

Product Bulletin



Valent U.S.A. Corporation
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PHOENIX™ HERBICIDE

EPA Reg. No. 59639-118

Management of Herbicide Tolerant Biotypes

Phoenix Herbicide is labeled for the control of many broadleaf weeds. Several years of testing have documented that *Phoenix* is a very effective tool for managing the control of early season broadleaf weeds. Label language addressing the potential for certain biotypes to develop tolerance to *Phoenix* or other postemergent broadleaf herbicides with the same mode of action (diphenyl ether PPO inhibitors), has been added to the label. This label language follows and is currently being incorporated onto the container label.

“RESISTANCE MANAGEMENT

Phoenix Herbicide is a Group 14 herbicide (PPO inhibitor). Any weed population may contain or develop plants naturally resistant to herbicides in various mode of action classes. Resistant biotypes, such as waterhemp, may eventually dominate the weed population if the same class of chemistry/mode of action herbicides are used repeatedly in the same field or in successive years. These resistant biotypes may not be adequately controlled by herbicides in a mode of action class for which resistance has developed. A gradual or total loss of weed control may occur over time. Other resistance mechanisms that are not linked to site of action, such as enhanced metabolism, may also exist. Appropriate resistance management strategies should be followed.

TO DELAY HERBICIDE RESISTANCE

- Avoid the use of herbicides that have a similar target site mode of action in consecutive years. Other Group 14 herbicides (PPO inhibitors) include acifluorfen (Ultra Blazer®) and fomesafen (Flexstar®, Reflex®). If resistant weed biotypes such as waterhemp are suspected or known to be present, use a tank mix partner with *Phoenix* Herbicide to help control these biotypes, or use a planned herbicide rotation program where other residual broadleaf herbicides having different modes of action are used.
- Herbicide use should be based on an IPM program that includes scouting, record keeping and consideration of cultivation practices, water management, weed-free crop seed, crop rotation and other chemical or cultural control practices.
- Monitor treated weed population for resistance development and report suspected resistance.
- Contact your local extension or crop expert (advisor) for any additional pesticide resistance management and/or IPM recommendations for specific crops and weed biotypes.
- For further information contact Valent U.S.A. Corporation at the following toll free number **1-800-682-5368.**”

Read and follow the label instructions before using.

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2003-PHX-0010 5/03 AV

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