UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

December 1, 2021

Robert L. Hamilton
Sr. Regulatory Scientist
Valent U.S.A. Corporation
1600 Riviera Ave., Suite 200
Walnut Creek, CA 94596-8025

Subject: Registration Review Label Mitigation for flumiclorac-pentyl
Product Name: Resource Herbicide
EPA Registration Number: 59639-82
Application Date: 06/01/2018
Decision Number: 580337

Dear Mr. Hamilton:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the flumiclorac-pentyl Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

If you have any questions about this letter, please contact Srijana Shrestha by phone at 202-566-2329, or via email at shrestha.srijana@epa.gov.

Sincerely,

Linda Arrington, Branch Chief
Risk Management and Implementation Branch 4
Pesticide Re-Evaluation Division
Office of Pesticide Programs

Enclosure: Stamped Label

VALENT®

FLUMICLORAC-PENTYL	GROUP	14	HERBICIDE

RESOURCE® HERBICIDE

Active Ingredient	By Wt.
Flumiclorac pentyl ester*	10.1%
Other Ingredients	89.9%
Total	100.0%

*pentyl [2-chloro-4-fluoro-5-(1,3,4,5,6,7-hexahydro-1,3-dioxo-2H-isoindol-2-yl)phenoxy]acetate

Contains aromatic petroleum distillates.
Contains 0.86 pounds flumiclorac pentyl ester per gallon.

KEEP OUT OF REACH OF CHILDREN

WARNING - AVISO

SEE NEXT [PAGE][PANEL] FOR ADDITIONAL PRECAUTIONARY STATEMENTS

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, please find someone to explain it to you in detail.)

NET CONTENTS 1 GALLON
EPA Reg. No. 59639-82
EPA Est.

ACCEPTED
Dec 01, 2021
Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 59639-82

FIRST AID	
If in eyes:	• Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If on skin or clothing:	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If swallowed:	• Immediately call a poison control center or doctor. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give **any** liquid to the person. • Do not give anything by mouth to an unconscious person.
If inhaled:	• Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for treatment advice.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For non-emergency information on this product, call (1-800-6-VALENT (682-5368), Monday through Friday, 9 a.m. to 5 p.m. For medical emergencies, call the poison control center at 1-800-892-0099.

NOTE TO PHYSICIAN

Ingestion of this product or subsequent vomiting can result in aspiration of light hydrocarbon liquid, which can cause pneumonitis. If ingested, probable mucosal damage may contraindicate the use of gastric lavage.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

WARNING:

Causes substantial but temporary eye injury. Causes skin irritation. Harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin or on clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear: coveralls worn over short-sleeved shirt and short pants, chemical-resistant gloves such as barrier laminate or Viton $\geq$ 14 mils, chemical resistant footwear plus socks, and protective eyewear.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, 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:

- 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.

NON-TARGET ORGANISM ADVISORY STATEMENT

This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following the label directions intended to minimize spray drift.

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 restricted-entry interval. For any requirements specific to your State, consult the agency in your State responsible for pesticide regulation.

Do not enter or allow worker 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 worn over short-sleeved shirts and short-pants, chemical-resistant gloves such as barrier laminate or Viton $\geq$ 14 mils, chemical-resistant footwear plus socks, and protective eyewear.

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PRODUCT INFORMATION

Resource Herbicide is a selective herbicide for postemergence control of susceptible broadleaf weeds in field corn and soybeans.

RESTRICTIONS

- Do not apply this product through any type of irrigation system.
- Do not make more than two applications per acre per year.

***Resource* Herbicide Rate Summary**	
fluid ounces of *Resource* Herbicide	**Pounds of Flumiclorac-pentyl**
2	0.013
4	0.027
6	0.040
8	0.054
12	0.081
16	0.108

ENVIRONMENTAL CONDITIONS AND BIOLOGICAL PERFORMANCE

For best results, Apply *Resource* Herbicide to actively growing weeds within the growth stages indicated in this label. Applying *Resource* Herbicide under conditions that do not promote active weed growth will reduce herbicide effectiveness. Do not apply *Resource* Herbicide when the crop or weeds are under stress due to drought, excessive water, extremes in temperature, disease or low humidity. Weeds under stress tend to become less susceptible to herbicidal action. *Resource* Herbicide is most effective when applied under sunny conditions at temperatures above 70°F.

RAINFASTNESS

Resource Herbicide is rainfast one hour after application. Do not apply *Resource* Herbicide if rain is expected within one hour of application or efficacy may be reduced.

ADDITIVES

Control of weeds by *Resource* Herbicide requires the addition of an agronomically approved adjuvant to the spray mixture. Use either a crop oil concentrate or methylated seed oil, which contains at least 15% emulsifiers and 80% oil, when applying *Resource* Herbicide. Certain tank mixes require the use of a non-ionic surfactant. Non-ionic surfactant must contain at least 80% active ingredient and must be EPA approved for use on food crops. Verify mixing and compatibility qualities by a jar test.

