





The **BEST** adjuvant technology


 **To The Plant** — *Drift Reduction with Performance-Sized Droplets*


 **On The Plant** — *Droplet Retention by Adhesion & Spreading*


 **In The Plant** — *Increased Penetration Without Cuticle Disruption*





-  Acidification properties reducing spray solution pH, preventing pesticide degradation and maximizing performance
- A low-foaming surfactant that will not cause foaming problems in the spray tank




-  Neutral pH - ideally used with sulfonyl urea herbicides and other pesticides that require a pH 7 (neutral) or higher
- Contains an antifoam/defoam component and will not cause foaming problems in the spray tank
- 100% active and odorless























-  MSO Concentrate with Leci-Tech provides increased plant uptake vs. standard methylated seed oil formulations
- MSO Concentrate with Leci-Tech provides improved crop safety vs. standard methylated seed oil formulations




-  Contains an antifoam/defoam system
- Low use rates make Valid cost effective

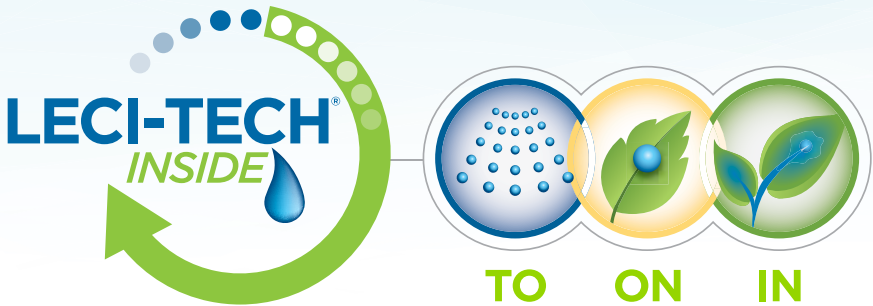
LECI-TECH Family of Products

Product	Acidifier	Antifoam/Defoam	Deposition Aid/Sticker	Drift Control	Penetrant	Spreader	Water Conditioner	OTHER-see description	Description
									LECI-TECH® non-ionic penetrating surfactant with pH reduction
									LECI-TECH® 100% active surfactant, neutral pH
									LECI-TECH® blend of modified vegetable oil and surfactant
									LECI-TECH® deposition aid, drift reduction and defoamer

Don't forget the Water Conditioner...



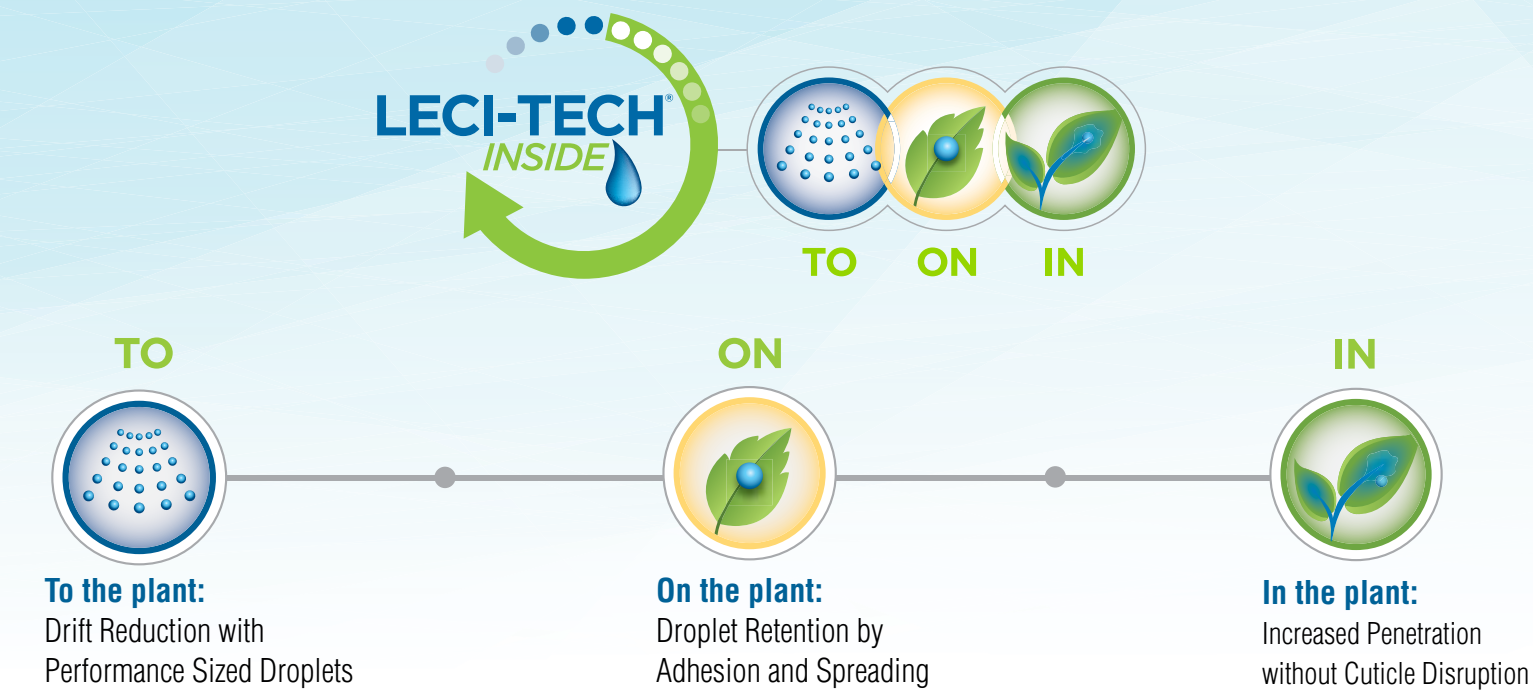
A water conditioning agent for use with agricultural chemicals. Designed for hard water conditions, this liquid formulation locks up hard water cations allowing maximum herbicide performance. Compatible with all formulations of glyphosate.



