81880-6

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

> OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Julie Butcher Gowan PO Box 5569 Yuma, AZ 85366-5569

4-28-09

Subject: EPA Reg. 81880-6 / Yukon Herbicide Label Amendment

Dear Ms. Butcher:

The labeling referred to above as amended is acceptable provided you make the following changes:

1. To page 3, and also to the supplemental label, Application Height change "Application should not" to "Application must not". To Wind, change "Application should be" to "Application must be". To Temperature Inversions change "Applications should not" to "Applications must not". To Sensitive Areas change "Pesticides should only" to "Pesticides must only". To Buffer Zones change "Aerial applications should not" to "Aerial applications must not".

2. Change "Use Rate Guide and Weed Height Recommendations" to "Use Rate Guide and Weed Height Directions" and "Recommended Weed Height" to "Weed Height".

3. To Tank Mixtures Sugar Cane change "recommended rates" and "use rate recommended" and similar phrases to "specified rates".

4. To the Environmental Hazards section add "or rinseate" after "washwaters".

5. To the Warranty section add "to the extent consistent with applicable law" in front of Canyon Group LLC makes no other".

Submit one copy of the revised final printed label for the record. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA. A stamped copy of the label is enclosed for your records. If you have any questions please call Erik Kraft at 703-308-9358 or email at Kraft.Erik@epa.gov.

Sincerely,

Jim Tompkins Product Manager 25 Herbicide Branch Registration Division (7505P)

WATER SOLUBLE GRANULE

JAON HERBICIDE

YUKON is a selective herbicide for the control of listed annual broadleaf weeds and nutsedge in field corn, field corn grown for seed. sugarcane and grain sorghum (milo).

Read the entire label before using this product.

ACTIVE INGREDIENT: * Halosulfuron-methyl	% BY WT. 12.5%
· · · · · · · · · · · · · · · · · · ·	
	TOTAL 100.0%

KEEP OUT OF REACH OF CHILDREN CAUTION

	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.
	Call a poison control center or doctor for treatment advice.
IF SWALLOWED	Call poison control center or doctor immediately for treatment advice.
	Remove visible particles from mouth.
	Have person rinse mouth thoroughly with water, spit out rinse water.
	Have person sip a glass of water if able to swallow.
	Do not induce vomiting unless told to do so by the poison control center or doctor.
	Do not give anything by mouth to an unconscious person.
	HOT LINE NUMBER
	the product container or label with you when calling a poison control center or doctor, or going for treatment. FOR MEDICAL EMERGENCIES INVOLVING THIS PRODUCT, CALL TOLL FREE: 1-888-478-0798.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

CAUSES EYE IRRITATION. HARMFUL IF SWALLOWED. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

· Long-sleeved shirt and long pants

Shoes plus socks.

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 or enclosed cabs 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

ENVIRONMENTAL HAZARDS.

Do not apply directly to water, 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 wash waters.

This product is known to leach through the soil into the ground water under certain conditions as a result of agricultural use. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination. Consult with the local agricultural agencies for information regarding soil permeability and aguifer vulnerability in your area.

NET CONTENTS OUNCESCEPTED with **COMMENTS** In EPA Letter Dated:

41-70-09 Under the Federal Insecticide. Fungicide, and Rodenticide Act as amended, for the pesticide Yuma, Arizona registered under EPA Reg. No.

81830-6

<Canyon Group LLC c/o Gowan Company P.O. Box 5569 85366-5569

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EPA Reg. No. 81880-6 EPA Est. No.

GENERAL INFORMATION

The level of weed control following YUKON Herbicide application is dependent upon application rate, weed species and size at application time, and growing conditions. For best results, applications should be made to actively growing weeds at the heights defined in the "USE RATE GUIDE" sections of this label. Heavy infestations should be treated early before the weeds become too competitive with the crop. When early post emergence treatments are used in corn, sequential applications may be required to control later weed flushes.

Soon after YUKON is applied, growth of susceptible weeds is inhibited, and susceptible weeds are no longer competitive with the crop. Following growth inhibition, the leaves and growing point begin to discolor. Complete control typically occurs within 7-14 days depending on the weed size, species and growing conditions.

