3 59639-100	1/13/98	1
U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505C) 401 "M" St., S.W. Washington, D.C. 20460	EPA Reg. Numier: 59639- 100	Date of Issuance: JAN 13 1998
NOTICE OF PESTICIDE: Registration Reregistration	Term of Issuance Conditiona	
(under FIFRA, as amended)	Name of Pesticid Resource 8 Herbicide	0 WP
Name and Address of Registrant (include ZIP Code): Valent U.S.A. Corporation		
1333 North California Blvd., Suite 600 Walnut Creek, CA 94596		
Note: Ghanges in labeling differing in substance from that accepted in a be submitted to and accepted by the Registration Division prior to use a correspondence on this product always refer to the above ESA registration	of the label in comm	registration must ærce. In soy
On the basis of information furnished by the registrant, the above named registered/reregistered under the Federal Insecticide, Fungicide and Rod	dentiçide Act.	
Registration is in no way to be construed as an endorsement or recomment In order to protect health and the environment, the Administrator, on his cancel the registration of a pesticide in accordance with the Act. The with the registration of a product under this Act is not to be construed exclusive use of the name or to its use if it has been covered by others	is motion, may at an acceptance of any n d as giving the regi	time suspend or the suspend or
This product is conditionally register	red in accore	dance with
FIFRA sec. 3(c)(7)(A) provided that you: 1. Submit and/or cite all data requir your product under FIFRA sec. 3(c)(5) when registrants of similar products to submit s	the Agency :	
<ol> <li>Make the following label changes h product for shipment:</li> </ol>	pefore you r	elease the
a. Revise the EPA Registration Number No. 59639-100".	er to read,	"EPA Reg.
b. Within Table C9 (tank mix with at Herbicide), add the phrase "80 WP product name currently reading "A recommending an application rate acre. This will indicate that th appropriate for atrazine wettable 80% active ingredient.	" to the end trazine" and of 0.7 - 1. hese rates a	of the 4 pounds per re
Signature of Approving Official:		"   1 3 1998

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page 2 EPA Reg. No. 59639-100

3. Submit one copy of the revised final printed label for the record before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Joanne I. Miller Product Manager (23) Herbicide Branch Registration Division (7505C) Enclosure

DK:3	05-7546	:HB/P	m23	CONCURRENCES		 
SYMBOL ►	7505C					
SURNAME .	D.KEWY	,			1	
DATE ►	1/12/98					

EPA Form 1320-1 (12-70)

OFFICIAL FILE COPY



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# **RESOURCE<sup>®</sup> 80 WP HERBICIDE**

Active Ingredient Flumiclorac pentyl ester (pentyl [2-c	hloro-4-fluoro-5-(1,3,4,5,6,7-hexah	By Wt.
3-dioxo-2 <u>H</u> -isoindol-2-yl)phenoxy]ac Inert Ingredients* * U.S. Patent No. 4,770,695	cetate)	80%

KEEP OUT OF REACH OF CHILDREN

CAUTION

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SEE BELOW FOR ADDITIONAL PRECAUTIONARY STATEMENTS

ACCEPTED with COMMENTS In EPA Letter Dated

JAN 13 1998

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NET WEIGHT 1 Lb. 10 Oz. (8/3.25 OUNCE PACKETS) Under the Federal Insectieide, Fundicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 59639-100

### PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS & DOMESTIC ANIMALS

**CAUTION:** Causes moderate eye irritation. Harmful if swallowed, absorbed through skin or inhaled. Avoid contact with skin, eyes or clothing. Avoid breathing dust. Keep out of reach of children. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse. **STATEMENT OF PRACTICAL TREATMENT:** 

If in eyes: Flush eyes with plenty of water. Call a physician if irritation persists.<sup>44</sup>

If swallowed: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. If person is unconscious, do not give anything by mouth an do not induce vomiting.

If on skin: Wash with plenty of soap and water. Get medical attention.

If inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-tomouth. Get medical attention.

Note to Physicians: Emergency Information - call 1-800-892-0099.

### Personal Protective Equipment (PPE):

Applicators and other handlers must wear: long-sleeved shirt and long pants, waterproof gloves, and shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

### USER SAFETY RECOMMENDATIONS

### Users should:

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- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
   Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### ENVIRONMENTAL HAZARDS

This product is toxic to shrimp. Keep out of lakes, ponds or streams. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption.

Do not apply during wind speeds of greater than 10 miles per hour or during inversions. Local regulations permitting, an inversion can be identified by discharging a column of smoke. During an inversion, the column of smoke will rise and then abruptly level off. Sometimes during an inversion, the smoke can be seen to drop below the height at which the leveling off occurred. In the absence of an inversion the smoke will continue to rise and disperse into the atmosphere.

### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

## READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment and restrictedentry interval. For any requirements specific to your State, consult the agency in your State responsible for pesticide regulation.

Do not enter or allow workers entry into treated areas during the restricted-entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, waterproof gloves and shoes plus socks.

### DISCLAIMER, CONDITIONS OF SALE, LIMITED WARRANTY AND LIMITATION OF LIABILITY

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IMPORTANT: Read the entire Label including this Disclaimer, Limited Warranty and Limitation of Liability before using this product. If the terms are not acceptable, return the unopened product within 15 days of purchase.

### **RISKS OF USING THIS PRODUCT**

HISKS OF USING THIS PRODUCT It is impossible to eliminate all risks associated with the use of this product. Such risks include, but are not limited to, injury to plants and crops to which this product is applied, lack of control of the target pests or weeds, resistance, injury caused by drift, and injury to rotational crops caused by carryover in the soil. Such risks of crop injury, non-performance or other unintended consequences are unavoidable and may result because of such factors as weather, soil conditions, moisture conditions, irrigation practices, presence of other materials, cultural practices or the manner of use or application, all of which are factors beyond the control of Valent. All such risks shall be assumed by the Buyer. Valent shall not be responsible for losses or damages resulting from use of this product in any manner not set forth on the label. User assumes all risks associated with the use of this product in any manner or under conditions not specifically directed or approved on the label.

approved on the label.

### LIMITED WARRANTY

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Valent warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the label, under average use conditions, when used strictly in accordance with the label and subject to the Risks of Using This Product described above.

DISCLAIMER OF ALL OTHER WARRANTIES VALENT MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. No agent or representative of Valent or Seller is authorized to make or create any other express or implied warranty.

LIMITATION OF LIABILITY In no event shall Valent or Seller be liable for any incidental, consequential, indirect or special damages resulting from the use or handling of this product. THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE MAXIMUM LIABILITY OF VALENT OR SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE RETURN OF THE PURCHASE PRICE OF THIS PRODUCT OR, AT THE ELECTION OF VALENT OR SELLER, THE REPLACEMENT OF THIS PRODUCT.

### NO AMENDMENTS

Valent and Selfer offer this product, and Buyer and User accept it, subject to the foregoing Disclaimer, Conditions of Sale, Limited Warranty and Limitation of Liability, which may not be modified by any oral or written agreement. PROMPT NOTICE OF CLAIM

Valent must have prompt notice as soon as Buyer or User has reason to believe they may have a claim (not to exceed twenty-one days from date of application) so that an immediate inspection of the affected property and growing crops can be made. Unless Buyer and Users shall promptly notify Valent of any claims, they shall be barred from obtaining any remedy.

TANK MIXES

NOTICE: Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor.

Read and follow the entire label of each product to be used in the tank mix with this product.

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### **GENERAL INFORMATION**

### Do not apply by air.

### Do not apply this product through any type of irrigation system.

RESOURCE is a selective herbicide for postemergence control of susceptible broadleaf weeds in soybeans and field corn. RESOURCE 80 WP can be used on field corn grown for commercial seed production. However, do not apply RESOURCE 80 WP to seed corn without first verifying with your seed corn supplier the RESOURCE 80 WP selectivity on your inbred line. This precaution will help avoid potential injury on sensitive varieties. Use on inbred lines or other genetic material used in a breeding program is done at the sole risk of the user. Do not use on popcorn or sweet corn. RESOURCE 80 WP is formulated as an 80 percent wettable powder. Good coverage of actively growing weeds is essential for maximum weed control. Addition of an EPA approved spray adjuvant is required when RESOURCE 80 WP is applied as a stand-alone treatment and for most recommended tank mixes; see Tables S1 through S11 and Tables C1 through C11 for specific adjuvant recommendations.

For best results, RESOURCE 80 WP should be applied to actively growing weeds within the growth stages indicated in this label. Applying RESOURCE 80 WP under conditions that do not promote active weed growth will reduce herbicide effectiveness. Do not apply RESOURCE 80 WP when the crop or weeds are under stress due to drought, excessive water, extremes in temperature, or low humidity. Weeds under stress tend to become less susceptible to herbicidal action.

Under conditions of normal weed growth, RESOURCE 80 WP is rainfast 1 hour after application.

### WATER SOLUBLE PACKAGING

The outer protective bag contains eight 3.25-ounce RESOURCE 80 WP water-soluble packets. The entire inner packet and the contents dissolve and disperse in water. After opening the outer protective bag, immediately add the required number of unopened inner packets into a partially-filled sprayer or mix tank. Do not handle the soluble packets excessively or expose them to water as this may cause rupturing. Reclose outer protective bag.

### MIXING INSTRUCTIONS

Thoroughly clean all sprayer components prior to mixing. Fill the spray tank one-fourth to one-half full with clean water and begin agitation. Add the required amount of RESOURCE 80 WP to spray tank and continue to add water. Maintain agitation throughout mixing procedure and during application. Separately add each additional component of recommended tank mixtures. If poor mixing is suspected with any of the tank-mix components, conduct a standard jar test before adding to the spray tank. If an adjuvant is used for non-selective postemergence applications in reduced-tillage soybeans, add it last when the tank is nearly full.

BROADCAST APPLICATION Apply RESOURCE 80 WP and RESOURCE 80 WP tank mixes with ground equipment using standard commercial sprayers equipped with flat fan (including split-nozzle systems which spray in opposite directions) or hollow cone nozzles designed to deliver the desired spray pressure and spray volume. DO NOT USE flood nozzles. Thorough weed coverage is required for optimum control. Special attention should be given to preparing and operating the spray equipment to assure proper coverage of weed leaf surfaces.

Use RESOURCE 80 WP on a broadcast basis in a minimum of 10 gals. of water per acre and a spray pressure of 40 to 60 PSI measured at the spray nozzle, unless otherwise specified. For best results, use a minimum of 15 to 20 GPA of water and a spray pressure of 50 PSI, measured at the nozzle if weed populations are moderate to heavy and/or weeds are approaching maximum controllable size and/or crop canopy is dense, unless otherwise specified in the use directions for specific tank mixes.

### BAND APPLICATION

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When banding, use proportionately less water and RESOURCE 80 WP per acre. Banding equipment should be adjusted to provide maximum coverage of weeds in the row. A minimum of two nozzles per row is required to provide optimum coverage of weed foliage.

### DIRECTIONS FOR USE IN FIELD CORN

### Do not use RESOURCE 80 WP on popcorn or sweet corn.

Identify your weed species as early as possible and determine the stage of growth by counting the true leaves. Ignore the cotyledon (seed leaves) when you count. Use Tables C1 through C11 to determine rate(s), species and the maximum weed leaf stage at which you may apply RESOURCE 80 WP alone, or in tank mixes.

