

# **AD 100<sup>®</sup>**

## **Superior Spray Adjuvant For Use With Herbicides**

### **ACTIVE INGREDIENTS:**

Oil of limonene and nonionic emulsifiers ..... 100%

### **STOP-READ LABEL BEFORE USING.**

### **KEEP OUT OF REACH OF CHILDREN**

### **CAUTION**

Harmful if swallowed. Avoid contact with eyes and skin. Wash hands after using.

**FIRST AID:** If swallowed, do not induce vomiting. Call a poison control center or doctor at once. If in eyes, hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

### **GENERAL INFORMATION**

AD 100 is a blend of non-ionic surfactants and oil of limonene. Oil of limonene is a by-product of the citrus industry and, as such, is biodegradable.

AD 100 is especially formulated to maximize the performance of a broad range of herbicides. AD 100 increases contact activity of herbicide sprays, aids in penetration of waxy leaf cuticle, and provides uniform coverage of plant surfaces. It is especially suited to aerial application and applications using low volumes of water. Optimum application and effects, however, can be influenced by the crop, pest, spray equipment, spray volume, pressure, droplet size, spray mixture and environmental factors. Consequently, it is recommended that careful observations of the spray deposit be made and AD 100 concentrations be adjusted accordingly.

### **PREPARATION OF SPRAYS**

To prepare a herbicide spray containing AD 100, fill the spray tank half full with water, add the proper amount of herbicide as directed by its label and then add AD 100, agitating during the entire process. Continue to agitate while filling the tank with water and agitate before and during each application to insure a uniform spray.

### **STORAGE AND DISPOSAL**

#### **STORAGE**

Keep this container tightly closed and do not allow water to be introduced. Do not store near feed or food products. Do not contaminate water by cleaning of equipment or disposal of spray waste.

Distributed by:  
Winfield Solutions, LLC  
P.O. Box 64589, St. Paul, MN 55164-0589

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## DISPOSAL

Do not reuse empty container. Triple rinse, then offer for recycling or for disposal in a sanitary landfill, or by other means approved by State and local authorities.

## DIRECTIONS FOR USE

Sprays containing AD 100 and herbicides should be applied from the same equipment and in the same manner as the herbicides would be applied alone.

**HIGH VOLUME GROUND APPLICATION:** The following recommendations are for the rates of AD 100 in herbicide sprays.

	Per 100 Gallons	Per Acre
Rights-of-Way (Foliar Application)	1-2 qts.	1-3 qts.
Forest Site Preparation	1-2 qts.	1-2 qts.
Aquatic, Surface	1-3 qts.	1-2 qts.
Aquatic, Submerged	1-3 gals.	1-2 gals.
Citrus (Post Directed)	1 qt.	1 qt.
Turf*	1 qt.	1 qt.

\*NOTE: AD-100 should not be mixed with turf herbicides unless the herbicide label indicates it may be mixed with an adjuvant. AD-100 with a turf herbicide should be used only on Bermuda grass.

**LOW VOLUME GROUND AND AERIAL APPLICATION:** The following recommendations are for the rate of AD 100 per acre sprayed.

Rights-of-Way (Foliar Application)	1-3 qts.
Forest Site Preparation	1-2 qts.
Aquatic, Surface	1-2 qts.
Aquatic, Submerged	1-2 gals.
Citrus (Post Directed)	1-2 pts.
Turf*	1-2 pts.

\*NOTE: AD-100 should not be mixed with turf herbicides unless the herbicide label indicates it may be mixed with an adjuvant. AD-100 with a turf herbicide should be used only on Bermuda grass.

For ground application of contact herbicides such as Gramoxone® Extra, use AD 100 at the following rates per 100 gallons of spray mix.

Orchards, Vineyards, Windbrakes, Shade and Ornamental Trees	1-4 pts.
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**NOTE:** When applying aerially, follow pesticide label directions including minimum water volume per acre. Do not substitute AD 100 for water required by the pesticide label.

**PREPLANT BURN DOWN:** AD 100 can be added at a rate of 1 to 2 quarts per 100 gallons of spray with herbicides (i.e. Gramoxone Extra, 2-4D) to kill weeds in preparation to planting with conservation tillage, reduced tillage, no tillage or conventional tillage.

**AQUATIC APPLICATION:** Apply at the rate recommended as described by pesticide label.

**NOTE:** The percent concentration of AD 100 varies with the total volume used per acre. Do not exceed 10% concentration by volume. AD 100 can be used with pesticides other than herbicides and should be used at the rate of 1/4 to 1/2 percent by v/v concentration. Read and follow all information on the label of the herbicide or other pesticides with which AD 100 is used. Do not use AD 100 where the label of the herbicide or other pesticide specifically warns against the use of an adjuvant or spreader-sticker.

Gramoxone® Extra is a Registered Trademark of Syngenta Crop Protection.

#### **Notice of Warranty**

Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use. SELLER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, NOR IS ANY REPRESENTATIVE OF SELLER AUTHORIZED TO MAKE ANY SUCH WARRANTY OR MODIFY THESE TERMS. This warranty does not extend to the storage, handling or use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to Seller, and Buyer assumes the risk of any such storage, handling or use. Seller shall not be responsible for incidental or consequential damages, if any, resulting from a breach of warranty.