DIRECTIONS FOR USE

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

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 (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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

Shoes plus socks

Chemical resistant gloves greater than 14 mils in thickness and composed of materials such as butyl rubber, natural rubber, neoprene rubber or nitrile rubber.

APPLICATION EQUIPMENT AND INSTRUCTIONS

Applications should be made by ground or aerial equipment to healthy, actively growing weeds. For best results, avoid applications when weeds are under drought stress, disease, or insect damage. Rainfall or irrigation occurring within 4 hours after application may also reduce effectiveness.

Ground Applications: Apply YUKON Herbicide uniformly with properly calibrated ground equipment in 10 or more gallons of water per acre. Other water-based spray carriers may be used for directed applications, avoiding contact with crop foliage. Select spray volumes that ensure thorough and uniform weed coverage. Choose nozzles that provide optimum spray distribution and coverage at the appropriate pressure (psi). Use only ground application equipment. Thoroughly clean equipment prior to mixing spray solution. Avoid streaking, skips, overlaps, and spray drift during applications.

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

Avoid disturbing (e.g. cultivation) treated areas for at least 7 days following application.

Aerial Applications: Apply YUKON Herbicide uniformly with property calibrated equipment in 5 to 15 gallons of water per acre. Thoroughly clean equipment prior to mixing spray solution. Avoid streaking, skips, overlaps, and spray drift during applications. This product should only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

Avoid disturbing (e.g. cultivation) treated areas for at least 7 days following application.

Thoroughly clean application equipment immediately after the use of YUKON Herbicide, following the directions under Procedure for Cleaning Spray Equipment.

Spray Drift Management

AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions. The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

- 1. The distance of the outer most nozzles on the boom must not exceed ¾ the length of the wingspan or rotor.
- 2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees. Where states have more stringent regulations, they should be observed.

The importance of spray droplet size:

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential but may not prevent drift if applications are made improperly or under unfavorable environmental conditions (see the following Wind, Temperature and Humidity, and Temperature Inversion sections of this advisory).

Controlling initial droplet size:

- Volume Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher flow rates produce larger droplets.
- Pressure Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- Number of nozzles Use the minimum number of nozzles that provide uniform coverage.
- Nozzle orientation Orienting nozzles so the spray stream is released backwards, parallel to the air stream, will produce larger droplets than other orientations. Significant deflection from the horizontal will reduce droplet size and increase drift potential.
- Nozzle type Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce larger droplets than other nozzle types.

Controlling placement of spray droplets:

- Boom length For some use patterns, reducide a effective boom length to less than % of the wing or rotor length may further reduce drift without reducing swath width.
- Application height Applications should not be greater than 10 feet above the top of the tallest plants unless a greater height is required for aircraft safety. Greater application heights result in greater droplet size reduction through evaporation and greater movement in air currents. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.
- Application speed Slower aircraft speeds within a safe range will produce less air turbulence and fewer small droplets.
- Swath adjustment When applications are made with a cross-wind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase with increasing drift potential (wind speed, droplet size, etc.).

Key environmental factors:

- Wind Drift potential is lowest between wind speeds of 2-10 mph. However, many factors including droplet size and equipment type determine drift
 potential at any given speed. Application should be avoided when wind speeds are below 2 mph due to variable wind direction and high inversion
 potential. NOTE: Local terrain can influence wind patterns. Applicators should be familiar with local wind patterns and how they affect spray
 drift.
- **Temperature and humidity** When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.
- Temperature inversions Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable air currents that are common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke detector. 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.

SENSITIVE CROP PRECAUTIONS

YUKON Herbicide may cause injury to desirable trees and plants, particularly beans, cotton, flowers, fruit trees, grapes, ornamentals, peas, potatoes, soybeans, sunflowers, tobacco, tomatoes and other broadleaf plants when contacting their roots, stems or foliage. These plants are most sensitive to YUKON Herbicide during their reproductive development stage. FOLLOW THE PRECAUTIONS LISTED BELOW WHEN USING THIS PRODUCT.