A spray grade nitrogen source (either ammonium sulfate at 2.0 to 2.5 lb/A or 28 to 32% nitrogen solution at 1 to 2 qt/A) may be added to the spray mixture along with either crop oil concentrate, methylated seed oil or non-ionic surfactant to enhance weed control. The addition of a nitrogen source does not replace the need for crop oil concentrate, methylated seed oil, or non-ionic surfactant.

JAR TEST TO DETERMINE COMPATIBILITY OF ADJUVANTS AND *RESOURCE* HERBICIDE

Perform a jar test before mixing commercial quantities of *Resource* Herbicide when using *Resource* Herbicide for the first time, when using new adjuvants, or when a new water source is being used.

1. Add 1 pt of the water to a quart jar. Use the water from the same source and temperature as will be used in the spray tank mixing operation.
2. Add 1 ml of *Resource* Herbicide to the quart jar, gently mix until product dissipates.
3. Add 6 ml (1 tsp) of the crop oil concentrate or methylated seed oil to the quart jar, gently mix. If a non-ionic surfactant is being used in a tank mix, add 2.5 ml (0.3 tsp) of the non-ionic surfactant in place of the oil.
4. If nitrogen is being used, add 16 ml (1 tbsp or 0.5 oz) of the 28 to 32% nitrogen source to the quart jar. If ammonium sulfate is being used, add 19 gms AMS to the quart jar in place of the 28 to 32% nitrogen. Add Ammonium sulfate to the jar before the *Resource* Herbicide in step 2.
5. Place cap on jar, invert 10 times, let stand for 15 minutes, evaluate.

6. An ideal tank mix combination will be uniform and free of suspended particles. If any of the following conditions are observed question the choice of adjuvant:
   a) Layer of oil or globules on the mixture's surface.
   b) Flocculation: fine particles in suspension or as a layer on the bottom of the jar.
   c) Clabbering: Thickening texture (coagulated) like gelatin.

MIXING INSTRUCTIONS

1. Fill spray tank with water 1/3 to 1/2 of desired level with clean water.
2. While agitating, add the required amount of *Resource* Herbicide. Agitation creates a rippling or rolling action on the water surface. If tank mixing *Resource* Herbicide with other labeled pesticides, add water soluble bags first, followed by dry formulations, flowables, emulsifiable concentrates and then solutions. Prepare no more spray mixture than is required for the immediate spray operation.
3. Add any required adjuvants.
4. Add any required nitrogen source, unless ammonium sulfate (AMS) is being used. If AMS is being used as the nitrogen source, add after water soluble bags and before dry pesticides.
5. Fill spray tank to desired level with water. Continue agitation until spray solution has been applied.
6. Mix only the amount of spray solution that can be applied the day of mixing. *Resource* Herbicide will remain active in the spray solution for 12 hours.

GROUND APPLICATION

EQUIPMENT

Ensure application equipment is clean and in good repair. Nozzles should be uniformly spaced on boom and frequently checked for accuracy. Ground speed should not exceed 10 mph to provide proper spray coverage. Boom height, ground speed, and pressure recommendations, should not exceed those recommended by the spray nozzle manufacturer for the type and size of nozzle being used. Improper use of the selected spray nozzle will adversely affect the spray pattern, prevent proper coverage of weed leaf surface, and reduce weed control. Refer to the manufacturer's spray chart for nozzle selection and operating information. Special attention should be given to preparing and operating the spray equipment to assure proper coverage of weed foliage.

BROADCAST APPLICATION

Apply *Resource* Herbicide and *Resource* 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. Spray nozzles should be centered at a maximum of 20 inch spacing to provide adequate coverage.

CARRIER VOLUME AND SPRAY PRESSURE

Use *Resource* Herbicide on a broadcast basis in a minimum of 15 gallons of water per acre and a spray pressure of 35 to 60 PSI measured at the spray nozzle. If weed populations are moderate to heavy and/or weeds are approaching maximum label size and/or crop canopy is dense, use a minimum of 20 GPA of water and a spray pressure of 40 to 50 PSI. Nozzle selection must meet manufacturer's gallonage and pressure guidelines for postemergence herbicide application.

BAND APPLICATION

When banding, use proportionately less water and *Resource* Herbicide per acre. Adjust banding equipment 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.

AERIAL APPLICATION

To obtain satisfactory performance with aerial application of *Resource* Herbicide, use as part of a labeled tank mix. Uniform coverage must be obtained. To obtain satisfactory application and avoid drift, the following directions must be observed:

- Do not apply more than 8 fl oz/A by air in a single application.

