expertise and the production of high-quality specialty chemicals. Through our global operations that span North America, Europe and Asia Pacific, we provide our customers with best-in-class sustainable solutions recognized for their ability to deliver outstanding technical performance.



We Develop Renewable Solutions That Even Mother Nature Is Proud Of

Your Preferred Partner for Effective Solutions for Agriculture

Emery's Agro Green business team is committed to being your preferred agriculture solutions partner for high-performance, natural-based products that include weed control, insect control, plant health and performance products. We are passionate about developing products that are effective, environmentally-friendly and sustainable.

CONTACT US IF YOU WANT TO ENHANCE YOUR EXISTING PORTFOLIO AND FORMULATIONS, OR IF YOU ARE INTERESTED IN A PRIVATE LABEL RELATIONSHIP.

Due to the unique nature in which fatty acids interact with the cuticle of the plant or weed, they allow other systemic compounds to enter and translocate more quickly and efficiently. This can be extremely important when looking to achieve enhanced weed control with products such as glyphosate. Additionally, this same concept applies to systemic insecticides and fungicides where the addition of the fatty acids aids the uptake and as a result, enhances the performance of the products. The key to this unique concept is the appropriate application rate. This mode of action is unique to fatty acids and results in real benefits to growers and end-users.

Driving Innovation Through Fatty Acid Science & Technology

Known as the Fatty Acid Science and Technology (F.A.S.T.) Experts™ for agriculture, Emery's Agro Green business platform specializes in formulating unique, natural-based products for weed control, insect control, and plant health. Our product portfolio also includes performance products – green solvents, surfactants, adjuvants and inerts – that assist the formulator in developing more efficacious active ingredients through the use of combinations of wetters, spreaders, stickers and solvents.

Beginning with natural-based feedstock, our proprietary development process includes rigorous in-house lab formulation development and testing as well as collaborative university and field trials to ensure our commercial products meet key market needs; thus providing confidence of performance without compromise.

Due to our extensive formulation and testing protocols, and based on our proven integrated production technology, we are able to create and offer patented technology in the form of both formulated products and customized ingredients. Our active ingredients as well as our fully formulated products have low environmental impact and high application efficacy and are registered with the US EPA.

Confidence of Performance Without Compromise





Our Ongoing R&D Commitment to Meet Market Needs

Guided by an inventive spirit that goes beyond providing high-performance solutions, Emery Oleochemicals is able to help your business deal with the challenges of end users who are increasingly seeking more natural-based solutions. Through our focus on research and technological advancements, we are poised to provide you with differentiated, customizable and innovative solutions.

Supported by our regional Technical Development Centers and a dedicated Product and Application Development lab in the US, our Agro Green business platform can also support both exclusive and joint solutions development efforts with our customers to meet your specific requirements.

Visit www.emeryoleo.com/Agro-Green for more information

Agro Green
Weed Control Solutions

Our EMERION® herbicide is a natural-based, non-selective, contact solution for burn down of weeds and grasses. It is a highly concentrated formulation of ammonium soap of pelargonic acid which strips the waxy cuticle and penetrates the cellular walls.



USES

- Vegetation burn down
- Weed control prior to emergence of plants from seeds or rootstocks
- Dormant or post-harvest sprays
- Sucker control for tobacco
- Pruning and trimming
- Harvest aid and desiccation

BENEFITS

- Visible results are achieved in minutes
- Kills in hours due to rapid desiccation of undesired foliage
- Will not leach into the subsoil, migrate, volatilize or translocate
- 4 hour restricted-entry interval (REI)
- No restricted use limitations

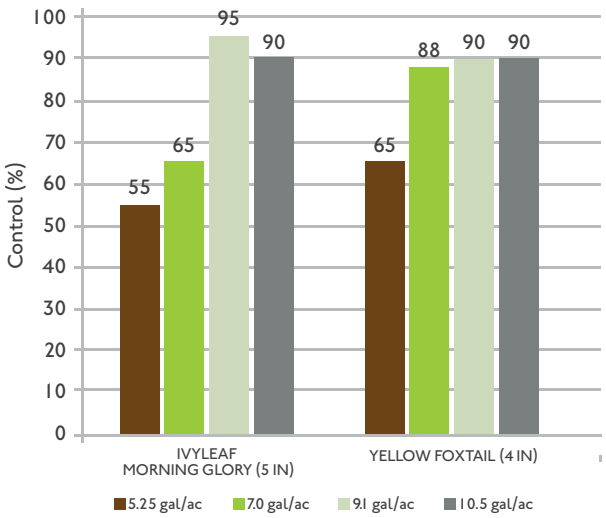
EMERION® W 40 SL ONC, W 40 SL OG and W 5 RTU OG are organic approved for Turf & Ornamental and Home & Garden use.