- Do not treat areas where either downward movement into the soil or surface washing may cause contact of YUKON Herbicide with the roots of sensitive plants such as trees and shrubs.
- Avoid making applications when spray particles may be carried by air currents to areas where sensitive crops and plants are growing, when
 temperature inversions exist, or if the wind is gusty or in excess of 5 10 mph. and moving in the direction of adjacent sensitive crops. Leave an
 adequate buffer zone between area to be treated and sensitive plants.
- Use coarse sprays to avoid potential herbicide drift. Select nozzles that are designed to produce minimal amounts of fine spray particles. Examples of nozzles designed to produce coarse sprays via ground application are large capacity flood nozzles. Keep the spray pressure at or below 20 psi and the spray volume at or above 20 gpa, unless otherwise required by the manufacturer of drift-reducing nozzles. Consult your spray nozzle supplier concerning the choice of drift-reducing nozzles.
- Agriculturally approved drift-reducing additives may be used.
- Do not apply YUKON Herbicide adjacent to sensitive crops when the temperature at the time of application exceeds 85°F as drift is more likely to occur.
- To avoid injury to desirable plants, equipment used to apply YUKON Herbicide should be thoroughly cleaned (See PROCEDURE FOR CLEANING SPRAY EQUIPMENT) before reusing to apply any other chemicals.

Consult your local or state authorities for possible application restrictions and advice concerning these and other special local use situations.

PROCEDURE FOR CLEANING SPRAY EQUIPMENT

The steps listed below are suggested for thorough cleaning of spray equipment following applications of this product which contains dicamba. YUKON Herbicide requires the use of a water/detergent rinse.

- 1) Hose down the inside and outside surfaces of equipment thoroughly while filling the spray tank half full of water. Flush by operating sprayer until the rinse water is purged.
- 2) Fill tank with water while adding 2 lbs. of detergent for every 40 gallons of water. Circulate the detergent solution through the sprayer system for 5 to 10 minutes and spray a small amount of the solution through the boom and nozzles. Let the solution stand for several hours, preferably overnight.
- 3) Flush the detergent solution out through the boom until empty.
- 4) Repeat step 1, and follow with steps 5, 6 and 7.
- 5) Fill tank with water while adding 1 quart of household ammonia for every 25 gallons of water. Circulate the ammonia solution through the sprayer system for 15 to 20 minutes and spray a small amount of the ammonia solution through the boom and nozzles. Let the solution stand for several hours, preferably overnight.
- 6) Flush the solution out through the boom until empty.
- 7) Remove the nozzles and screens and flush the system with two full tanks of water.

MIXING INSTRUCTIONS

Fill the spray tank to about three-fourths of the desired volume. Add the recommended amount of this product as listed in the "WEEDS CONTROLLED" sections. Complete the filling process while maintaining agitation. Remove the hose from the mixing tank immediately after filling to avoid siphoning back into the carrier source. Add non-ionic surfactant, or crop oil concentrate, and other adjuvants as the last ingredients in the tank. Spray solutions should be applied within 24 hours after mixing.

Adjuvants: A nonionic surfactant (NIS) is the only adjuvant required in the spray solution. Use only nonionic surfactants which are approved by EPA for use on food crops and which contain at least 80 percent active ingredient. Use 0.25 to 0.5 percent nonionic surfactant concentration (1 to 2 quarts per 100 gallons of spray solution).

Crop oil concentrate (COC) may be used with YUKON Herbicide instead of nonionic surfactants. Do not use both NIS and COC in the spray mixture. Add COC to the spray mixture at 1 percent vol./vol. (1 gallon per 100 gallons of spray mixture). Use only good quality petroleum- or vegetable-based crop oil concentrates which contain at least 14 percent emulsifiers. Crop oil may cause injury at higher YUKON Herbicide use rates.