Carrier Volume and Spray Pressure

Use *Resource* Herbicide in 7 to 10 gallons per acre of water for spring burndown programs. Use *Resource* Herbicide in 5 to 10 gallons per acre of water for defoliation. Application at less than recommended volume may provide inadequate results. The higher gallonage applications generally result in more consistent performance.

Nozzle and Nozzle Orientation

Coarse sprays are less likely to drift; therefore, do not use nozzles or nozzle configurations which dispense spray as fine droplets. Use the largest droplet size possible that provides sufficient coverage and control. Use nozzles which produce flat or hollow cone spray patterns. Use non-drip type nozzles, such as diaphragm-type nozzles to avoid unwanted discharge of spray solution.

Angle nozzles toward the rear of the aircraft, at an angle between 0º and 15º downward.

Adjuvants and Drift Control Additives

Refer to tank mix partner's label for adjuvant selection. Drift control additives may be used. When a drift control additive is used, read and carefully observe the cautionary statements and all other information appearing on the additive label.

MANDATORY SPRAY DRIFT MANAGEMENT

Aerial Application

- Do not release spray at a height greater than 10 feet above the vegetative canopy, unless a greater application height is necessary for pilot safety.
- For aerial application, applicators are required to use a Medium or coarser droplet size (ASABE S572.1).
- The boom length must not exceed 75% of the wingspan for airplanes or 90% of the rotor blade diameter for helicopters.
- Applicators must use 1/2 swath displacement upwind at the downwind edge of the field.
- Nozzles must be oriented so the spray is directed toward the back of the aircraft.
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

Ground Boom Application

- Apply with the nozzle height recommended by the manufacturer, but no more than 3 feet above the ground or crop canopy.
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

SPRAY DRIFT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.
BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

Controlling Droplet Size – Ground Boom

- Volume – Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure – Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle – Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

Controlling Droplet Size – Aircraft

- Adjust Nozzles – Follow nozzle manufacturer's recommendations for setting up nozzles. Generally, reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

BOOM HEIGHT – Ground Boom

Use the lowest boom height that is compatible with the spray nozzles that will provide uniform coverage. For ground equipment, the boom should remain level with the crop and have minimal bounce.

RELEASE HEIGHT - Aircraft

Higher release heights increase the potential for spray drift. When applying aerially to crops, do not release spray at a height greater than 10 feet above the crop canopy, unless a greater application height is necessary for pilot safety.

SHEILDED SPRAYERS

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

WIND

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.

Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

APPLICATION AND CULTIVATION

Do not cultivate prior to or during application. Do not generate excessive dust while spraying. Excessively dusty conditions may interfere with the coverage of the weed leaf surface by the spray solution. A timely cultivation approximately one week after application will assist in weed control.

SEQUENTIAL APPLICATIONS

A sequential application of *Resource* Herbicide can be made after a minimum of 14 days have passed following the first application of *Resource* Herbicide to control new flushes of susceptible weeds in field corn and soybeans.

CROP FAILURE

If the crop treated with *Resource* Herbicide is lost due to a catastrophe, such as hail or other forms of inclement weather, refer to crop Rotational Restrictions below.

ROTATIONAL RESTRICTIONS
Do not rotate to crops other than cotton, field corn or soybeans within 30 days after last *Resource* Herbicide application.

RESISTANCE MANAGEMENT

For resistance management, *Resource* Herbicide is a Group 14 herbicide. Any weed population may contain or develop plants naturally resistant to *Resource* Herbicide and other Group 14 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance, take one or more of the following steps:

- Rotate the use of *Resource* Herbicide or other Group 14 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or certified crop advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and crop rotation, and that considers tillage (or other mechanical control methods), cultural (e.g., higher crop seeding rates; precision fertilizer application method and timing to favor the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Fields should be scouted prior to application to identify the weed species present and their growth stage to determine if the intended application will be effective. Fields should be scouted after application to verify that the treatment was effective. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method such as hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- If a weed pest population continues to progress after treatment with this product discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or certified crop advisors for additional pesticide resistance-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact Valent U.S.A. LLC at 800-6-VALENT (682-5368)

DIRECTIONS FOR USE IN SPRING BURNDOWN PROGRAMS (Prior to crop emergence in cotton, field corn and soybean)

Resource Herbicide, at 2 to 4 fl oz/A, can be used in combination with labeled burndown herbicides to help control emerged weeds prior to crop emergence. The addition of *Resource* Herbicide to burndown herbicides such as glyphosate and 2,4-D has been shown to increase the speed of control of many weeds as well as increase overall burndown of Carolina geranium, cutleaf evening primrose and smartweeds. Refer to glyphosate and/or 2,4-D labels for weeds controlled and rotational restrictions.

DIRECTIONS FOR USE IN FIELD CORN

Do not use *Resource* Herbicide on popcorn or sweet corn.