EMERION® W 40 SL, W 40 SL ONC and W 40 SL OG have earned the USDA Certified 100% Biobased Product Label.

Efficacy Data

EMERION® W 40 SL was tested on two different weed species at four different use rates. At 14 days after treatment, excellent control of the grass weed species yellow foxtail was obtained at rates of 7 gallons/acre (10% v/v) and higher. Excellent control of the broadleaf weed species ivyleaf morning glory was obtained at EMERION® W 40 SL rates of 9.1 gallons/acre (12.5% v/v) and higher.

Weed Control with EMERION® W 40 SL at 14 days after Treatment



EMERION® W 40 SL applied in 70 gal/ac spray volume

Agro Green
Insect Control Solutions



Our EMERION® insect control products contain natural compounds such as fatty acids, essential oils and other naturally-occurring insecticides used for general insect control. They control pests by repelling insects on infested plants in specialty agricultural markets, professional pest control markets and commercial livestock applications. Formulation options include liquid, dust, mineral oil and silicone oil.

USES

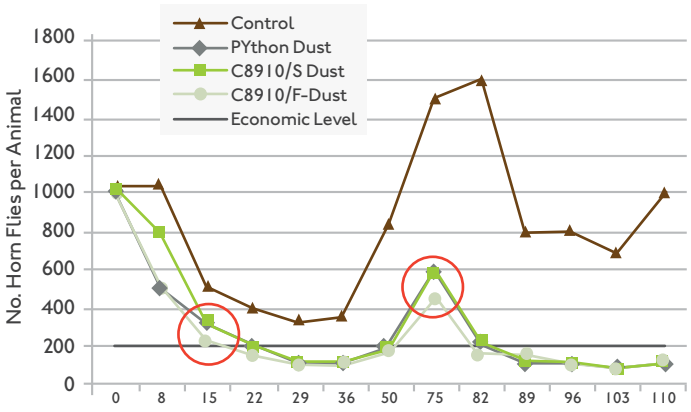
- Insect control for large animal and specialty agriculture, with demonstrated efficacy against soft-bodied insects such as aphids, whiteflies, thrips, flies, ticks and cattle lice
- Resistance management
- Combinations with conventional insecticides
- Indoor and outdoor applications

BENEFITS

- Effective insect repellent
- 4 hour restricted-entry interval (REI)
- Tolerance exempt
- No known resistance
- Application flexibility
- Bee friendly

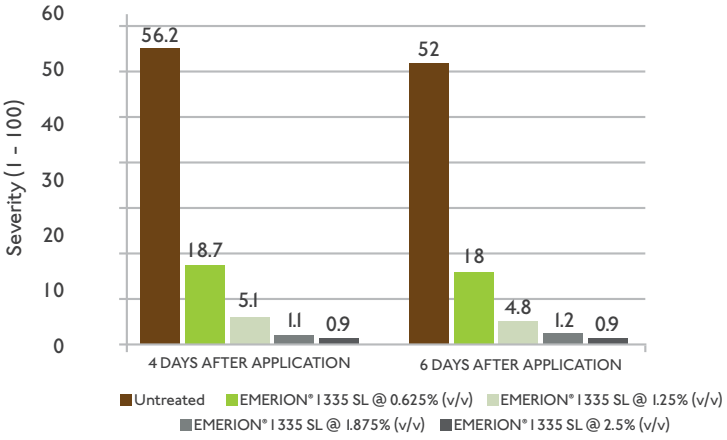
Efficacy Data

South Texas Dust Bag Trial - Efficacy of Topical Cattle Treatment against the Horn Fly (Haematobia ittitans (L)



Days after start of study (bags empty at day 50, recharged at day 75)

Day Lily Aphid Severity with EMERION® I 335 SL



EMERION® I 335 SL applied in a spray volume of 3 gallons/1000 ft² (12 liters/100 m²)

EMERION® 8200 vs. PYthon® Dust Trial

Trial results show significant speed of control at week 2 with use of EMERION® 8200 and also higher residual effect after 3 weeks of non-treatment as indicated by the red circles in the chart above.