Performance made easy.



THE BEST ADJUVANT TECHNOLOGY: TO THE PLANT, ON THE PLANT & IN THE PLANT



Now that's performance made easy.

What is Leci-Tech®?

Lecithin is a natural-based product derived from soybean seeds and is the workhorse of the **Leci-Tech**® product line. Loveland Products has worked with lecithin for over 35 years and has developed numerous applications that provide benefits above any current technology. Products containing **Leci-Tech** technology provide a unique chemistry that works in a variety of row crop, vegetable, small grain, turf and ornamental and non-crop applications. **Leci-Tech** allows for lower use rates and crop safety, is biodegradable and is the best adjuvant technology.

Key PERFORMANCE factors:

To the Plant —  
Drift Reduction with Performance Sized Droplets

One of the many unique features of **Leci-Tech** is its ability to reduce drift. Over the years, **Leci-Tech** has consistently been able to show a significant reduction of driftable fines (under 150um) when using both older XR nozzle technology, and also when using newer drift reduction technology like Air Induction nozzles. **Leci-Tech** also decreases extra large droplets (over 500um), which are susceptible to shattering, bouncing, & ineffective droplet retention resulting in highly variable & ineffective performance. Most importantly, **Leci-Tech** increases the percent of ideal or “**performance sized**” droplets.

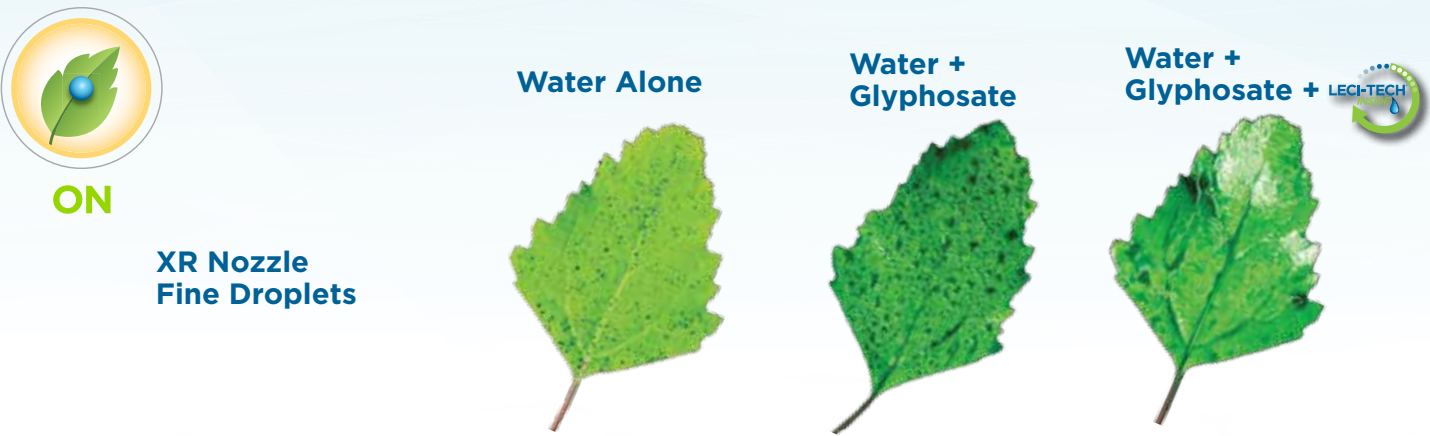


Demonstrates in simulated wind, coarse droplets of: water alone (left), water with glyphosate (middle), and water with glyphosate and Leci-Tech (right).