A temporary crop response may be observed following a postemergence broadcast application of RESOURCE 80 WP. Corn leaves which are open at the time of application may show some burn or spotting. Corn quickly outgrows all initial herbicide effects. When RESOURCE 80 WP is used as directed, corn yields will not be adversely affected.

### ADDITIVES:

Control of weeds by RESOURCE 80 WP is enhanced by the addition of an adjuvant to the spray mixture. Adjuvants are specified in Table C1 (for RESOURCE 80 WP alone) or in Tables C2 through C11 (for RESOURCE 80 WP in tank mixes). If a crop oil concentrate or methylated seed oil is the specified adjuvant, use one that contains at least 15% emulsifier. If a non-ionic surfactant is specified, use one that contains at least 90% active surfactant ingredient. Mixing and compatibility qualities should be verified by a jar test.

Addition of a spray grade ammonium sulfate to the spray mixture along with either crop oil concentrate, methylated seed oil or surfactant may further enhance weed control with RESOURCE 80 WP applications (ammonium sulfate at 2.0 to 2.5 lbs./A).

### RESOURCE 80 WP

### FOR CONTROL OF BROADLEAF WEEDS IN FIELD CORN

### APPLICATION INFORMATION

For best results, RESOURCE 80 WP should be applied to actively growing weeds. Do not apply RESOURCE 80 WP during periods when corn and weeds are under stress. For maximum control, weeds must be actively growing and receive thorough spray coverage.

RESOURCE 80 WP may be applied to field corn from the 2-leaf through the 10-leaf stage. Determine the leaf stage of corn by counting only those leaves with leaf collars visible.

Recommended rates, weed species and maximum weed leaf stages for effective control with RESOURCE 80 WP as a stand-alone treatment applied either as a broadcast or as a drop-nozzle application are indicated in Table C1. Drop-nozzle application should be made after corn has reached a sufficient height for the spray to be directed beneath the corn leaves or when corn leaves prevent proper spray coverage of weeds. When making a drop-nozzle application, the rate of crop oil concentrate should be 1 qt./A. Since the activity of RESOURCE 80 WP is enhanced when the 1 qt./A rate of crop oil concentrate is used, care must be taken to minimize exposure of corn leaves to the spray.

### Table C1.

**RESOURCE 80 WP - Field Corn - Rates and Time of Application** 

Weeds Controlled		Application Rates		
	Crop Oil Concentrate Rate	1 Packet treats 6 Acres 0.54 oz./A	1 Packet treats 4 Acres 0.81 oz./A	
	1 pt./A	Leaf Stage	Leaf Stage	
Common Ragweed Smooth Pigweed Velvetleaf		- up to 5	up to 3 up to 3 up to 6	
Weeds Suppressed Common Lambsquarters Common Ragweed Palmer Amaranth Smooth Pigweed		up to 2 up to 3	2 to 3 up to 4	

DROP-NOZZLE APPLICATION RATES AND TIMING					
	Crop Oil	Application Rates			
Weeds Controlled	Concentrate Rate	1 Packet treats 6 Acres 0.54 oz./A	1 Packet treats 4 Acres 0.81 oz./A	1 Packet treats 3 Acres 1.08 oz./A	
	1 qt./A	Leaf Stage	Leaf Stage	Leaf Stage	
Common Ragweed Jimsonweed Palmer Amaranth Pigweeds		-	up to 4 - up to 4	up to 6 3 to 4 up to 4	
Prostrate Smooth Prickly Sida Velvetleaf		- - - - -	up to 3 up to 3 up to 3 up to 3 up to 8	up to 6 up to 4 up to 4 up to 10	
Weeds Suppressed Common Cocklebur Common Lambsquarters Common Ragweed Pigweeds Redroot Smooth Prickly Sida Spotted Spurge		up to 2 up to 3 up to 2	2 to 3:	1 to 3 2 to 3 up to 2 up to 2	

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Adjuvant: RESOURCE 80 WP must be applied with 1 qt./A of crop oil concentrate or methylated seed oil. The addition of a spray grade ammonium sulfate at 2.0 to 2.5 lbs./A may enhance weed control.

- Use Restrictions for RESOURCE 80 WP Applied to Field Corn:
  1. Do not apply RESOURCE 80 WP to field corn before the 2-leaf or after the 10-leaf stage.
  2. As a broadcast treatment, do not apply more than 0.81 oz./A of RESOURCE 80 WP in a single application or more than a total of 1.08 oz./A to field corn during a single growing season.
  3. As a directed spray using drop nozzles, do not apply more than a total of 1.08 oz./A of RESOURCE 80 WP in a single growing season.
- WP to field corn in a single application or during a single growing season. Do not apply RESOURCE 80 WP if rain is expected within 1 hour of application; otherwise unsatisfactory 4. weed control may result.
- 5. Do not graze animals on green forage or use as feed less than 28 days after RESOURCE 80 WP application.

### **RESOURCE 80 WP TANK MIX COMBINATIONS IN FIELD CORN**

### APPLICATION INFORMATION

For best results, RESOURCE 80 WP tank mix applications should be made to actively growing weeds. Do not apply RESOURCE 80 WP tank mixes during periods when corn and weeds are under stress or when conditions do not favor active weed growth. For maximum control weeds must receive thorough spray coverage.

Recommended herbicides, rates, weed species and maximum weed leaf stage for effective control with RESOURCE 80 WP in tank mix combinations applied either as a broadcast or as a drop-nozzle application are indicated in Tables C2 through C11. Drop-nozzle application should be made after corn has reached a sufficient height for the spray to be directed beneath the corn leaves or when corn leaves prevent proper spray coverage of weeds. When making a drop-nozzle application of RESOURCE 80 WP in a tank mix combination which specifies a crop oil concentrate or methylated seed oil as the adjuvant, the rate of crop oil concentrate or methylated seed oil as the adjuvant, the rate of crop oil concentrate or methylated seed oil should be 1 qt./A. Since the activity of RESOURCE 80 WP applied in a tank mix combination is enhanced when the 1 qt./A rate of crop oil concentrate is used, care must be taken to minimize exposure of corn leaves to the spray.

RESOURCE 80 WP should not be tank mixed with TOUGH<sup>\*</sup> Herbicide due to severe antagonism.

### TANK MIX WITH ATRAZINE FOR CONTROL OF BROADLEAF WEEDS IN FIELD CORN

Ground Application: Apply in a minimum of 10 gals. water per acre and a spray pressure of 35 to 40 PSI measured at the nozzle. For best results use a minimum of 15 to 20 gals. water per acre and a spray pressure of 40 PSI measured at the nozzle if weed populations are moderate to heavy and/or weeds are approaching maximum controllable size and/or the crop canopy is dense.

Recommended Mixing Order: Thoroughly disperse the atrazine in water, add RESOURCE 80 WP, add crop oil concentrate or methylated seed oil and then add ammonium sulfate.

Table C2.

RESOURCE 80 WP & Atrazine Tank Mix - Field Corn - Rates and Time of Application

Product	Product Rates	Weeds Controlled	Leaf Stage
RESOURCE 80 WP	1 Packet treats 6 Acres 0.54 oz./A	Burcucumber	2 to 4 runners (up to 10" runners
plus Atrazine (90 DF)	plus 0.6 - 1.2 lbs./A	Velvetleaf Refer to atrazine labels for	up to 6
or (80 WP )	or 0.7 - 1.4 lbs./A	additional weeds claimed.	
or	or	RESOURCE 80 WP may	
(4 L) or (5 L)	16 - 32 fl. oz./A or 13 - 26 fl. oz./A	enhance the activity of atrazine under some conditions.	

tank mix should be applied with 1 qt./A crop oil concentrate or methylated seed oil. A spray grade ammonium sulfate at 2.0 to 2.5 lbs./A may be added to enhance weed control for either method of application.

### Use Restrictions for RESOURCE 80 WP plus Atrazine Tank Mix:

- Always read and follow all label directions when using any pesticide alone or in tank mix combinations. 1. The most restrictive labeling applies when using a tank mix.
- 2.
- Read and observe all precautions, restrictions and cautions on the atrazine label. Do not apply the RESOURCE 80 WP plus atrazine tank mix to corn before the 2-leaf stage or after the corn is greater than 12 inches in height. 3.
- 4. Do not apply more than a total of 1.08 oz. / A of RESOURCE 80 WP to field corn during a single growing season.
- 5. Do not apply the RESOURCE 80 WP plus atrazine tank mix if rain is expected within 1 hour of application: otherwise unsatisfactory weed control may result.
- 6. Do not graze animals on green forage or use as feed less than 28 days after RESOURCE 80 WP plus atrazine application.

### TANK MIX WITH ACCENT® HERBICIDE FOR CONTROL OF BROADLEAF WEEDS IN FIELD CORN

Ground Application: Apply in a minimum of 10 gals. water per acre and a spray pressure of 40 PSI measured at the nozzle. For best results, use a minimum of 15 to 20 gals, water per acre if weed populations are moderate to heavy and/or weeds are approaching maximum controllable size and/or the crop canopy is dense.

Recommended Mixing Order: Thoroughly disperse RESOURCE 80 WP in water, add ACCENT, add crop oil concentrate or methylated seed oil, and then add ammonium sulfate.

### Table C3.

BESOURCE 80 WP & ACCENT Herbicide Tank Mix - Field Corn - Bates and Time of Application

Product	Product Rates	Weeds Controlled	Leaf Stage
RESOURCE 80 WP	1 Packet treats 6 Acres 0.54 oz./A	Burcucumber Jimsonweed Morningglory	up to 2 up to 2
plus ACCENT (75 WD)	plus 2/3 - 1 oz./A	lvyleaf Pitted Tall Pigweeds Redroot	up to 2 up to 2 up to 2 up to 2
		Smooth Velvetleaf Refer to ACCENT label for ad-	up to 3 up to 5 ditional weeds claimed.
		RESOURCE 80 WP may enhand ACCENT under some condition	nce the activity of
crop oil concentrate or	methylated seed oil. Drop-	/P plus ACCENT tank mix must nozzle application: RESOURCE	be applied with 1 pt./A 80 WP plus ACCENT

tank mix should be applied with 1 qt./A crop oil concentrate or methylated seed oil. A spray grade ammonium sulfate at 2.0 to 2.5 lbs./A may be added to enhance weed control for either method of application.

- Use Restrictions for RESOURCE 80 WP plus ACCENT Herbicide Tank Mix: 1. <u>Always read and follow all label directions when using any pesticide alone or in tank mix combinations.</u> The most restrictive labeling applies when using a tank mix.
- Read and observe all precautions, restrictions and conditions on the ACCENT label. Do not apply the RESOURCE 80 WP plus ACCENT tank mix to corn before the 2-leaf stage or after the 2. 3. corn is taller than 24 inches.
- 4. Do not apply more than a total of 1.08 oz./A of RESOURCE 80 WP to field corn during a single growing season.
- 5. Do not apply the RESOURCE 80 WP plus ACCENT tank mix if rain is expected within 4 hours of application; otherwise unsatisfactory weed control may result.
- Do not graze animals on green forage or use as feed less than 30 days after RESOURCE 80 WP plus ACCENT application. 6.