USE RESTRICTIONS FOR *RESOURCE* HERBICIDE APPLIED TO FIELD CORN

- Do not apply *Resource* Herbicide to field corn before the 2-leaf or after the 10-leaf stage.
- Do not apply more than 6 fl oz/A of *Resource* Herbicide as a broadcast application or8 fl oz/A as a directed spray using drop nozzles per application.
- Do not make more than 1 application per year.
- Do not apply more than 8 fl oz/A per year.
- Do not graze animals on green forage or use as feed fewer than 28 days after *Resource* Herbicide application.

USE INFORMATION

Resource Herbicide can be used on field corn grown for commercial seed production. However, do not apply *Resource* to seed corn without first verifying with your seed corn supplier the *Resource* Herbicide 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.

TIMING TO FIELD CORN

Apply *Resource* Herbicide 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. A temporary crop response may be observed following a postemergence broadcast application of *Resource* Herbicide. Corn quickly outgrows all initial herbicide effects. When *Resource* Herbicide is used as directed, corn yields will not be adversely affected.

TIMING TO WEEDS

Identify weed species as early as possible. Rates, weed species and maximum weed heights for effective control with *Resource* Herbicide as a stand-alone broadcast or drop nozzle application are indicated in Table 1. Tank mixes are listed in Table 2.

DROP NOZZLE APPLICATIONS

Make drop nozzle application 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, use 1 qt/A of crop oil concentrate. Since the activity of *Resource* Herbicide 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. Do not apply *Resource* Herbicide directly into the corn whorl when making a post directed application.

Table 1. *Resource* Herbicide Rates and Weed Sizes for Broadcast and Drop Nozzle Application in Field Corn

BROADCAST APPLICATION RATES AND TIMING				
Common Name	**Scientific Name**	**Crop Oil Concentrate Rate**	**Application Rates**	
			Leaf Stage	
			4 fl oz/A	**6 fl oz/A**
Weeds Controlled				
Common Ragweed	*Ambrosia artemisiifolia*		-	up to 3
Smooth Pigweed	*Amaranthus hybridus*		-	up to 3
Velvetleaf	*Abutilon theophrasti*		up to 5	up to 6
Weeds Suppressed		1 pt/A		
Common Lambsquarters	*Chenopodium album*		-	up to 3
Common Ragweed	*Ambrosia artemisiifolia*		up to 2	up to 4
Palmer Amaranth	*Amaranthus palmeri*		-	up to 4
Smooth Pigweed	*Amaranthus hybridus*		up to 3	up to 4
Adjuvant: *Resource* Herbicide must be applied with 1 pt/A of crop oil concentrate or methylated seed oil. A spray grade nitrogen source (either ammonium sulfate at 2.0 to 2.5 lb/A or 28 to 32% nitrogen solution at 1 to 2 qt/A) may be added to enhance weed control.				

DROP NOZZLE APPLICATION RATES AND TIMING					
Common Name	**Scientific Name**	**Crop Oil Concentrate Rate**	**Application Rates Leaf Stage**		
			4 fl oz/A	**6 fl oz/A**	**8 fl oz/A**
Weeds Controlled					
Common Ragweed	*Ambrosia artemisiifolia*		-	up to 4	up to 6
Jimsonweed	*Datura stramonium*		-	-	up to 4
Pigweeds					
Prostrate	*Amaranthus blitoides*		-	up to 3	up to 6
Smooth	*Amaranthus hybridus*		-	up to 3	up to 4
Prickly Sida	*Sida spinosa*		-	up to 3	up to 4
Velvetleaf[1]	*Abutilon theophrasti*	1 qt/A	up to 6	up to 8	up to 10
Weeds Suppressed					
Common Cocklebur	*Xanthium strumarium*		-	-	up to 3
Common Lambsquarters	*Chenopodium album*		-	up to 3	up to 3
Pigweeds					
Palmer Amaranth	*Amaranthus palmeri*		-	up to 4	up to 4
Redroot	*Amaranthus retroflexus*		-	-	up to 2
Spotted Spurge	*Euphorbia maculata*		-	-	up to 2
Adjuvant: *Resource* Herbicide must be applied with 1 qt/A of crop oil concentrate or methylated seed oil. A spray grade nitrogen source (either ammonium sulfate at 2.0 to 2.5 lb/A or 28 to 32% nitrogen solution at 1 to 2 qt/A) may be added to enhance weed control.					

[1] The addition of a spray grade nitrogen fertilizer is recommended for velvetleaf control.

APPLICATION INFORMATION FOR TANK MIXES IN FIELD CORN

Apply *Resource* Herbicide at 4 to 8 fl oz/A to control the weeds listed in Table 1. To control additional weeds in field corn, tank mix *Resource* Herbicide with approved herbicides. Approved tank mix herbicides are indicated in Table 2. For best results, make *Resource* Herbicide tank mix applications to actively growing weeds. Do not apply *Resource* Herbicide tank mixes during periods when corn and/or weeds are under stress or when conditions do not favor active weed growth. For maximum control, weeds must receive thorough spray coverage.