On the Plant —  
Droplet Retention by Adhesion and Spreading

Coverage is one of the primary objectives with many pesticide applications. The **spreading** and **adhesion** properties of **Leci-Tech** are ideal for maximizing contact area and keeping droplets on the target. As the droplet makes contact with the target, the combination of creating “**performance sized**” droplets with the **adhesion** properties of **Leci-Tech** ensures that the droplet hits the target and stays there to provide **more consistent control**.

Bigger droplets can aid in reducing driftable fines but with bigger droplets, adhesion and spreading are even more critical to maximize spray solution that stays on the target.



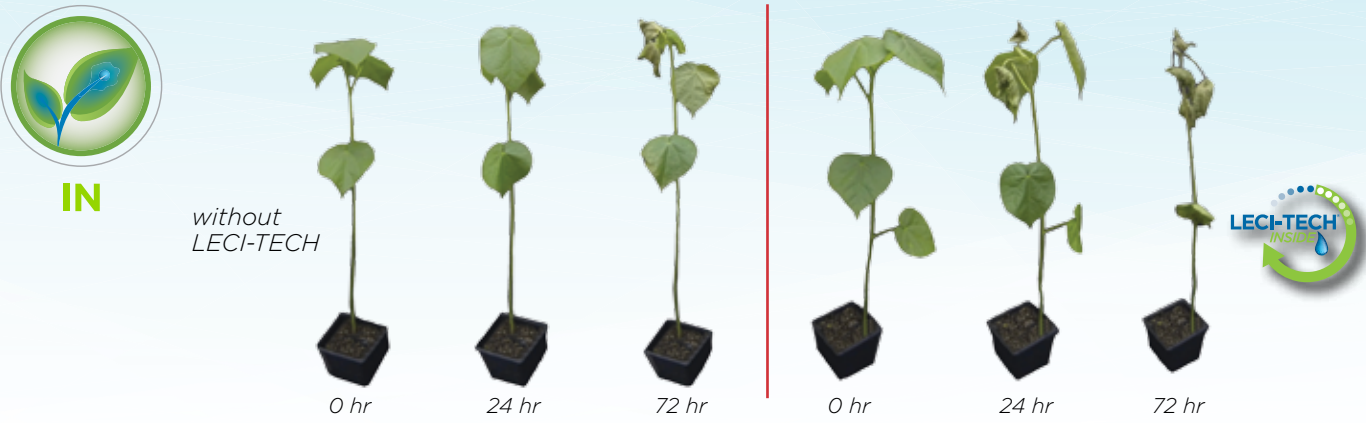
Demonstrates the positive benefits of Leci-Tech Chemistry to aide in coverage with fine droplets, on the waxy leaf surface of common lambquarters. blue dye was used for a visual indicator.



Demonstrates the effect of Leci-Tech chemistry on spray solutions by retaining more of the “performance sized” droplets on the waxy leaf surface of Common Lambsquarters. Clay solution was used for a visual indicator.

In the Plant —  
Increased Penetration without Cuticle Disruption

To **maximize performance** of both systemic and contact pesticides, it is critical to ensure penetration through the leaf cuticle. This is especially important when plants are under environmental stress. Not only does **Leci-Tech** increase penetration, but it does so without cuticle disruption of the leaf allowing for greater uptake. **Leci-Tech** allows the formation of micelles to occur at lower use rates than traditional surfactants, providing quicker uptake with no impact on crop safety.



Demonstrates herbicide on velvetleaf up to 72 hours after treatment (HAT). The first 3 pictures are herbicide alone. The last 3 pictures have a Leci-Tech adjuvant added.



Demonstrates the effect of Leci-Tech chemistry on penetration and translocation of glyphosate into and throughout the Common Lambsquarters plant.

Additional Leci-Tech Benefits:

- With the combination of hydrophilic and lipophilic elements, **Leci-Tech** works well with both water-soluble and oil-soluble pesticides or active ingredients.
- **Leci-Tech** does **NOT** compromise **nozzle performance** like many other products that control drift by thickening the spray solution.
- **Leci-Tech** will also reduce evaporation, allowing for greater uptake.