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### TANK MIX WITH BANVEL® HERBICIDE FOR CONTROL OF BROADLEAF WEEDS IN FIELD CORN

Ground Application: Apply in a minimum of 20 gals, water per acre and a spray pressure of 20 PSI measured at the nozzle.

Recommended Mixing Order: Thoroughly mix RESOURCE 80 WP in water and then add BANVEL. Table C4. RESOURCE 80 WP & BANVEL Herbicide Tank Mix - Field Corn - Bates and Time of Application

### Product **Product Rate** Weeds Controlled Leaf Stage **RESOURCE 80 WP** 1 Packet treats 6 Acres up to 2 up to 3 0.54 oz./A **Common Ragweed** Smooth Pigweed Velvetleaf plus 1/2 pt./A plus up to 6 BANVEL (4 L) Refer to BANVEL label for additional weeds claimed. **RESOURCE 80 WP may enhance the activity of BANVEL** under some conditions.

Adjuvant: RESOURCE 80 WP plus BANVEL tank mix should be applied without the addition of an adjuvant. Consult the BANVEL label and State Extension Service recommendations for situational use of an adjuvant in combination with BANVEL.

- Use Restrictions for RESOURCE 80 WP plus BANVEL Herbicide Tank Mix: 1. Always read and follow all label directions when using any pesticide alone or in tank mix combinations.
- 2. 3.
- Always read and follow all label directions when using any pesticide alone of in tank mix combined ons. The most restrictive labeling applies when using a tank mix. Read and observe all precautions, restrictions and conditions on the BANVEL label. Do not apply the RESOURCE 80 WP plus BANVEL tank mix to corn before the 2-leaf stage or after the corn is greater than 36 inches in height, or after the 10-leaf stage of corn, whichever comes first. Do not apply more than a total of 1.08 oz./A of RESOURCE 80 WP to field corn during a single growing 4.
- season. Do not apply the RESOURCE 80 WP plus BANVEL tank mix if rain is expected within 1 hour of 5.
- application; otherwise unsatisfactory weed control may result. Do not graze animals on green forage or use as feed less than 28 days after RESOURCE 80 WP plus 6.
- BANVEL application. Applications of BANVEL Herbicide to corn during periods of rapid growth may result in temporary leaning. Corn will usually become erect within 3 to 7 days. Cultivation should be delayed until after corn is growing normally to avoid breakage. 7.

### TANK MIX WITH 2,4-D HERBICIDE FOR CONTROL OF BROADLEAF WEEDS IN FIELD CORN

Ground Application: Apply in a minimum of 20 gals. water per acre and a spray pressure of 20 PSI measured at the nozzle.

Recommended Mixing Order: Thoroughly mix RESOURCE 80 WP in water, add 2,4-D and then add non-ionic surfactant. (Non-ionic surfactant should be added only if an amine formulation of 2,4-D is used.

### Table C5.

BESOURCE 8	0 WP & 2.4-D H	erbicide Tank Mix	- Field Corn	- Rates and	Time of A	Indication

Product	Product Rates	Weeds Controlled	Leaf Stage
RESOURCE 80 WP	1 Packet treats 6 Acres 0.54 oz./A plus 0.25 lb. ai/A	Common Ragweed Smooth Pigweed Velvetleaf	up to 2 up to 3 up to 6
2,4-D (L V Ester) or	or	Refer to 2,4-D labels for a	dditional weeds claimed
(Amine)	0.25 - 0.5 lb. ai/A	RESOURCE 80 WP may er 2,4-D under some condition	nhance the activity of

Adjuvant: RESOURCE 80 WP plus 2,4-D L V Ester tank mix must be applied without the addition of an adjuvant. RESOURCE 80 WP plus 2,4-D Amine tank mix must be applied with 0.25% v/v (1 qt. per 100 gals.) non-ionic surfactant.

- Use Restrictions for RESOURCE 80 WP plus 2,4-D Herbicide Tank Mix:

   Always read and follow all label directions when using any pesticide alone or in tank mix combinations. The most restrictive labeling applies when using a tank mix.
   Read and observe all precautions, restrictions and conditions on the 2,4-D label.
   Do not apply the RESOURCE 80 WP plus 2,4-D tank mix to corn before the 2-leaf stage or after the 10-leaf stage. Broadcast application should be made from 2 leaf to 8" corn. The RESOURCE 80 WP plus 2,4-D tank mix should be applied using drop-nozzles after the corn is greater than 8 inches tall up until the 10 leaf stage of development. Refer to the 2,4-D label for specific instructions.
   Do not apply more than a total of 1.08 oz./A of RESOURCE 80 WP to field corn during a single growing season
- season.
- 5. Do not apply the RESOURCE 80 WP plus 2,4-D tank mix if rain is expected within 1 hour of application;
- otherwise unsatisfactory weed control may result. Do not graze animals on green forage or use as feed less than 28 days after RESOURCE 80 WP plus 2,4-D application. 6.
- Delay cultivation for 8 to 10 days after application to prevent stalk breakage due to temporary 7. brittleness caused by 2,4-D.

### TANK MIX WITH BEACON® ACCU-PAK FOR CONTROL OF BROADLEAF WEEDS IN FIELD CORN

Ground Application: Apply a minimum of 10 gals. water per acre and at a spray pressure of 35 to 40 PSI measured at the nozzle. For best results use a minimum of 15 to 20 gals. water per acre and a spray pressure of 40 PSI measured at the nozzle if weed populations are moderate to heavy and/or weeds are approaching maximum controllable size and/or the crop canopy is dense.

Recommended Mixing Order: Thoroughly disperse the BEACON in water, add RESOURCE 80 WP and then add adjuvant(s).

Table C6.

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RESOURCE 80 WP & BEACON ACCU-PAK Herbicide Tank Mix - Field Corn - Rates and Time of Application

Product	Product Rate	Broadleaf Weeds Controlled	Leaf Stage or Inches Beacon 0.38 oz./A Beacon 0.76 oz./A
RESOURCE 80 WP	1 Packet treats 6 Acres 0.54 oz./A	Common Cocklebur Common Ragweed Velvetleaf	1-4 inches 1-4 inches 2-6 inches 2-9 inches up to 6 up to 6
plus BEACON ACCU-PAK (75 WDG)	plus 1 Packet treats 4 Acres 0.38 oz./A to 1 Packet treats 2 Acres 0.76 oz./A	Refer to BEACON label for additional weeds claimed. RESOURCE 80 WP may enhance the activity of BEACON under some	

Adjuvant: Broadcast application: RESOURCE 80 WP plus BEACON tank mix must be applied with 1 pt./A crop oil concentrate or methylated seed oil or .25% v/v of an agricultural approved non-ionic surfactant. Drop nozzle application: RESOURCE 80 WP plus BEACON tank mix should be applied with 1 qt./A crop oil concentrate or methylated seed oil. A spray grade ammonium sulfate at 2 to 4 lbs./A may be added to enhance weed control for either method of application.

- Use Restrictions for RESOURCE 80 WP plus BEACON Herbicide Tank mix: 1. Always read and follow all label directions when using any pesticide alone or in tank mix combinations. The most restrictive labeling applies when using a tank mix.
- 2.3.
- Carefully read and comply with all restrictions, precautions, and conditions on the BEACON label. Do not apply the RESOURCE 80 WP plus BEACON tank mix to corn before the 2 leaf stage or 4 inches. Do not apply the RESOURCE 80 WP plus BEACON tank mix to corn after the 10 leaf stage or 20 inches, whichever comes first.
- 4. Do not apply more than a total of 1.08 oz./A of RESOURCE 80 WP to field corn during a single growing season.
- Do not apply the RESOURCE 80 WP plus BEACON tank mix if rain is expected within 4 hours of application; otherwise unsatisfactory weed control may result. 5.
- 6. Do not harvest grain within 60 days after application.
- 7. Do not graze animals on green forage or use as feed less than 30 days after RESOURCE 80 WP application.
- 8. Do not apply to field corn varieties which are susceptible to BEACON.

### TANK MIX WITH BEACON® ACCU-PAK AND ACCENT® SP HERBICIDES FOR CONTROL OF BROADLEAF WEEDS IN FIELD CORN

Ground Application: Apply in a minimum of 10 gals. water per acre and at a spray pressure of 35 to 40 PSI measured at the nozzle. For best results, use a minimum of 15 to 20 gals, water per acre and a spray pressure of 40 PSI measured at the nozzle if weed populations are moderate to heavy and/or weeds are approaching maximum controllable size and/or the crop canopy is dense.

Recommended Mixing Order: Thoroughly disperse the RESOURCE 80 WP in water, add the BEACON, add the ACCENT, and then add adjuvant(s).

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Table C7. RESOURCE 80 WP plus BEACON ACCU-PAK Herbicide plus ACCENT SP Herbicide Tank Mix - Field Corn -Rates and Time of Application

Product	Product Rate	Broadleaf Weeds Controlled	Leaf Stage
RESOURCE 80 WP plus BEACON ACCU-PAK (75 DF) ACCENT SP (75 DF)	1 Packet treats 6 Acres 0.54 oz./A plus 1 Packet treats 4 Acres .38 oz./A plus .33 oz./A	Burcucumber Common Cocklebur Common Ragweed Jimsonweed Pigweeds Redroot Smooth Velvetleaf Refer to BEACON and labels for additional we RESOURCE 80 WP ma of BEACON plus ACCE conditions.	eeds claimed.

Adjuvant: Broadcast application: RESOURCE 80 WP plus BEACON plus ACCENT tank mix must be applied with 1 pt./A crop oil concentrate, or methylated seed oil, or .25% v/v of an agricultural approved non-ionic surfactant. Drop nozzle application: RESOURCE 80 WP plus BEACON plus ACCENT tank mix should be applied with 1 qt./A crop oil concentrate or methylated seed oil. A spray grade ammonium sulfate at 2 to 4 lbs./A may be added to enhance weed control for either method of application.

- Use Restrictions for RESOURCE 80 WP plus BEACON Herbicide plus ACCENT SP Herbicide Tank mix: 1. Always read and follow all label directions when using any pesticide alone or in tank mix combinations. The most restrictive labeling applies when using a tank mix. Carefully read and observe all restrictions, precautions, and conditions on the ACCENT and BEACON
- 2. labels.
- Do not apply the RESOURCE 80 WP plus BEACON plus ACCENT tank mix to corn before the 2 leaf stage or 4 inches. Do not apply the RESOURCE 80 WP plus BEACON plus ACCENT tank mix to corn 3. after corn is greater than 20 inches in height.
- Do not apply more than a total of 1.08 oz./A of RESOURCE 80 WP to field corn during a single growing 4. season.
- Do not apply the RESOURCE 80 WP plus BEACON plus ACCENT tank mix if rain is expected within 4 hours of application; otherwise unsatisfactory weed control may result. 5.
- 6. 7. Do not harvest grain within 60 days after application.
- Do not graze animals on green forage or use as feed less than 30 days after RESOURCE 80 WP application.
- Do not apply to field corn varieties which are susceptible to BEACON or ACCENT. Refer to the BEACON and ACCENT labels for rotational crop information. 8.
- <u>9</u>.