Crop response from *Resource* Herbicide tank mix applications may be greater than that occurring from *Resource* Herbicide applied alone. Crop response from *Resource* Herbicide is temporary and does not adversely affect crop yield when applied according to the label use directions.

Always read and follow label directions for all tank mix products before using. The most restrictive labeling of any tank mix product must be followed. *Resource* Herbicide, when applied according to label use directions, will control the weeds listed in Table 1. This label makes no claims concerning control of other weed species.

Table 2. *Resource* Herbicide Tank Mix Combinations for use in Field Corn

2,4-D amine	Beacon®	Hornet®	Poast®(3)
2,4-D ester	bromoxynil	Laddok®	Poast Plus®(3)
Accent®	Buctril®	Liberty®(1)	Pursuit®(2)
atrazine	Clarity®	Lightning™®(2)	Roundup®(4)
Banvel®	glyphosate(4)	Northstar™	Roundup PowerMAX®(4)
Basis®		Permit®	Spirit™®
			Stinger®

(1)Use only on varieties legally designated as "Liberty Link®".
(2)Use only on varieties legally designated as "IMi-Corn®".
(3)Use only on varieties legally designated as "Poast Protective™".
(4)Use only on varieties legally designated as "Roundup Ready".

ADDED VELVETLEAF CONTROL IN FIELD CORN TANK MIXES

Tank mix *Resource* Herbicide at 4 fl oz/A to any of the tank mix partners listed in Table 2 to control velvetleaf up to the 6-leaf stage. *Resource* Herbicide, at 2 fl oz/A, may be added to the tank mix partners listed in Table 2 (with the exception of Poast, Poast Plus and Stinger) to control velvetleaf up to the 4-leaf stage. *Resource* Herbicide may be added to any labeled two- and three-way tank mix of products listed in Table 2 for enhanced velvetleaf control. Refer to tank mix partner's label for adjuvants.

ROUNDUP READY PROGRAM IN FIELD CORN

Resource Herbicide can be added to glyphosate containing products labeled for use in field corn for increased control of velvetleaf. Refer to Table 3 for product and rates.

Table 3. *Resource* Herbicide Tank Mixes in Roundup Ready(1) Systems for Increased Velvetleaf Control(2)

		***Resource* Herbicide Rates and Velvetleaf Size**		
		Leaf Stage		
Product	**Rates**	**2 fl oz/A**	**3 fl ozA**	**4 fl oz/A**
Glyphosate	0.75 to 1.5 lb ai/A	6	7	8
Roundup PowerMAX	20 to 40 fl oz/A	6	7	8
Roundup	1.5 to 3.0 pt/A	6	7	8

(1) Use only on corn varieties legally designated as "Roundup Ready".
(2) Use adjuvant recommended on glyphosate containing product's label.

DIRECTIONS FOR USE IN SOYBEAN

USE RESTRICTIONS FOR *RESOURCE* APPLIED TO SOYBEAN

- Do not apply more than 12 fl oz/A of *Resource* Herbicide in a single application.
- Do not make more than 4 applications at the 4 fl oz/A use rate.
- Do not apply more than 16 fl oz/A per year.
- Do not apply *Resource* Herbicide if rain is expected within one hour of application; otherwise, unsatisfactory weed control may result.
- Do not graze treated fields or harvest for forage or hay.
- Do not apply *Resource* Herbicide within 60 days of harvest.

TIMING TO SOYBEANS

Resource Herbicide may be applied to soybeans until 60 days prior to harvest. A temporary crop response may be observed following a postemergence broadcast application of *Resource* Herbicide. Soybean leaves that are open at the time of application may show some burn or spotting. Soybean quickly outgrows all initial herbicide effects. When *Resource* Herbicide is used as directed, soybean yields will not be adversely affected.

TIMING TO WEEDS

Identify weed species as early as possible. Rates, weed species and maximum weed heights for effective control with *Resource* Herbicide as a stand-alone broadcast application are indicated in Table 4. Tank mixes are listed in Table 5.

