

# Garlon® 4 Ultra specialty herbicide.

## The performance standard for right-of-way vegetation management

The state-of-the-art formulation of Garlon® 4 Ultra specialty herbicide was developed by Dow AgroSciences to deliver enhanced performance on unwanted vegetation along roadsides, industrial rights-of-way and similar noncrop sites. The advanced, patented formulation also helps ensure the continued availability of the workhorse active ingredient triclopyr for professional right-of-way vegetation management.

Garlon 4 Ultra is available exclusively from Dow AgroSciences to meet the changing needs of vegetation management professionals, the public and the environment. The innovative formulation uses a plant-derived solvent as a proactive measure to reduce organic compounds and petroleum distillates, reduce odor and improve overall performance. Dow AgroSciences also has updated and improved the label directions as part of its ongoing stewardship initiative.

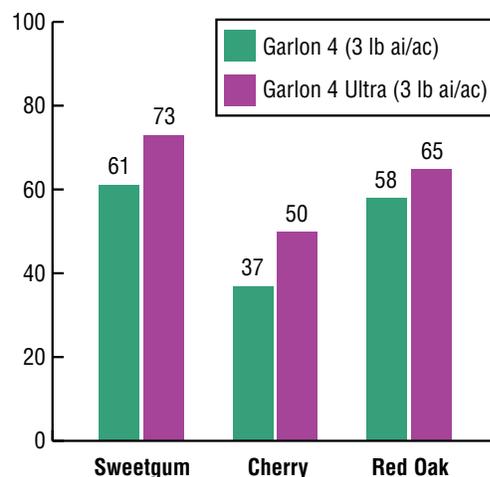
## Improved overall performance

Garlon 4 Ultra is labeled to effectively control more than 55 woody plants and more than 25 tough-to-control annual and perennial broadleaf weeds in noncrop areas that include roadsides, railroads, pipelines, industrial sites, forests and rights-of-way such as power lines. It also is labeled for the establishment and maintenance of wildlife openings and can be used on sites that include grazed areas.

The state-of-the-art formulation, offered exclusively from Dow AgroSciences, is based on methylated seed oil (MSO) as the solvent. In field tests, the Garlon 4 Ultra formulation demonstrated increased efficacy on high-anxiety woody species that include cherry, loblolly pine, mesquite, red oak, sweetgum and Scotch broom.

At the same time, Garlon 4 Ultra provides the same high level of control that users of Garlon® 4 specialty herbicide have come to expect for problem vegetation that include alder, ash, birch, blackberry, ceanothus, chinquapin, clover, dandelion, dogwood, elm, kudzu, maple, oak, poison ivy, ragweed and wild violet.

Efficacy of Garlon 4 Ultra vs. Petroleum Distillate-based Formulations



## Conforms to changing environmental regulations

The advanced Garlon 4 Ultra specialty herbicide formulation uses no petroleum distillates — important for compliance in states that have or are considering mandated reductions of Volatile Organic Compound (VOC) emissions into the atmosphere.

The plant-derived solvent formulation results in a milder scent to help reduce the possible public objections associated with the strong odor of a petroleum-based solvent. The MSO solvent is less phytotoxic to foliage than petroleum-based formulations, and, therefore, the superior control can be attributed to improved uptake of active ingredient into plants.

Because Garlon 4 Ultra uses triclopyr as the active ingredient, the same used in Garlon 4, the two herbicides share an extensive toxicology database and similar toxicology attributes. Garlon 4 Ultra is labeled with a “Caution” signal word.



Dow AgroSciences

**Garlon® 4 Ultra**  
Specialty Herbicide



## Applications for long-lasting brush control

Conventional methods of roadside vegetation control like mowing and trimming remain important for maintenance, but are not always the best option. Steep terrain and railroads can make mowing difficult and even dangerous. Mechanical methods also can encourage resprouting, worsening the problem. Garlon® 4 Ultra specialty herbicide effectively eliminates unwanted brush from labeled application sites to reduce visits by crews and heavy machinery. Garlon 4 Ultra works by limiting the nutrients available to target plants, essentially starving the plant until it is eliminated.

The Garlon 4 Ultra label allows for basal bark, cut-stump and foliar applications. Basal bark applications are hand-sprayed to the lower 15 inches of the bark at the base of the tree or brush. Cut-stump applications are made after tree removal with herbicide application to the cut stump surface and remaining bark to prevent tree resprouting. Foliar application directions allow herbicide application to plant foliage using ground or aerial (helicopter) equipment.

Because Garlon 4 Ultra contains 4 pounds active ingredient per concentrate gallon, applicators familiar with Garlon 4 herbicide will find calibrating finished application rates to be the same. In basal oil mixtures, Garlon® 4 Ultra specialty herbicide mixes as easily as does Garlon 4 and its cold weather handling characteristics are similar to that of Garlon 4. Label directions for Garlon 4 Ultra include tank-mixed with herbicides such as Tordon® 101M, Tordon K and 2,4-D (please refer to the label for specific tank-mix directions).

## Dow AgroSciences stewardship

In conjunction with the Garlon 4 Ultra formulation, Dow AgroSciences has made improvements to the label directions and packaging:

- Registrations for Garlon® 4 Ultra specialty herbicide have been submitted to all 50 states and the District of Columbia.
- For added applicator protection, the label Personal Protective Equipment (PPE) directions include use of chemical-resistant gloves.
- Protective eyewear is no longer required under the label Agricultural Use Requirements.
- Garlon 4 Ultra is packaged in a choice of 2½-gallon containers or easy-to-handle 30-gallon drums made from high-density polyethylene (HDPE) plastic that can be recycled after triple-rinsing, or disposed of after puncturing.
- Garlon 4 Ultra also is available in Continuum™ Prescription Control & Container Management System, exclusively from Dow AgroSciences.

Dow AgroSciences is committed to providing a quality prescription system of vegetation management solutions backed by world-class corporate stewardship and experienced field support. Garlon 4 Ultra is available exclusively from Dow AgroSciences and evidences the company’s ongoing commitment to provide its distributor partners and professional vegetation managers with reliable and quality forestry vegetation management solutions.

For more information on Garlon® 4 Ultra specialty herbicide, contact your Dow AgroSciences vegetation management specialist or visit [www.vegetationmgmt.com](http://www.vegetationmgmt.com). To receive printed materials, please fax your request to Dow AgroSciences at 1-800-905-7326. If you have further questions or require technical assistance, please contact the Customer Information Center at [info@dow.com](mailto:info@dow.com) or call 1-800-262-1196.

## Effective control against a variety of vegetation, including:

- Alder
- Birch
- Ceanothus
- Chinquapin
- Dogwood
- Kudzu
- Loblolly pine
- Maple
- Mesquite
- Poison ivy
- Red oak
- Scotch broom
- Sweetgum

®™Trademark of Dow AgroSciences LLC  
Tordon 101M and Tordon K are federally Restricted Use Pesticides.  
State restrictions on the sale and use of Garlon 4 Ultra apply. Consult the label before purchase or use for full details.  
Always read and follow label directions.