### TANK MIX WITH MARKSMAN® HERBICIDE FOR CONTROL OF BROADLEAF WEEDS IN FIELD CORN

Ground Application: Apply in a minimum of 10 gals. water per acre and a spray pressure of 30 PSI measured at the nozzle. For best results use a minimum of 15 to 20 gals. water per acre if weed populations are moderate to heavy and/or weeds are approaching maximum controllable size and/or the crop canopy is dense.

Recommended Mixing Order: Thoroughly mix the RESOURCE 80 WP in water and then add the MARKSMAN.

### Table C8

RESOURCE 80 WP & MARKSMAN Herbicide Tank Mix - Field Corn - Rates and Time of Application

Product	Product Rates	Weeds Controlled	Leaf Stage
RESOURCE 80 WP	1 Packet treats 6 Acres 0.54 oz./A	Common Cocklebur Common Lambsquarters Common Ragweed Pigweeds	up to 4 up to 6 up to 4
plus MARKSMAN (3.2 FL)	plus 2.0 - 3.5 pts./A	Redroot Smooth Velvetleaf Refer to MARKSMAN label for additional weeds claimed.	up to 3 up to 3 up to 6
		RESOURCE 80 WP may enhance the activity of MARKSMAN under some conditions.	:
Adjuvant: Do not use any adju	want with the RESO	URCE 80 WP plus MARKSMA	N tank mix.

### Use Restrictions for RESOURCE 80 WP plus MARKSMAN Herbicide Tank Mix:

- Always read and follow label directions when using any pesticide alone or in tank mix combinations. The most restrictive labeling applies when using a tank mix. 1.
- Carefully read and observe all precautions, restrictions and conditions on the MARKSMAN label. Do not apply RESOURCE 80 WP plus MARKSMAN tank mix to corn before the 2-leaf stage. Do not apply after the corn is larger than 8 inches in height or after the 5 leaf stage, whichever comes first. Do not apply more than a total of 1.08 oz./A of RESOURCE 80 WP to field corn during a single growing 2. 3.
- 4. season.
- 5. Do not apply the RESOURCE 80 WP plus MARKSMAN tank mix if rain is expected within 4 hours of application; otherwise unsatisfactory weed control may result.
- 6. Do not graze animals on green forage or use as feed less than 28 days after an application of RESOURCE 80 WP.

### TANK MIX WITH ATRAZINE AND ACCENT® HERBICIDES FOR CONTROL OF BROADLEAF WEEDS IN FIELD CORN

Ground Application: Apply in a minimum of 10 gals. water per acre and a spray pressure of 40 PSI measured at the nozzle. For best results, use a minimum of 15 to 20 gals. water per acre if weed populations are moderate to heavy and/or weeds are approaching maximum controllable size and/or the crop canopy is dense.

Recommended Mixing Order: Thoroughly disperse the RESOURCE 80 WP in water, add ACCENT, add atrazine, and then add crop oil concentrate or methylated seed oil.

### Table C9

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BESQURCE 80, WP plus Atrazine plus ACCENT Herbicide Tank Mix - Field Corn - Bates and Time of Application

Product	Product Rates	Broadleaf Weeds Controlled	Leaf Stage
RESOURCE 80 WP plus Atrazine (90 DF) or Atrazine or Atrazine (4 L) or Atrazine (5 L) plus ACCENT (75 SP or DF)	1 Packet treats 6 Acres 0.54 oz./A plus 0.6-1.2 lbs./A or 0.7-1.4 lbs./A or 16-32 fl. oz./A plus 0.66-1.0 oz./A	Burcucumber Common Cocklebur Common Lambsquarters Common Ragweed Jimsonweed Morningglory Ivyleaf Pitted Tall Pigweeds Redroot Smooth Velvetleaf Refer to atrazine and ACCENT labels for additional weeds claimed. RESOURCE 80 WP may enhance the activity of atrazine plus ACCENT under some conditions.	up to 10 inch runners up to 4 up to 2 up to 3 up to 3 up to 3 up to 6

Adjuvant: Broadcast application: RESOURCE 80 WP plus atrazine plus ACCENT tank mix must be applied with 1 pt./A of crop oil concentrate or methylated seed oil. Drop nozzle application: RESOURCE 80 WP plus atrazine plus ACCENT tank mix should be applied with 1 qt./A crop oil concentrate or methylated seed oil. A spray grade ammonium sulfate at 2 to 4 lbs./A may be added to enhance weed control for either method of application.

Use Restrictions for RESOURCE 80 WP plus Atrazine plus ACCENT SP Herbicide Tank mix:

Always read and follow all label directions when using any pesticide alone or in tank mix combinations. The most restrictive labeling applies when using a tank mix. 1

- 2. Carefully read and observe all precautions, restrictions and conditions on the atrazine and ACCENT labels.
- З. Carefully read and comply with all the ACCENT restrictions, precautions, and conditions concerning the use of insecticides.
- Do not apply the RESOURCE 80 WP plus atrazine plus ACCENT tank mix to corn before the 2-leaf stage or after the corn is greater than 12 inches in height. Do not apply more than a total of 1.08 oz./A of RESOURCE 80 WP to field corn during a single growing 4.
- 5. season.
- Do not apply the RESOURCE 80 WP plus atrazine plus ACCENT tank mix if rain is expected within 4 hours of application; otherwise unsatisfactory weed control may result. 6.
- 7. Do not graze animals on green forage or use as feed less than 30 days after RESOURCE 80 WP application.

### TANK MIX WITH CLARITY® HERBICIDE FOR CONTROL OF BROADLEAF WEEDS IN FIELD CORN

Ground Application: Apply in a minimum of 10 gals, water per acre and a spray pressure of 30 PSI measured at the nozzle. For best results use a minimum of 15 to 20 gals, water per acre if weed populations are moderate to heavy and/or weeds are approaching maximum controllable size and/or the crop canopy is dense.

Recommended Mixing Order: Thoroughly mix RESOURCE 80 WP in water, add CLARITY and then add the adiuvant.

### Table C10.

RESOURCE 80 WP & CLARITY Herbicide Tank Mix - Field Corn - Bates and Time of Application

Product	Product Rate	<b>Broadleaf Weeds Controlled</b>	Leaf Stage
RESOURCE 80 WP	1 Packet treats 6 Acres 0.54 oz./A	Common Ragweed Smooth Pigweed Velvetleaf	up to 2 up to 3 up to 5
plus CLARITY (4 L)	plus 8 fl. oz./A	Refer to CLARITY label for additional weeds claimed.	
		RESOURCE 80 WP may enhance the activity of CLARITY under some conditions.	

Adjuvant: Broadcast and drop nozzle applications: RESOURCE 80 WP plus CLARITY tank mix may be applied with non-ionic surfactant at .25% v/v (1 qt./100 gals.).

- Use Restrictions for RESOURCE 80 WP plus CLARITY Herbicide Tank mix: 1. Always read and follow all label directions when using any pesticide alone or in tank mix combinations. The most restrictive labeling applies when using a tank mix.
- Read and observe all precautions, restrictions and conditions on the CLARITY label. Do not apply the RESOURCE 80 WP plus CLARITY tank mix to corn before the 2-leaf stage or after the 2. corn is greater than 8 inches in height. Do not apply more than a total of 1.08 oz./A of RESOURCE 80 WP to field corn during a single growing
- 4. season.
- Do not apply the RESOURCE 80 WP plus CLARITY tank mix if rain is expected within 4 hours of 5. application; otherwise unsatisfactory weed control may result. Do not graze animals on green forage or use as feed less than 28 days after RESOURCE 80 WP
- 6. application.
- Applications of CLARITY to corn during periods of rapid growth may result in temporary leaning. Corn will usually become erect within 3 to 7 days. Cultivation should be delayed until after corn is growing 7. normally to avoid breakage.

### TANK MIX WITH EXCEED® HERBICIDE FOR CONTROL OF BROADLEAF WEEDS IN FIELD CORN

Ground Application: Apply in a minimum of 10 gals. water per acre and a spray pressure of 40 PSI measured at the nozzle. For best results, use a minimum of 20 gals, water per acre if weed populations are moderate to heavy and/or weeds are approaching maximum controllable size and/or the crop canopy is dense.

Recommended Mixing Order: Thoroughly disperse the EXCEED in water, add RESOURCE, add crop oil concentrate or methylated seed oil and then add ammonium sulfate.

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Table C11. BESOURCE 80 WP & EXCEED Herbicide Tank Mix - Field Corn - Bates and Time of Application

Product	Product Rate	Weeds Controlled	Leaf Stage
RESOURCE 80 WP	1 Packet treats 6 Acres 0.54 oz./A	Velvetleaf	up to 6
plus EXCEED (57 DG)	plus 1 oz./A or	Refer to EXCEED label for additional weeds claimed.	
	1 Packet treats 4 Acres	RESOURCE 80 WP may enhance the activity of EXCEED under some conditions,	

Adjuvant: Broadcast application: RESOURCE 80 WP plus EXCEED tank mix must be applied with 1 pt./A crop oil concentrate or methylated seed oil. Drop nozzle application: RESOURCE 80 WP plus EXCEED tank mix should be applied with 1 qt./A crop oil concentrate or methylated seed oil. A spray grade ammonium sulfate at 2 lbs./A may be added to enhance weed control.

### Use Restrictions for RESOURCE 80 WP plus EXCEED Herbicide Tank mix:

- Always read and follow label directions when using any pesticide alone or in tank mix combinations. The most restrictive labeling applies when using a tank mix. 1.
- Read and observe all precautions, restrictions and conditions on the EXCEED label. Do not apply RESOURCE 80 WP plus EXCEED tank mix to corn before the crop is 4 inches in height. Do not apply after the corn is larger than the 10 leaf stage. Do not apply more than a total of 1.08 oz./A or RESOURCE 80 WP to field corn during a single growing 2.3.
- 4. season.
- 5. Do not apply the RESOURCE 80 WP plus EXCEED tank mix if rain is expected within 4 hours of application; otherwise unsatisfactory weed control may result.
- 6. Do not harvest grain until 60 days after application.
- Do not harvest silage until 40 days after application.
- Do not graze animals on green forage or use as feed less than 30 days after an application of RESOURCE 80 WP. 8.
- 9. If an insecticide was used, refer to the EXCEED label for precautions regarding possible interactions.
- 10. Refer to the EXCEED label for all corn variety or hybrid precautions.

### **DIRECTIONS FOR USE IN SOYBEANS**

Identify your weed species as early as possible and determine the stage of growth by counting the true leaves. Ignore the cotyledon (seed leaves) when you count. Use Tables S1 through S 11 to determine rate(s), species and the maximum weed leaf stage at which you may apply RESOURCE 80 WP alone, or in tank mixes.

A temporary crop response may be expected following a postemergence application of RESOURCE 80 WP. Soybean leaves which are open at the time of application may show some burn or spotting. Soybeans quickly outgrow all initial herbicide effects. When RESOURCE 80 WP is used as directed, soybean yields will not be adversely affected.