Table 4. *Resource* Herbicide Rates and Weed Sizes for Broadcast Application in Soybean

BROADLEAF WEED CONTROL					
Common Name	**Scientific Name**	**Crop Oil Concentrate Rate**	**Application Rates**		
			Leaf Stage		
			4 fl oz/A	**6 fl oz/A**	**8 fl oz/A**
Weeds Controlled					
Common Ragweed	*Ambrosia artemisiifolia*		-	up to 4	up to 6
Cotton (Including Roundup Ready and Liberty Link)	*Gossypium hirsutum*		-	up to 2	up to 2
Jimsonweed	*Datura stramonium*		-	-	up to 4
Pigweeds			-		
Prostrate	*Amaranthus blitoides*		-	up to 3	up to 6
Smooth	*Amaranthus hybridus*		-	up to 3	up to 4
Prickly Sida	*Sida spinosa*	1 qt/A		up to 3	up to 4
Velvetleaf	*Abutilon theophrasti*		up to 6	up to 8	up to 10
Weeds Suppressed					
Common Cocklebur	*Xanthium strumarium*		-	-	up to 3
Common Lambsquarters	*Chenopodium album*		-	up to 3	up to 3
Pigweeds					
Palmer Amaranth	*Amaranthus palmeri*		-	up to 4	up to 4
Redroot	*Amaranthus retroflexus*		-	-	up to 2
Spotted Spurge	*Euphorbia maculata*		-	-	up to 2
Adjuvant: *Resource* Herbicide must be applied with 1 qt/A of crop oil concentrate or methylated seed oil. A spray grade nitrogen source (either ammonium sulfate at 2.0 to 2.5 lb/A or 28 to 32% nitrogen solution at 1 to 2 qt/A) may be added to enhance weed control.					

LATE CONTROL OF TALL VELVETLEAF			
Weeds Controlled	**Crop Oil Concentrate Rate**	**Application Rates**	
		8 fl oz/A	**12 fl oz/A**
Maximum Velvetleaf Growth Stage	1 qt/A	up to 10 leaf or 24 inches tall	up to 30 inches tall
Adjuvant: *Resource* Herbicide, when used alone, must be applied with 1 qt/A of crop oil concentrate. A spray grade nitrogen source (either ammonium sulfate at 2.0 to 2.5 lb/A or 28 to 32% nitrogen solution at 1 to 2 qt/A) may be added to enhance weed control.			

APPLICATION INFORMATION FOR TANK MIXES IN SOYBEAN

Apply *Resource* Herbicide at 4 to 12 fl oz/A to control the weeds listed in Table 4. To control additional weeds in soybeans, *Resource* Herbicide may be tank mixed with approved herbicides. Approved tank mixes are indicated in Table 5. For best results, apply *Resource* Herbicide tank mixes to actively growing weeds.

Do not apply *Resource* Herbicide tank mixes during periods when soybeans and/or weeds are under stress or when conditions do not favor active weed growth. For maximum control, weeds must receive thorough spray coverage.

Crop response from *Resource* Herbicide tank mix applications may be greater than that occurring from *Resource* Herbicide applied alone. Crop response from *Resource* Herbicide is temporary and does not adversely effect crop yield when applied following label use directions.

Always read and follow label directions for all tank mix products before using. The most restrictive labeling of any tank mix product must be followed. *Resource* Herbicide, when applied according to label use directions, will control the weeds listed in Table 4. This label makes no claims concerning control of other weed species.

Table 5. *Resource* Herbicide Tank Mix Combinations for Use in Soybean

Assure II®	Flexstar®	Poast	Roundup[3]
Basagran®	Fusilade® DX	Poast Plus	Scepter®
Classic®	Fusion®	Pursuit	Select®
Cobra®	glyphosate[3]	Raptor®	Storm™
Conclude® Ultra	Harmony® SG	Rezult®	Synchrony®[2]
FirstRate®	Liberty[1]	Roundup PowerMAX[3]	Touchdown®[3]
			Ultra Blazer®

[1]Use only on varieties legally designated as "Liberty Link".
[2]Use only on varieties legally designated as "STS®".
[3]Use only on varieties legally designated as "Roundup Ready".

ADDED VELVETLEAF CONTROL IN SOYBEAN TANK MIXES

Tank mix *Resource* Herbicide at 4 fl oz/A to any of the tank mix partners listed in Table 5 to control velvetleaf up to the 6-leaf stage. *Resource* Herbicide, at 2 fl oz/A, may be added to the tank mix partners listed in Table 5 (with the exception of Assure II, Fusilade DX, Fusion, Poast, Poast Plus and Select) to control velvetleaf up to the 4-leaf stage. *Resource* Herbicide may be added to any labeled two- and three-way tank mix of products listed in Table 5 for enhanced velvetleaf control. Refer to tank mix partner's label for adjuvants.

ROUNDUP READY PROGRAM IN SOYBEAN

Resource Herbicide can be added to glyphosate containing products labeled for use in soybeans for increased control of velvetleaf and suppression of morningglories. Refer to Tables 6, 7 and 8 for products and rates.

Table 6. *Resource* Herbicide Tank Mixes in Roundup Ready[1] Systems for Increased Velvetleaf Control[2]

		***Resource* Herbicide Rates and Velvetleaf Size**		
		Leaf Stage		
Product	**Rates**	**2 fl oz/A**	**3 fl oz/A**	**4 fl oz/A**
glyphosate	0.75 to 1.5 lb ai/A	6	7	8
Roundup PowerMAX	20 to 40 fl oz/A	6	7	8
Roundup	1.5 to 3.0 pt/A	6	7	8
Touchdown	1.6 to 2.0 pt/A	6	7	8

[1]Use only on soybeans legally designated as "Roundup Ready".
[2]Use adjuvant identified on glyphosate containing product's label.