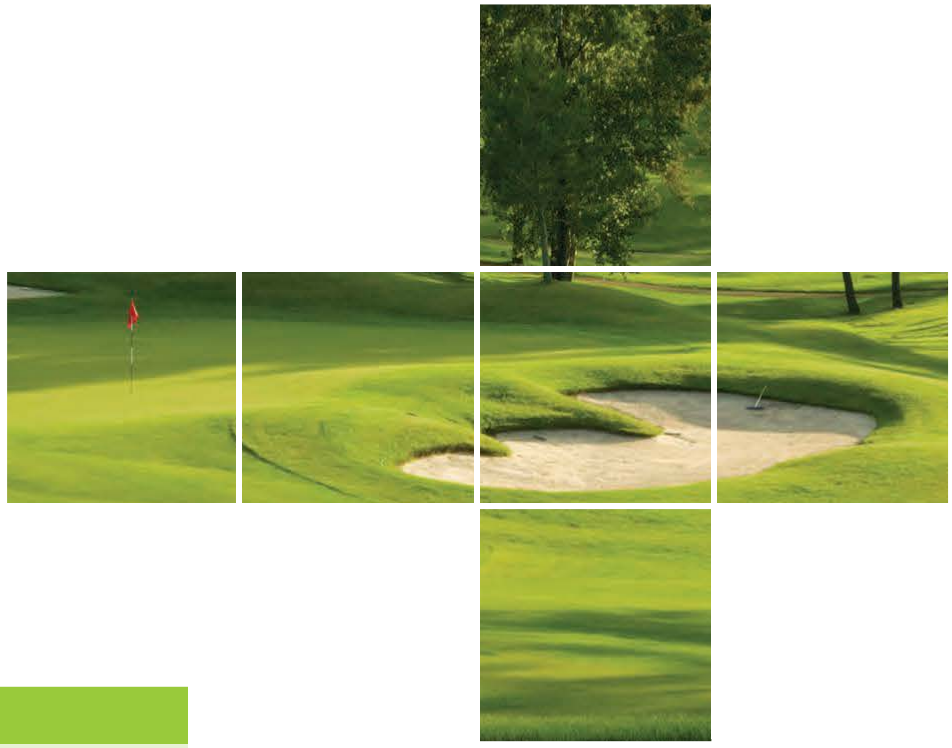
PYthon is a registered trademark of Y-Tex Corporation

EMERION® I 335 SL – Ammonium Nonanoate as an Insecticide

EMERION® I 335 SL was tested against cotton aphids on lilies in a greenhouse setting at four dilutions rates. Good mortality was obtained at all four rates with the two highest rates providing the best control. The two lower rates provided acceptable control.

Agro Green Performance Products

Our EMERION® performance products provide a performance boost to agricultural formulations and are natural-based alternatives to conventional (petroleum-derived) additives. These products are designed to improve the efficacy of formulated products by providing wetting, penetration and sticking in agricultural applications.



USES

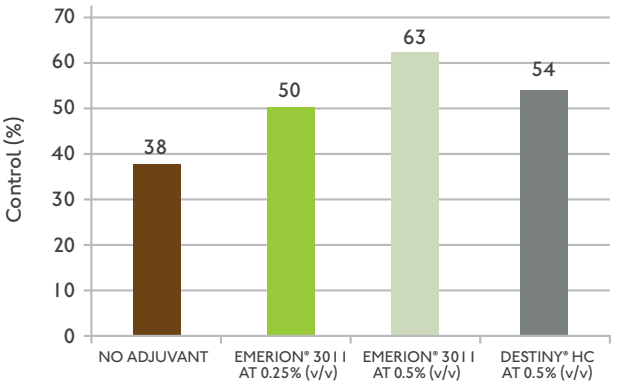
- Adjuvant (tank mix additive) and formulation component

BENEFITS

- Natural-based alternative to conventional petroleum-derived analogs
- Reduction in product hazard classification
- Low toxicity, low volatility and rapid biodegradability
- Provides wetting, spreading, penetration or sticking of active ingredient onto targeted surface
- Improves efficacy of active ingredient compared to active use alone
- May result in less active ingredient applied per acre and/or reduction of water

Efficacy Data

Ivyleaf Morning Glory Control with Roundup PowerMAX® Plus Laudis® at 27 Days after Treatment



EMERION® 3011 enhanced Roundup PowerMAX® plus Laudis® control of ivyleaf morning glory more than Destiny® HC at equal concentrations.

EMERION® 3011 gave equal ivyleaf morning glory control at ½ the rate of Destiny® HC.

Roundup PowerMAX is a registered trademark of Monsanto Technology LLC. Laudis is a registered trademark of Bayer. Destiny is a registered trademark of Winfield Solutions LLC.



It works better, NATURALLY!™

OMRI® LISTED | USDA BIOPREFERRED® | LOW IMPACT | SUSTAINABLE

For more information, contact your nearest regional office.

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