### ADDITIVES:

Control of weeds by RESOURCE 80 WP is enhanced by the addition of an adjuvant to the spray mixture. Adjuvants are specified in Table S1 (for RESOURCE 80 WP alone) or in Tables S2 through S11 (for RESOURCE 80 WP in tank mixes). If crop oil concentrate or methylated seed oil is the specified adjuvant, use one that contains at least 15% emulsifier. If a non-ionic surfactant is specified, use one that contains at least 90% active surfactant ingredient. Mixing and compatibility qualities should be verified by a jar test.

A spray grade nitrogen fertilizer solution (28-32% N) or spray grade ammonium sulfate may further enhance weed control with RESOURCE 80 WP applications (UAN at approximately 1 to 2 qt./A or ammonium sulfate at approximately 2.0 to 2.5 lbs./A). The addition of a nitrogen source may increase crop response.

### **RESOURCE 80 WP** FOR CONTROL OF BROADLEAF WEEDS IN SOYBEANS

### **APPLICATION INFORMATION**

For best results, RESOURCE 80 WP should be applied to actively-growing weeds. Do not apply RESOURCE 80 WP during periods when the soybeans and the weeds are under stress or when conditions do not favor active weed growth.

Late postemergence control of tall velvetleaf may be achieved with RESOURCE 80 WP plus 1 qt./A of crop oil concentrate or methylated seed oil. A spray grade nitrogen fertilizer solution (28-32% N) or spray grade ammonium sulfate in addition to crop oil concentrate or methylated seed oil may further enhance control of tall velvetleaf. For maximum control, velvetleaf plants must be actively growing and receive thorough spray coverage. If regrowth occurs, a second application of RESOURCE 80 WP can be made.

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Table S1. <u>RESOURCE 80 WP - Soybeans - Rates and Time of Application</u>

	DROP-NOZZLE APPLICA	TION RATES AND	TIMING		
		Application Rates			
Weeds Controlled	Crop Oil Concentrate Rate	1 Packet treats 6 Acres 0.54 oz./A	1 Packet treats 4 Acres 0.81 oz./A	1 Packet treats 3 Acres 1.08 oz./A	
	1 qt./A	Leaf Stage	Leaf Stage	Leaf Stage	
Common Ragweed Jimsonweed Palmer Amaranth Pigweeds			up to 4 up to 4	up to 6 3 to 4 up to 4	
Prostrate Smooth Prickly Sida Velvetleaf			up to 3 up to 3 up to 3 up to 3 up to 8	up to 6 up to 4 up to 4 up to 10	
Weeds Suppressed			up u		
Common Cocklebur Common Lambsquarters Common Ragweed		  up to 2	2 to 3	1 to 3 2 to 3	
Pigweeds Redroot Smooth Prickly Sida Spotted Spurge		up to 3 up to 2 	* 	up to 2   up to 2	

Adjuvant: RESOURCE 80 WP, when used alone, must be applied with 1 qt./A of crop oil concentrate or methylated seed oil. A spray grade nitrogen fertilizer solution (28-32% N) at 1 to 2 qts./A or spray grade anmonium sulfate at 2.0 to 2.5 lbs./A may be added to enhance weed control.

Weeds Controlled	Crop Oil	Application Rates		
	Concentrate Rate	1 Packet treats 3 Acres 1.08 oz./A	1 Packet treats 2 Acres 1.62 oz./A	
Maximum Velvetleaf Growth Stage	1 qt./A	up to 10-leaf or 24 inches tall	up to 30 inches tall	

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- Use Restrictions for RESOURCE 80 WP Applied to Soybeans: 1. Do not apply RESOURCE 80 WP within 60 days of harvest.
- Do not apply more than 1.62 oz./A of RESOURCE 80 WP in a single application or more than a total of 2. 2.16 oz./A to soybeans during a single growing season.
- з.
- Do not graze treated fields or harvest for forage or hay. Do not apply RESOURCE 80 WP if rain is expected within 1 hour of application; otherwise unsatisfactory 4. weed control may result.

### RESOURCE 80 WP TANK MIX COMBINATIONS IN SOYBEANS

### **APPLICATION INFORMATION**

For best results, RESOURCE 80 WP tank mixes should be applied to actively growing weeds. Do not apply RESOURCE 80 WP tank mixes during periods when soybeans and weeds are under stress or when conditions do not favor active weed growth.

### TANK MIX COMBINATION WITH SELECT® 2 EC HERBICIDE FOR CONTROL OF GRASSES AND BROADLEAF WEEDS

Ground Application: Apply in a minimum of 10 gals. water per acre and a spray pressure of 40 to 60 PSI measured at the nozzle. For best results, use a minimum of 15 to 20 gals, water per acre and a spray pressure of 50 PSI measured at the nozzle if weed populations are moderate to heavy and/or weeds are approaching maximum controllable size and/or the crop canopy is dense.

Recommended Mixing Order: Thoroughly mix RESOURCE 80 WP in water, add SELECT, add crop oil concentrate or methylated seed oil, and then add nitrogen fertilizer solution.

### Table S2.

RESOURCE 80 WP & SELECT 2 EC Herbicide Tank Mix - Sovbeans - Rates and Time of Application .

PRODUCT	PRODUCT RATE	WEEDS CONTROLLED
RESOURCE 80 WP	1 Packet treats 2 -6 Acres 0.54 - 1.62 oz./A plus	Refer to RESOURCE 80 WP label for broadleaf weeds controlled at specific rates. Annual grasses, refer to SELECT label for grass weeds controlled.
plus SELECT (2 EC)	6 - 8 fl. oz./A 8 - 16 fl. oz./A	Perennial grasses, refer to SELECT label for grass weeds controlled.

Adjuvant: RESOURCE 80 WP plus SELECT tank mix must be applied with 1 qt./A crop oil concentrate or methylated seed oil. A spray grade nitrogen fertilizer solution (28-32% N) at 1 to 2 qts./A or spray grade ammonium sulfate at 2.0 to 2.5 lbs./A may be added to enhance weed control.

### Use Restrictions for RESOURCE 80 WP plus SELECT 2 EC Herbicide Tank Mix:

- Always read and follow all label directions when using any pesticide alone or in tank mix combinations. 1. The most restrictive labeling applies when using a tank mix. Do not apply more than 1.62 oz./A of RESOURCE 80 WP in a single application or more than a total of
- 2. 2.16 oz./A to soybeans during a single growing season.
- з. Read and observe all restrictions, precautions, conditions, and information concerning antagonism on the SELECT 2 EC label. Do not apply the RESOURCE 80 WP plus SELECT 2 EC tank mix within 60 days of harvest.
- 4.
- Do not graze animals on green forage or stubble. Do not utilize hay or straw for animal feed or bedding. Do not apply RESOURCE 80 WP plus SELECT 2 EC if rain is expected within one hour of application; 5. 6. otherwise unsatisfactory weed control may result.

### TANK MIX WITH COBRA® HERBICIDE FOR CONTROL OF BROADLEAF WEEDS IN SOYBEANS

Ground Application: Apply in a minimum of 10 gals. water per acre and a spray pressure of 40 to 60 PSI measured at the nozzle. For best results, use a minimum of 15 to 20 gals. water per acre and a spray pressure of 50 PSI measured at the nozzle if weed populations are moderate to heavy and/or weeds are approaching maximum controllable size and/or the crop canopy is dense.

Recommended Mixing Order: Thoroughly disperse RESOURCE 80 WP in water, add COBRA Herbicide, add crop oil concentrate or methylated seed oil and then add nitrogen fertilizer solution.

Table S3.

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			,	Leaf Stage	
Product	Product Rate	Broadleaf Weeds Controlled	COBRA 6 fl. oz./A	COBRA 8 fl. oz./A	COBRA 10 fl. oz.//
RESOURCE 80 WP	1 Packet treats 6 Acres 0.54 oz./A	Black Nightshade Common Cocklebur Pigweeds	up to 3 up to 2	up to 4 up to 4	up to 6 up to 4
plus COBRA (2 EC)	plus 6 - 10 fl. oz./A Note: Increased phytotoxicity (crop burn) may occur when COBRA is used at 8-10 fl. oz./A	Palmer Amaranth Redroot Smooth Prostrate Spiny Amaranth Prickly Sida (Teaweed) Velvetleaf Waterhemp Common Tall Jimsonweed Ragweeds Common Giant Copperleaf Hophornbeam Virginia Spotted Spurge	up to 6 up to 3    up to 6 up to 4 up to 4 up to 4 up to 4 up to 2  	up to 6 up to 3 	up to 6 up to 6 up to 6 up to 6 up to 6 up to 4 up to 4 up to 4 up to 4 up to 4 up to 6 up to 4 up to 6 up to 4 up to 6
		Broadleaf Weeds Suppressed	<b>.</b>	· · · · · · · · · · · · · · · · · · ·	<u> </u>
		Common Lambsquarters Annual Morningglories Hemp Sesbania Burcucumber Pennsylvania Smartweed	up to 2 up to 3 up to 2 -	up to 2 up to 3 up to 4 -	up to 2 up to 4 up to 4 up to 4 up to 4
		RESOURCE 80 WP may enhance the activity of COBRA under some conditions.			

<b>RESOURCE 80 WP &amp;</b>		

Adjuvant: RESOURCE 80 WP plus COBRA tank mix must be applied with 1 pt./A crop oil concentrate or methylated seed oil. A spray grade nitrogen fertilizer solution (28-32% N) at 1 to 2 qts./A or spray grade ammonium sulfate at 2.0 to 2.5 lbs./A may be added to enhance weed control. The addition of a nitrogen source may increase crop response.

SELECT 2EC Herbicide may be added to the RESOURCE 80 WP plus COBRA tank mix at 6 to 8 fl. oz./A for control of annual grasses. Use the high rate under heavy grass pressure and/or when grasses are approaching maximum controllable height. A second application of SELECT 2 EC may be necessary in some situations. If SELECT 2 EC is included in this tank mix, the SELECT 2 EC should be added last, just prior to application. A spray grade nitrogen fertilizer solution (28-32% N) at 1 to 2 qts./A or spray grade ammonium sulfate at 2.0 to 2.5 lbs./A may be added to enhance weed control. The addition of a nitrogen source may increase crop response. The spray grade fertilizer does not replace the requirement for crop oil concentrate or methylated seed oil. Refer to the SELECT 2 EC label for a list and growth stages of annual grasses controlled, precautions, restrictions, information on antagonism and other information. For control of perennial grasses, such as rhizome johnsongrass, it is recommended that SELECT 2 EC be used as a sequential application at least 1 day before or 7 days after the RESOURCE 80 WP plus COBRA tank mix. Refer to the SELECT 2 EC label for perennial grasses, rates and adjuvants recommended.

### Use Restrictions for RESOURCE 80 WP plus COBRA Herbicide Tank Mix:

- Always read and follow all label directions when using any pesticide alone or in tank mix combinations. 1. The most restrictive labeling applies when using a tank mix.
- 2.
- Read and observe all precautions, restrictions, and conditions on the COBRA label. Do not apply more than 1.62 oz./A of RESOURCE 80 WP in a single application or more than a total of 3. 2.16 oz./A to soybeans during a single growing season.
- Carefully read and observe all precautions, restrictions and conditions on the COBRA label. Do not apply the RESOURCE 80 WP plus COBRA tank mix within 60 days of harvest. 4.
- 5.
- Do not graze animals on green forage or stubble. Do not utilize hay or straw for animal feed or bedding. Do not apply RESOURCE 80 WP plus COBRA tank mix if rain is expected within 1 hour of application; 6.
- otherwise unsatisfactory weed control may result.