Table 7. *Resource* HerbicideTank Mixes in Roundup Ready[1] Systems for Morningglory Suppression[2]

		***Resource* Herbicide Rates and Weed Height**		
		Tall Morningglory	**Entireleaf and Ivyleaf Morningglories**	**Pitted Morningglory**
		Morningglory Size (Inches)		
Product	**Rates**	**2 fl oz to 4 fl oz/A**		
glyphosate	0.75 to 1.5 lb ai/A	up to 6	up to 6	up to 4
Roundup PowerMAX	20 to 40 fl oz/A	up to 6	up to 6	up to 4
Roundup	1.5 to 3.0 pt/A	up to 6	up to 6	up to 4
Touchdown	1.6 to 2.0 pt/A	up to 6	up to 6	up to 4

[1]Use only on soybeans legally designated as "Roundup Ready".
[2]Use adjuvant identified on glyphosate containing product's label.

Table 8. VOLUNTEER COTTON CONTROL WITH *RESOURCE* HERBICIDE

Volunteer Cotton (*Gossypium hirsutum)*	**Cotton Stage**	**Rate fl oz/acre**	**High Rate**
Conventional Varieties Roundup Ready Liberty Link	to 2-leaf	6	8
Apply under favorable soil moisture and humidity, which exists within a few days after rainfall or within 7 days after irrigation. Apply at growth stage indicated on the label, as reduced control can be expected with more mature volunteer cotton. Use the high rate under heavy volunteer cotton pressure and/or when cotton is more mature. Always add a crop oil concentrate at 1 qt/A by ground to the finished spray volume.			

DIRECTIONS FOR USE IN COTTON

USE INFORMATION

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

USE RESTRICTIONS FOR *RESOURCE* HERBICIDE APPLIED TO COTTON

- Do not apply more than 8 fl oz/A of *Resource* Herbicide in a single application.
- Do not make more than 2 applications per acre per year.
- Do not apply more than 14 fl oz/A per year.
- Do not apply *Resource* Herbicide if rain is expected within 1 hour of application.
- Do not graze animals on green forage or use as feed fewer than 28 days after *Resource* Herbicide application.

GROUND APPLICATION
Apply *Resource* Herbicide and *Resource* Herbicide tank mixes with ground equipment using standard commercial sprayers. Thorough coverage is required for optimum burndown or defoliation. Give special attention to preparing and operating the spray equipment to assure proper coverage of cotton leaf surfaces when using *Resource* Herbicide. Avoid the use of air induction nozzles.

Use *Resource* Herbicide on a broadcast basis in a minimum of 10 gallons of water per acre and a spray pressure of 40 to 50 PSI measured at the spray nozzle. 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 cotton density is moderate to heavy.

DIRECTION FOR USE IN COTTON DEFOLIATION

TIME OF APPLICATION
Apply *Resource* Herbicide to cotton when at least 60 percent of the bolls are open.

RATE OF APPLICATION
Up to 8 fl oz per acre of *Resource* Herbicide are required for defoliation. An additional 6 fl oz per acre of *Resource* Herbicide can be applied seven days after the first application, if additional defoliation is required. Good coverage of cotton is essential for maximum defoliation.

USE DIRECTIONS

RATE OF APPLICATION	TIMING OF APPLICATION
Region 1: Alabama, Florida, Georgia, North Carolina, South Carolina, Tennessee (east of Tennessee River) and Virginia.	
4 to 8 fl oz/A An additional 4 to 6 fl oz/A can be used 7 days after the first if additional defoliation is needed.	At least 60% of bolls open
Region 2: Arizona, Arkansas, California, Louisiana, New Mexico, Mississippi, Missouri, Oklahoma, Tennessee (west of Tennessee River) and Texas	
6 to 8 fl oz/A An additional 4 to 6 fl oz/A can be used 7 days after the first if additional defoliation is needed.	At least 60% of bolls open

ADDITIVES
Resource Herbicide must be applied with 1 to 2 pt/A crop oil concentrate or methylated seed oil. The crop oil concentrate or methylated seed oil must contain at least 15% emulsifier. Under ideal defoliation conditions (warm sunny days) a non-ionic surfactant may be substituted for crop oil concentrate. Verify mixing and compatibility qualities by a jar test. A spray grade nitrogen fertilizer solution (28-32% N) at 1 to 2 qt/A or spray grade ammonium sulfate at 2.0 to 2.5 lb/A may be added to enhance defoliation.

