



# Vastlan™

## SPECIALTY HERBICIDE TECHNICAL BULLETIN

Vastlan™ specialty herbicide is a new generation formulation of a reliable industry standard, Garlon® 3A specialty herbicide. The advanced carrier system in Vastlan allows for a higher load of active ingredient, while delivering a significant improvement in the products' overall safety and signal word, which reduced the potential for irreversible eye damage when compared to Garlon 3A. The Vastlan label has a "Warning" signal word compared to the "Danger" signal word on Garlon 3A. The higher loading of active ingredient in Vastlan allows vegetation managers to reduce the volume of herbicide handled by 25%, ensuring greater efficiencies in shipping, handling, mixing and triple rinsing of containers. Vastlan will also be available through the Continuum system, allowing for the additional benefits of closed system handling and custom blending with other herbicides and adjuvants.

### Customer Q&A

#### Is Vastlan an amine or an ester formulation?

- Vastlan is an amine but is formulated with a patented, quaternary ammonium salt carrier system. Vastlan will be characterized as "essentially non-volatile", the lowest volatility rating recognized by the EPA.

#### What makes Vastlan different from Garlon 3A?

- No difference in efficacy; Vastlan provides the same level of weed and brush control you expect from Garlon 3A. Several years of testing has demonstrated bioequivalency between the two products.
- An improved signal word. Vastlan label carries a "Warning" signal word compared to a "Danger" signal word commonly displayed by triethylamine formulations of triclopyr.
- Vastlan contains 4 pounds of acid equivalent of triclopyr per gallon vs. 3 pounds of acid equivalent per gallon in Garlon 3A. This means that vegetation managers can handle 25% less material to achieve equivalent control of weeds and brush.
- Just like Garlon 3A, Vastlan will be labeled for numerous rights-of-way applications including aquatic areas. It will also carry a range & pasture label which allows for treatment of areas to be hayed or grazed.

#### What tank mixing partners are recommended to be used with Vastlan?

- Overall, Vastlan is compatible with most common tank mixes that Garlon 3A was combined with in the past.
- Research has demonstrated that tank mixes with Milestone® specialty herbicide or Opensight® specialty herbicide have delivered superior brush control when compared to other tank mixes commonly used in vegetation management.

#### What Personal Protective Equipment (PPE) must applicators and other handlers wear?

- Protective eyewear
- Long-sleeved shirt and long pants
- Shoes plus socks
- Waterproof gloves

#### Common tank mixes to illustrate Vastlan™ utilization where Garlon® 3A has been used previously

##### Terrestrial Mixes:

- Vastlan + Milestone®
- Vastlan + Opensight®
- Vastlan + Milestone + imazapyr
- Vastlan + Milestone + imazapyr + Accord® XRT II
- Vastlan + Opensight + imazapyr + Accord XRT II

##### Aquatic Mixes:

- Vastlan alone
- Vastlan + DMA® 4 IVM + Rodeo®
- Vastlan + imazapyr + Rodeo

**Note:** If tank mixing with glyphosate products, such as Rodeo or Accord XRT II herbicides, mix the Vastlan with at least 75% of the total spray volume desired and ensure Vastlan is well mixed before adding the glyphosate product to avoid incompatibility.

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## Bioequivalency Testing Results

ONE YEAR AFTER APPLICATION RATING COMPARISON TO Garlon® 3A specialty herbicide AT EQUIVALENT RATES					
Product (rate per acre)	Sweetgum	White Oak	Southern Red Oak	Black Cherry	Water Oak
Vastlan™ specialty herbicide (2.0 lbs ae/ac)	=	=	=	=	=
Vastlan (4.0 lbs ae/ac)	=	=	=	=	=
Vastlan (6.0 lbs ae/ac)	=	=	=	=	=



**Veg Management**



For more information about Dow AgroSciences or any of our vegetation management products, visit [VegetationMgmt.com](http://VegetationMgmt.com).