### TANK MIX WITH PURSUIT® HERBICIDE FOR CONTROL OF BROADLEAF WEEDS IN SOYBEANS

Ground Application: Apply in a minimum of 10 gals. water per acre and a spray pressure of 40-60 PSI measured at the nozzle. For best results use a minimum of 15 to 20 gals, water per acre and a spray pressure of 50 PSI measured at the nozzle if weed populations are moderate to heavy and/or weeds are approaching maximum controllable size and/or the crop canopy is dense.

Recommended Mixing Order: Thoroughly disperse RESOURCE 80 WP in water, add PURSUIT, add crop oil concentrate or methylated seed oil and then add nitrogen fertilizer solution

### Table S4.

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RESOURCE 80 WP & PURSUIT Herbicide Tank Mix - Soybeans - Rates and Time of Application

Product	Product Rate	Weeds Controlled	Leaf Stage
RESOURCE 80 WP	1 Packet treats 6 Acres 0.54 oz./A	Common Lambsquarters	1 to 4
plus PURSUIT (2L) or PURSUIT (70 DG)	plus 4 fl. oz./A or 1.44 oz./A	Redroot Smooth Velvetleaf	up to 8 up to 8 up to 6
		Refer to PURSUIT label for ac claimed.	ditional weeds
		RESOURCE 80 WP may enha PURSUIT under some condition	nce the activity of

Adjuvant: RESOURCE 80 WP plus PURSUIT tank mix must be applied with 1 qt./A crop oil concentrate or methylated seed oil plus 1 to 2 qt./A of a spray grade nitrogen based liquid fertilizer such as 28-32% N or 2.0 to 2.5 lbs./A of a spray grade ammonium sulfate.

SELECT 2EC Herbicide may be added to the RESOURCE 80 WP plus PURSUIT tank mix at 6 to 8 fl. oz./A for control of annual grasses. Use the high rate under heavy grass pressure and/or when grasses are approaching maximum controllable height. A second application of SELECT 2 EC may be necessary in some situations. If SELECT 2 EC is included in this tank mix, the SELECT 2 EC should be added last, just prior to application. A spray grade nitrogen fertilizer solution (28-32% N) at 1 to 2 qts./A or spray grade ammonium sulfate at 2.0 to 2.5 lbs./A must be added to this tank mix. The spray grade fertilizer does not replace the requirement for crop oil concentrate or methylated seed oil. Refer to the SELECT 2 EC label for a list and growth stages of annual grasses controlled, precautions, restrictions, information on antagonism and other information. For control of perennial grasses, such as rhizome johnsongrass, it is recommended that SELECT 2 EC be used as a sequential application at least 1 day before or 7 days after the RESOURCE 80 WP plus PURSUIT tank mix. Refer to the SELECT 2 EC label for perennial grasses controlled growth stages, rates and adjuvants recommended.

### Use Restrictions for RESOURCE 80 WP plus PURSUIT Herbicide Tank Mix:

- Always read and follow all label directions when using any pesticide alone or in tank mix combinations. 1. The most restrictive labeling applies when using a tank mix. This tank mix is restricted to areas in which PURSUIT is labeled. Refer to PURSUIT supplemental labeling for use in North Dakota and northern Minnesota (north of State Hwy. 210).
- Read and observe all precautions, restrictions and conditions on the PURSUIT label. 2.
- Do not apply more than 1.62 oz./A of RESOURCE 80 WP in a single application or more than a total of 3 2.16 oz./A to soybeans during a single growing season. Do not apply the RESOURCE 80 WP plus PURSUIT tank mix within 85 days of harvest. Application
- 4. should be made before soybean bloom.
- Do not graze animals on green forage or stubble. Do not utilize hay or straw for animal feed or bedding. 5.
- Do not apply RESOURCE 80 WP plus PURSUIT tank mix if rain is expected within 1 hour of application; otherwise unsatisfactory weed control may result. 6.
- Due to environmental conditions and other factors influencing the growth, development and physiological condition of lambsquarters, control may be partial or inconsistent.

### TANK MIX WITH BASAGRAN® POSTEMERGENCE HERBICIDE FOR CONTROL OF BROADLEAF WEEDS IN SOYBEANS

Ground Application: Apply in a minimum of 20 to 30 gals. water per acre and a spray pressure of 40 to 60 PSI measured at the nozzle. For best results use a minimum spray pressure of 50 PSI measured at the nozzle if weed populations are moderate to heavy and/or weeds are approaching maximum controllable size and/or the crop canopy is dense.

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Recommended Mixing Order: Thoroughly mix RESOURCE 80 WP in water, add BASAGRAN, add crop oil concentrate or methylated seed oil and then add nitrogen fertilizer solution.

### Table S5.

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<b>RESOURCE 80 WP 8</b>	BASAGRAN Herbicide Tank Mix -	Sovheans - Rates and Time of Application

	4	Broadleaf Weeds Controlled	Leaf Stage or Inches	
Product	Product Rates		Basagran 16oz./A	Basagran 24 oz./A
RESOURCE 80 WP plus BASAGRAN (4 L)	1 Packet treats 6 Acres 0.54 oz./A plus 16 - 24 fl.oz./A	CommonCocklebur Common Lambsquarters Jimsonweed Pennsylvania Smartweed Yellow Nutsedge Velvetleaf Wild Sunflower Refer to BASAGRAN label for additional weeds claimed. RESOURCE 80 WP may enhance the activity of BASAGRAN under some conditions.	2 to 4 up to 4 up to 4 up to 4 up to 8 up to 2	2 to 6 up to 6 up to 6 up to 6 inch up to 8 up to 4

concentrate or methylated seed oil. To enhance weed control, 1 to 2 ats./A of a spray grade nitrogen based liquid fertilizer, such as, 28, 30, or 32% N or 2.0 to 2.5 lbs. ammonium sulfate/A may be added. The higher (2 pts./A) rate of crop oil concentrate or methylated seed oil must be used if common lambsquarters or yellow nutsedge is present at time of application.

SELECT 2EC Herbicide may be added to the RESOURCE 80 WP plus BASAGRAN tank mix at 8 to 10 fl. oz./A for control of annual grasses. Use the high rate under heavy grass pressure and/or when grasses are approaching maximum controllable height. A second application of SELECT 2 EC may be necessary in some situations. If SELECT 2EC is included in this tank mix, the SELECT 2 EC should be added last, just prior to application. A spray grade nitrogen fertilizer solution (28-32% N) at 1 to 2 qts./A or spray grade ammonium sulfate at 2.0 to 2.5 lbs./A may be added to enhance weed control. The addition of a nitrogen source may increase crop response. The spray grade fertilizer does not replace the requirement for crop oil concentrate or methylated seed oil. Refer to the SELECT 2 EC label for a list and growth stages of annual grasses controlled, precautions, restrictions, information on antagonism and other information. For control of perennial grasses, such as rhizome johnsongrass, it is recommended that SELECT 2 EC be used as a sequential application at least 1 day before or 7 days after the RESOURCE 80 WP plus BASAGRAN tank mix. Refer to the SELECT 2 EC label for perennial grasses controlled, growth stages, rates and adjuvants recommended.

### Use Restrictions for RESOURCE 80 WP plus BASAGRAN Herbicide Tank Mix:

- Always read and follow all label directions when using any pesticide alone or in tank mix combinations. 1. The most restrictive labeling applies when using a tank mix.
- 2. Read and observe all precautions, restrictions and conditions on the BASAGRAN label.
- 3. Do not apply more than 1.62 oz./A of RESOURCE 80 WP in a single application or more than a total of 2.16 oz./A to soybeans during a single growing season.
- Do not apply the RESOURCE 80 WP plus BASAGRAN tank mix within 60 days of harvest. 4.
- 5.
- Do not graze animals on green forage or stubble. Do not utilize hay or straw for animal feed or bedding. Do not apply RESOURCE 80 WP plus BASAGRAN tank mix if rain is expected within 4 hours of 6.

application; otherwise unsatisfactory weed control may result. Due to environmental conditions and other factors influencing the growth, development and physiological condition of lambsquarters, control may be partial or inconsistent.

### TANK MIX WITH CLASSIC<sup>®</sup> HERBICIDE FOR CONTROL OF BROADLEAF WEEDS IN SOYBEANS

Ground Application: Apply in a minimum of 10 gals. water per acre and a spray pressure of 40 to 60 PSI measured at the nozzle. For best results, use a minimum of 15-20 gals. water per acre and a spray pressure of 50 PSI measured at the nozzle if weed populations are moderate to heavy and/or weeds are approaching maximum controllable size and/or the crop canopy is dense.

**Recommended Mixing Order:** The recommended order of mixing is to thoroughly disperse RESOURCE 80 WP in water, add CLASSIC, add crop oil concentrate and then add nitrogen fertilizer solution.

RESOURCE 80 WP & CLASSIC Herbicide Tank Mix - Soybeans - Rates and Time of Application

Table	S6.
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Product	Product Rates	Weeds Controlled	Leaf Stage
RESOURCE 80 WP	1 Packet treats 6 Acres	Common Cocklebur	2 to 6
	0.54 oz./A	Pigweed	
		Redroot	up to 3
plus	plus	Pennsylvania	:
CLASSIC (25 DG)	1/2 - 3/4 oz./A	Smartweed	1 to 2
		Velvetleaf	up to 6
		Refer to CLASSIC	
		label for additional	
		weeds claimed.	:
		RESOURCE 80 WP may	L.
		enhance the activity of	
		CLASSIC under some conditions.	

Adjuvant: RESOURCE 80 WP plus CLASSIC tank mix must be applied with 1 pt./A crop oil concentrate or methylated seed oil. A spray grade nitrogen fertilizer solution (28-32% N) at 1 to 2 qts./A or spray grade ammonium sulfate at 2.0 to 2.5 lbs./A may be added to enhance weed control. The addition of a nitrogen source may increase crop response.

SELECT 2EC Herbicide may be added to the RESOURCE 80 WP plus CLASSIC tank mix at 8 to 10 fl. oz./A for control of annual grasses. Use the high rate under heavy grass pressure and/or when grasses are approaching maximum controllable height. A second application of SELECT 2 EC may be necessary in some situations. If SELECT 2 EC is included in this tank mix, the SELECT 2 EC should be added last, just prior to application. A spray grade nitrogen fertilizer solution (28-32% N) at 1 to 2 qts./A or spray grade ammonium sulfate at 2.0 to 2.5 lbs./A may be added to enhance weed control. The addition of a nitrogen source may increase crop response. The spray grade fertilizer does not replace the requirement for crop oil concentrate or methylated seed oil. Refer to the SELECT 2 EC label for a list and growth stages of annual grasses controlled, precautions, restrictions, information on antagonism and other information. For control of perennial grasses, such as rhizome johnsongrass, it is recommended that SELECT 2 EC be used as a sequential application at least 1 day before or 7 days after the RESOURCE 80 WP plus CLASSIC tank mix. Refer to the SELECT 2 EC label for perennial grasses controlled, growth stages, rates and adjuvants recommended.