MIXING INSTRUCTIONS
Fill the spray tank with 1/2 of the total amount of water to be used, begin agitation, add *Resource* Herbicide, add adjuvant(s), and then fill spray tank to final level.

TANK MIXES
Boll Openers
Resource Herbicide can be tank mixed with boll openers, such as ethephon (Prep®, Finish®), to assist in harvest preparation.

Regrowth Preventers
Resource Herbicide can be tank mixed with regrowth preventers.

Defoliants/Desiccants
Resource Herbicide can be tank mixed with other defoliants and/or desiccants to aid in harvesting. *Resource* Herbicide can be tank mixed with CottonQuik®, Dropp®, Finish, Ginstar®, Harvade® or other registered cotton harvest aid products.

Conduct a jar compatibility test before tank mixing *Resource* Herbicide with any other product until the user is confident in the tank mix partners compatibility with *Resource* Herbicide. When tank mixing *Resource* Herbicide with other products, add the least soluble product first (WP & WDG>EC>solutions).

MULTIPLE APPLICATIONS
A maximum of 2 applications of *Resource* Herbicide can be made provided no more than 14 fl oz are applied during a single growing season and no more than 8 fl oz per acre is applied during a single application.

Apply 4 to 8 fl oz per acre during the first application and **if** a second application is necessary, an additional 4 to 6 fl oz per acre can be applied seven days after the first application.

HARVEST TIMING
Harvest cotton no sooner than 7 days after the last application of *Resource* Herbicide.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage, disposal or cleaning of equipment.

PESTICIDE STORAGE
Store in a cool dry place.
Keep pesticide in original container.
Keep container closed when not in use.
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
Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL
Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling, if available or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

RISKS OF USING THIS PRODUCT, LIMITED WARRANTY AND DISCLAIMER, AND LIMITATION OF LIABILITY

IMPORTANT: Read the entire Label including this section titled Risks of Using this Product, Limited Warranty and Disclaimer, and Limitation of Liability before using this product. If the terms are not acceptable THEN DO NOT USE THE PRODUCT; rather, return the unopened product within 15 days of purchase for a refund of the purchase price.

RISKS OF USING THIS PRODUCT

The buyer and user (referred to collectively herein as "Buyer") of this product should be aware that there are inherent unintended risks associated with the use of this product which are impossible to eliminate. Such risks of crop injury, non-performance, resistance or other unintended consequences are unavoidable and may result because of such factors as weather, soil conditions, disease, moisture conditions, irrigation practices, condition of the crop at the time of application, presence of other materials either applied in the tank mix with this product or prior to application of this product, cultural practices or the manner of use or application, (or a combination of such factors) all of which are factors beyond the control of Valent. If the Buyer chooses not to accept these risks, THEN THIS PRODUCT SHOULD NOT BE APPLIED. By applying this product Buyer acknowledges and accepts these inherent unintended risks AND TO THE FULLEST EXTENT ALLOWED BY LAW, AGREES THAT ALL SUCH RISKS ASSOCIATED WITH THE APPLICATION AND USE ARE ASSUMED BY THE BUYER.

The Directions for Use of this product must be followed carefully. Valent shall not be responsible for losses or damages (including, but not limited to, loss of yield, increased expenses of farming the crop or such incidental, consequential, or special damages that may be claimed) resulting from use of this product in any manner not set forth on the label. To the extent consistent with applicable law, Buyer assumes all risks associated with the use of this product in any manner or under conditions not specifically directed or approved on the label.

LIMITED WARRANTY AND DISCLAIMER

Valent warrants only 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 as described above. To the extent consistent with applicable law, VALENT MAKES NO OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED.** No agent or representative of Valent or Seller is authorized to make or create any other express or implied warranty.

LIMITATION OF LIABILITY

To the fullest extent allowed by law, Valent or Seller is not liable for any incidental, consequential, indirect or special damages resulting from the use or handling of this product. TO THE FULLEST EXTENT ALLOWED BY LAW, THE EXCLUSIVE REMEDY OF THE 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 THE PRODUCT.

PROMPT NOTICE OF CLAIM

To the extent consistent with applicable law allowing such requirements, Valent must be provided notice as soon as Buyer has reason to believe it may have a claim, but in no event later than twenty-one days from date of planting, or twenty-one days from the date of application, whichever is later, so that an immediate inspection of the affected property and growing crops can be made.

To the extent consistent with applicable law, if Buyer does not notify Valent of any claims, in such period, it shall be barred from obtaining any remedy.

NO AMENDMENTS

Valent and Seller offer this product, and Buyer accepts it, subject to the foregoing **Risks of Using This Product, Limited Warranty and Disclaimer,** and **Limitation of Liability,** which may not be modified by any oral or written agreement.

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, to the extent allowed by applicable law.

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

Manufactured for:
Valent U. S. A. LLC
P.O. Box 5075
San Ramon CA 94583

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