### Use Restrictions for RESOURCE 80 WP plus CLASSIC Herbicide Tank Mix:

- 1. Always read and follow all label directions when using any pesticide alone or in tank mix combinations. The most restrictive labeling applies when using a tank mix.
- 2. Read and observe all precautions, restrictions, and conditions on the CLASSIC label.
- 3. Do not apply more than 1.62 oz./A of RESOURCE 80 WP in a single application or more than a total of 2.16 oz./A to soybeans during a single growing season.
- 4. Do not apply the RESOURCE 80 WP plus CLASSIC tank mix within 60 days of harvest.
- 5. Do not graze animals on green forage or stubble. Do not utilize hay or straw for animal feed or bedding.
- 6. Do not apply RESOURCE 80 WP plus CLASSIC tank mix if rain is expected within 1 hour of application;

- otherwise unsatisfactory weed control may result.
- 7. Refer to the CLASSIC label for restrictions on soil pH minimum, recropping interval and rotational guidelines.

### TANK MIX WITH SCEPTER® HERBICIDE FOR CONTROL OF BROADLEAF WEEDS IN SOYBEANS

Ground Application: Apply in a minimum of 20 to 30 gals. water per acre and a spray pressure of 40 PSI measured at the nozzle.

Recommended Mixing Order: Thoroughly disperse RESOURCE 80 WP in water, add SCEPTER and then add crop oil concentrate or methylated seed oil or non-ionic surfactant.

# Table S7. RESOURCE 80 WP & SCEPTER Herbicide\_Tank Mix - Soybeans - Rate and Time of Application

Product	Product Rate	Weeds Controlled	Weed Size
RESOURCE 80 WP plus SCEPTER (1.5L) or (70DG)	1 Packet treats 6 Acres 0.54 oz./A plus 5 1/3 fl. oz./A or 1.4 oz./A	Common Cocklebur Pigweeds Redroot Smooth Common Sunflower Velvetleaf Refer to SCEPTER for additional weeds claimed. RESOURCE 80 WP may enhance the activity of SCEPTER under some conditions.	up to 8 inches up to 3 inches up to 3 inches up to 4 inches up to 6 leaf

Adjuvant: RESOURCE 80 WP plus SCEPTER tank mix must be applied with 1 qt./A crop oil concentrate or methylated seed oil or 0.25% v/v (1 qt./100 gals.) non-ionic surfactant. The use of a crop oil concentrate is preferable if environmental and crop conditions permit.

### Use Restrictions for RESOURCE 80 WP plus SCEPTER Herbicide Tank Mix:

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- 1. Always read and follow all label directions when using any pesticide alone or in tank mix combinations. The most restrictive labeling applies when using a tank mix.
- 2. Read and observe all precautions, restrictions, conditions and guidelines on the SCEPTER label.
- 3. Do not apply more than 1.62 oz./A of RESOURCE 80 WP in a single application or more than a total of 2.16 oz./A to soybeans during a single growing season.
- 4. Do not apply the RESOURCE 80 WP plus SCEPTER tank mix within 90 days of harvest.
- 5. Do not graze animals on green forage or stubble. Do not utilize hay or straw for animal feed or bedding.
- 6. Do not apply RESOURCE 80 WP plus SCEPTER tank mix if rain is expected within 1 hour of application; otherwise unsatisfactory weed control may result.
- 7. Do not tank mix SELECT 2EC with RESOURCE 80 WP plus SCEPTER.

### TANK MIX WITH REFLEX® HERBICIDE FOR CONTROL OF BROADLEAF WEEDS IN SOYBEANS

Ground Application: Apply in a minimum of 10 gals. water per acre and a spray pressure of 40 to 60 PSI measured at the nozzle. For best results, use a minimum of 15 to 20 gals. water per acre and a spray pressure of 50 to 60 PSI measured at the nozzle if weed populations are moderate to heavy and/or weeds are approaching maximum controllable size and/or the crop canopy is dense.

Recommended Mixing Order: Thoroughly mix RESOURCE 80 WP in water, add REFLEX, add crop oil concentrate or methylated seed oil and then add nitrogen fertilizer solution.

### Table S8.

RESOURCE 80 WP & REFLEX Herbicide Tank Mix - Soybeans - Rates and Time of Application

Product	Product Rate	Broadleaf Weeds Controlled	Leaf Stage
RESOURCE 80 WP plus REFLEX (2 L)	1 Packet treats 6 Acres 0.54 oz./A plus 16 fl. oz./A	Common Ragweed Smooth Pigweed Velvetleaf Refer to REFLEX label for addition weeds claimed. RESOURCE 80 WP may enhance to REFLEX under some conditions.	
Adjuvant: RESOURCE 80	WP plus REFLEX tank mix	REFLEX under some conditions.	il concentrate or

Adjuvant: RESOURCE 80 WP plus REFLEX tank mix must be applied with 1 qt./A crop bil concentrate or methylated seed oil. A spray grade nitrogen fertilizer solution (28-32% N) at 1 to 2 qts./A or spray grade ammonium sulfate at 2.0 to 2.5 lbs./A may be added to enhance weed control. The addition of a nitrogen source may increase crop response.

SELECT 2EC Herbicide may be added to the RESOURCE 80 WP plus REFLEX tank mix at 6 to 8 fl. oz./A for control of annual grasses. Use the high rate under heavy grass pressure and/or when grasses are approaching maximum controllable height. A second application of SELECT 2 EC may be necessary in some situations. If SELECT 2 EC is included in this tank mix, the SELECT 2 EC should be added last, just prior to application. A spray grade nitrogen fertilizer solution (28-32% N) at 1 to 2 qts./A or spray grade ammonium sulfate at 2.0 lbs./A may be added to enhance weed control. The addition of a nitrogen source may increase crop response. The spray grade fertilizer does not replace the requirement for crop oil concentrate or methylated seed oil. Refer to the SELECT 2 EC label for a list and growth stages of annual grasses controlled, precautions, restrictions, information on antagonism and other information. For control of perennial grasses, such as rhizome johnsongrass, it is recommended that SELECT 2 EC be used as a sequential application at least 1 day before or 7 days after the RESOURCE 80 WP plus REFLEX tank mix. Refer to the SELECT 2 EC label for perennial grasses, rates and adjuvants recommended.

### Use Restrictions for RESOURCE 80 WP plus REFLEX Herbicide Tank mix:

- 1. Always read and follow all label directions when using any pesticide alone or in tank mix combinations. The most restrictive labeling applies when using a tank mix.
- Read and observe all precautions, restrictions and conditions on the REFLEX label. NOTE: The REFLEX label contains regional use restrictions including regions where application is prohibited and maximum seasonal application rates for various regions.
- 3. Do not apply more than 1.62 oz./A of RESOURCE 80 WP in a single application or more than a total of 2.16 oz./A to soybeans during a single growing season.
- 4. Do not apply the RESOURCE 80 WP plus REFLEX tank mix within 80 days of harvest. Do not apply after onset of bloom.
- 5. Thoroughly clean spray tank with water and a commercial tank cleaner before and after each use.
- 6. Only crop oil concentrates or methylated seed oils cleared for use on growing crops under 40 CFR 180.1001 may be used in RESOURCE 80 WP/REFLEX tank mixes.
- 7. RESOURCE 80 WP/REFLEX tank mix requires a four hour rain free period. Do not apply if rain is threatening.
- 8. Apply to actively growing weeds. Do not apply to weeds which are under drought stress, including cold temperature such as when maximum day temperature is below 70°F., or when soil temperature is below 60°F., as reduced weed control may result.
- 9. Avoid applying RESOURCE 80 WP/REFLEX herbicide tank mix to soybeans which have been under stress from drought, hail damage, flooding or herbicide damage.
- 10. Avoid overlapping spray swaths, as injury may occur to rotational crops.

- 11. Avoid drift to all other crops and non-target areas. Crops other than soybeans may be severely injured by drift.
- 12. Do not graze treated areas or harvest for forage or hay.

### **Rotational Crop Restrictions**

Crop To Be Planted	Minimum Rotational Interval (Months After Last REFLEX Application)	
Small grains such as wheat, barley, rye	4	
Corn, cotton, peanuts, rice	10	
Sunflowers, sugarbeets, sorghum, or any other crop within	18	

Do not graze rotated small grain crop or harvest forage or straw for livestock

In the event of crop loss due to weather conditions scybeans can be replanted.

This label contains directions for use which do not appear on the package labels of RESOURCE 80 WP or REFLEX Herbicide. Follow instructions carefully.

TANK MIX WITH GALAXY® HERBICIDE FOR CONTROL OF BROADLEAF WEEDS IN SOYBEANS

**Ground Application:** Apply in 20 to 30 gals, water per acre and a spray pressure of 40 to 60 PSI measured at the nozzle. For best results use a spray pressure of 50-60 PSI measured at the nozzle if weed populations are moderate to heavy and/or weeds are approaching maximum controllable size and/or the crop canopy is dense.

Recommended Mixing Order: Thoroughly mix RESOURCE 80 WP in water, add GALAXY, add crop oil concentrate or methylated seed oil and then add nitrogen fertilizer solution.

### Table S9.

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BESOURCE 80 WP & G	ALAXY Herbicide Tank Mix	- Sovbeans - Bates and	Time of Application

Product	Product Rate	Broadleaf Weeds Controlled	Leaf Stage
RESOURCE 80 WP	1 Packet treats 6	Common Cocklebur	up to 4
	Acres	Common Lambsquarters*	up to 4
	0.54 oz./A	Common Ragweed	up to 4
plus		Pennsylvania Smartweed	up to 4
GALAXY (3.67 L)	plus	Pigweeds	· ·
	24 - 32 fl. oz./A	Redroot	up to 4
	21 02 11 02	Smooth	up to 4
		Prickly Sida	up to 4
		Velvetleaf	up to 6
		Refer to GALAXY label for	
		additional weeds claimed.	: ·
		RESOURCE 80 WP may enhance	:
		the activity of GALAXY under some conditions.	: :

Adjuvant: RESOURCE 80 WP plus GALAXY tank mix must be applied with 1 pt./A crop oil concentrate or methylated seed oil. A spray grade nitrogen fertilizer solution (28 - 32%) at 1 to 2 qts./A or spray grade ammonium sulfate at 2 lbs./A may be added to enhance weed control. The addition of a nitrogen source may increase crop response.

SELECT 2EC Herbicide may be added to the RESOURCE 80 WP plus GALAXY tank mix at 8 to 10 fl. oz./A for control of annual grasses. Use the high rate under heavy grass pressure and/or when grasses are approaching maximum controllable height. A second application of SELECT 2 EC may be necessary in some situations. If SELECT 2 EC is included in this tank mix, the SELECT 2 EC should be added last, just prior to application. A spray grade nitrogen fertilizer solution (28-32% N) at 1 to 2 qts./A or spray grade ammonium sulfate at 2.0 lbs./A may be added to enhance weed control. The addition of a nitrogen source may increase crop response. The spray grade fertilizer does not replace the requirement for crop oil concentrate or methylated seed oil. Refer to the SELECT 2 EC label for a list and growth stages of annual grasses controlled, precautions, restrictions, information on antagonism and other information. For control of perennial grasses, such as rhizome johnsongrass, it is recommended that SELECT 2 EC be used as a sequential application at least 1 day before or 7 days after the RESOURCE 80 WP plus GALAXY tank mix. Refer to the SELECT 2 EC label for perennial grasses controlled, growth stages, rates and adjuvants recommended.

### Use Restrictions for RESOURCE 80 WP plus GALAXY Herbicide Tank Mix:

- 1. Always read and follow all label directions when using any pesticide alone or in tank mix combinations. The most restrictive labeling applies when using a tank mix.
- 2. Read and observe all precautions, restrictions and conditions on the GALAXY label.
- Do not apply more than 1.62 oz./A of RESOURCE 80 WP in a single application or more than a total of 2.16 oz./A to soybeans during a single growing season.
- 4. Do not apply the RESOURCE 80 WP plus GALAXY tank mix within 60 days of harvest.
- 5. Do not graze animals on green forage or stubble. Do not utilize hay or straw for animal feed or bedding.
- 6. Do not apply the RESOURCE 80 WP plus GALAXY tank mix if rain is expected within 4 hours after application; otherwise unsatisfactory weed control may result.

<sup>\*</sup>Due to environmental conditions and other factors influencing the growth, development and physiological condition of lambsquarters, control may be partial or inconsistent.

### TANK MIX WITH STORM® HERBICIDE FOR CONTROL OF BROADLEAF WEEDS IN SOYBEANS

**Ground Application:** Apply in 20 to 30 gals, water per acre and a spray pressure of 40 to 60 PSI measured at the nozzle. For best results use a spray pressure of 50 to 60 PSI measured at the nozzle if weed populations are moderate to heavy and/or weeds are approaching maximum controllable size and/or the crop canopy is dense.

Recommended Mixing Order: Thoroughly mix RESOURCE 80 WP in water, add STORM and then add crop oil concentrate or methylated seed oil.

### Table S10.

RESOURCE 80 WP & STORM Herbicide Tank Mix - Soybeans - Rates and Time of Application

Product	Product Rate	Broadleaf Weeds Controlled	Leaf Stage
RESOURCE 80 WP	1 Packet treats 6	Black Nightshade	up to 4
	Acres	Common Lambsquarters	up to 4
	0.54 oz./A	Pennsylvania Smartweed	up to 6
plus	0.04 02.74	Prickly Sida	up to 3
STORM (4 S)	pius	Raqweeds	•
	24 fl. oz./A	Čommon	up to 6
		Giant	up to 4
		Velvetleaf	up to 6
		Refer to STORM label for additional weeds claimed.	,
		RESOURCE 80 WP may enhance the activity of STORM under some conditions.	

Adjuvant: RESOURCE 80 WP plus STORM tank mix must be applied with 1 pt./A crop oil concentrate or methylated seed oil.

### Use Restrictions for RESOURCE 80 WP plus STORM Herbicide Tank Mix:

- 1. Always read and follow all label directions when using any pesticide alone or in tank mix combinations. The most restrictive labeling applies when using a tank mix.
- 2. Read and observe all precautions, restrictions and conditions on the STORM label.
- 3. Do not apply more than 1.62 oz./A of RESOURCE 80 WP in a single application or more than a total of 2.16 oz./A to soybeans during a single growing season.
- 4. Do not apply the RESOURCE 80 WP plus STORM tank mix within 60 days of harvest.
- 5. Do not graze animals on green forage or stubble. Do not utilize hay or straw for animal feed or bedding,
- 6. Do not apply the RESOURCE 80 WP plus STORM tank mix if rain is expected within 4 hours after application; otherwise unsatisfactory weed control may result.

<sup>•</sup>Due to environmental conditions and other factors influencing growth, development and physiological condition of lambsquarters, control may be partial or inconsistent.

### TANK MIX WITH PINNACLE® HERBICIDE FOR CONTROL OF BROADLEAF WEEDS IN SOYBEANS

Ground Application: Apply in 10 to 25 gals. water per acre and spray pressure of 40 to 60 PSI measured at the nozzle. For best results, apply in 15 to 20 gals. water per acre and a spray pressure of 50-60 PSI measured at the nozzle if weed populations are moderate to heavy and/or weeds are approaching maximum controllable size and/or the crop canopy is dense.

**Recommended Mixing Order:** Thoroughly disperse PINNACLE in water, add RESOURCE 80 WP, add crop oil concentrate or methylated seed oil, and then add nitrogen fertilizer solution.

### Table S11.

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RESOURCE 80 WP & PINNACLE Herbicide Tank Mix - Soybeans - Rates and Time of Application

	Product Rates	Broadleaf Weeds Controlled	Weed Size	
Product			PINNACLE <sup>*</sup> .125 oz./A	PINNACLE** .25 oz./A
RESOURCE 80 WP	1 Packet treats 6 Acres 0.54 oz./A	Common Lambsquarters Pennsylvania Smartweed Pigweeds Redroot	2 to 3 inches 2 to 3 inches 2 to 8 inches	2 to 4 inches 2 to 4 inches 2 to 12 inches
<b>plus</b> PINNACLE (25 DF)	plus .12525 oz./A	Smooth Velvetleaf	2 to 4 inches 2 to 4 inches 2 to 4 inches	2 to 8 inches 2 to 6 inches
		Refer to PINNACLE label for additional weeds claimed.		
		RESOURCE 80 WP may enhance the activity of PINNACLE under some conditions.		

methylated seed oil at 1 pt./A plus a spray grade nitrogen fertilizer solution (28-32% N) at 1 to 2 qts./A. \*\*Adjuvant: RESOURCE 80 WP plus PINNACLE at 0.25 oz./A tank mix must be applied with non-ionic surfactant at 0.25% v/v plus a spray grade nitrogen fertilizer solution (28-32% N) at 1 to 2 gts./A.

SELECT 2EC Herbicide may be added to the RESOURCE 80 WP plus PINNACLE at 0.125 oz./A tank mix at 6 to 8 fl. oz./A for control of annual grasses. Use the high rate under heavy grass pressure and/or when grasses are approaching maximum controllable height. A second application of SELECT 2 EC may be necessary in some situations. If SELECT 2 EC is included in this tank mix, the SELECT 2 EC should be added last, just prior to application. A spray grade nitrogen fertilizer solution (28-32% N) at 1 to 2 qts./A or spray grade ammonium sulfate at 2.0 lbs./A may be added to enhance weed control. The addition of a nitrogen source may increase crop response. The spray grade fertilizer does not replace the requirement for crop oil concentrate or methylated seed oil. Refer to the SELECT 2 EC label for a list and growth stages of annual grasses controlled, precautions, restrictions, information on antagonism and other information. For control of perennial grasses, such as rhizome johnsongrass, it is recommended that SELECT 2 EC be used as a sequential application at least 1 day before or 7 days after the RESOURCE 80 WP plus PINNACLE tank mix. Refer to the SELECT 2 EC label for perennial grasses controlled, growth stages, rates and adjuvants recommended.

### Use Restrictions for RESOURCE 80 WP plus PINNACLE Herbicide Tank mix:

- 1. Always read and follow all label directions when using any pesticide alone or in tank mix combinations. The most restrictive labeling applies when using a tank mix.
- 2. Carefully read and observe all restrictions, precautions, and conditions on the PINNACLE label.
- 3. Do not apply more than 1.62 oz./A of RESOURCE 80 WP in a single application or more than a total of 2.16 oz./A to soybeans during a single growing season.
- 4. Do not apply the RESOURCE 80 WP plus PINNACLE tank mix within 60 days of harvest.
- 5. Do not graze animals on green forage or stubble. Do not utilize hay or straw for animal feed or bedding.
- 6. Do not apply the RESOURCE 80 WP plus PINNACLE tank mix if rain is expected within 1 hour of application; otherwise unsatisfactory weed control may result.
- 7. Do not use DASH<sup>\*</sup> HC spray adjuvant.

### PINNACLE SEQUENTIAL TREATMENTS

Sequential applications of PINNACLE following postemergent PURSUIT<sup>®</sup> treatments are not recommended because:

- 1. Crop injury from sequential postemergence applications of PINNACLE following PURSUIT is greater than from the use of either product applied alone. The 1st application interferes with the soybean's ability to metabolize the 2nd herbicide treatment. Sequential applications may result in severe crop injury.
- Any weeds not controlled by the PURSUIT application will be stressed at the time of the sequential treatment. This will result in unsatisfactory weed control, particularly for stress sensitive weeds such as lambsquarters.

Even though not recommended for sequential application, a minimum interval of at least 14 days between applications of PINNACLE following PURSUIT is required to reduce the potential for crop injury and unsatisfactory weed control. The soybeans should be free from stress (herbicide or environmental) and actively growing. Weeds should be free from stress and not exceed the labeled size (height) at the time of PINNACLE application.

### STORAGE AND DISPOSAL

### PROHIBITIONS

Do not contaminate water, food or feed by storage, disposal or cleaning of equipment. Open dumping is prohibited.

### STORAGE

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Store in a cool dry place. Protect from excessive heat.

Keep pesticide in original container.

Do not put concentrate or dilute into food or drink containers.

Not for use or storage in or around the home.

For help with any spill, leak, fire or exposure involving this material, call day or night 1-800-892-0099. **PESTICIDE DISPOSAL** 

Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

### CONTAINER DISPOSAL

Do not reuse the outer bag. Dispose of outer bag in a sanitary landfill, or by incineration if allowed by state and local authorities.

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ACCENT<sup>®</sup> - Reg. TM of E. I. DuPont de Nemours & Co., Inc. BANVEL® - Reg. TM of Sandoz Crop Protection Corp. BASAGRAN® - Reg. TM of BASF Corp. BEACON<sup>®</sup> - Reg. TM of Ciba-Geigv Corp. CLARITY® - Reg. TM of Sandoz Agro, Inc. CLASSIC<sup>®</sup> - Reg. TM of E. I. DuPont de Nemours & Co., Inc. COBRA® - Reg. TM of Valent USA Corp. DASH<sup>®</sup> - Reg. TM of BASF Corp. EXCEED® - Reg. TM of Ciba-Geigy Corp. GALAXY<sup>®</sup> - Reg. TM of BASF Corp. MARKSMAN<sup>®</sup> - Reg. TM of Sandoz Agro, Inc. PINNACLE® - Reg. TM of E. I. DuPont de Nemours & Co., inc. PURSUIT<sup>®</sup> - Reg. TM of American Cyanamid Co. REFLEX® - Reg. TM of Zeneca, Inc. RESOURCE® - Reg. TM of Valent USA Corp. SCEPTER® - Reg. TM of American Cyanamid Co. SELECT<sup>®</sup> - Reg. TM of Valent USA Corp. STORM<sup>®</sup> - Reg. TM of BASF Corp. TOUGH® - Reg. TM of Sandoz Agro, Inc.

Manufactured for Valent U. S. A. Corporation Walnut Creek, CA 94596-8025 Form R5125A0.0970610 EPA Est. 5905-GA-1 Made in U. S. A. EPA Reg. No. 59639-xx