Nonionic surfactant OR COC are the only additives necessary for YUKON Herbicide applications. Liquid nitrogen fertilizer solution (e.g., 28-0-0) may be added to the spray solution to improve the control of certain species, particularly if YUKON Herbicide is being tank mixed with a companion herbicide which requires use of a liquid nitrogen additive. However, a nonionic surfactant OR COC will still be necessary. Refer to the companion product label for specific additive requirements. Otherwise, add liquid nitrogen fertilizer at a rate of 2 to 4 quarts per acre. Do not use liquid nitrogen fertilizer solutions or suspensions as the total carrier because excessive creatinjury may occur. A high quality, spray grade ammonitive sulfate (e.g. 21-0-0) may be applied at a rate of 2 to 4 pounds per acre in place of the liquid nitive in fertilizer.

FIELD CORN AND FIELD CORN GROWN FOR SEED

Corn Growth Stage: When used alone, YUKON Herbicide can be applied over-the-top or with drop nozzles from spike stage through 36 inch field corn. To maximize efficacy apply from spike stage through 20 inch field corn. Drop nozzles are recommended for corn greater than 20 inches to ensure proper coverage of weeds.

YUKON Herbicide may be applied up to 2 applications per growing season with the total amount applied per acre not to exceed 8 ounces of product by weight. Allow at least 2 weeks between applications.

Following application to foliage, corn may be grazed or harvested for feed after the crop reaches the ensilage (milk) stage, at least 30 days after foliar application.

WEEDS CONTROLLED - YUKON HERBICIDE CORN USE RATE GUIDE

Use Rate – 4 to 8 ounces of product by weight per acre

	Size Range	
Weed Species	Height (inches)	
Distance 1	· · ·	
Bindweed 1	1 to 6	
Burcucumber ¹	4 to 12	
Cocklebur, common	1 to 14	
Dogbane, hemp ¹	1 to 6	
Fleabane, Philadelphia	1 to 3	
Horsenettle	1 to 8	
Kochia ²	1 to 6	
Jimsonweed	1 to 4	
Lambsquarters, common	1 to 6	,
Mallow, Venice	1 to 12 *	
Milkweed, common	1 to 6	
Milkweed, honeyvine	1 to 6 *	• .
Morningglory, ivyleaf	1 to 6	
Morningglory, tall	1 to 6	
Mustard	1 to 6 *	
 Nightshade, black 	1 to 6	
Nutsedge, yellow	1 to 12 *	
Nutsedge, purple	1 to 12 *	
Passionflower	1 to 3	
Pigweed, redroot	1 to 12	
Pokeweed	1 to 18	
Ragweed, common ²	1 to 12	
Ragweed, giant ²	1 to 6	
Radish, wild	1 to 6 *	
Smartweed, Pennsylvania	1 to 3	
Sunflower, common	1 to 15	
Thistle, Canada ¹	1 to 6	
Velvetleaf	1 to 12	
Waterhemp ²	1 to 6	

¹Suppression

² Biotypes of these weeds are known to exist that are resistant to ALS-inhibitor herbicides. Reduced control with YUKON Herbicide may be seen from these populations. The use of higher rates of YUKON Herbicide or tank mixing with additional modes of herbicide action may be necessary to achieve complete control.

* Use 6 to 8 ounces for best results.

Use the higher rates for heavy weed infestations or weeds close to the maximum height for control.

Do not apply when soybeans are grown nearby if corn is more than 24" tall, or if soybeans are more than 10" tall, or if soybeans have begun to bloom.

GRAIN SORGHUM (MILO)

Grain Sorghum Growth Stage: YUKON Herbicide alone can be applied from the 2-leaf through 15-inch tall sorghum. Use drop nozzles if sorghum is taller than 8 inches. Crop injury will be minimized if the spray solution does not contact leaves or the whorl. Application made when the sorghum is in the 3 to 5 leaf stage and weeds are small will result in best performance. Temporary stature reduction may occur to the crop following application of YUKON Herbicide if the grain sorghum is under stress. This effect will be most evident 7-10 days after application. The crop will quickly recover under normal growing conditions.

Only apply YUKON Herbicide in a single application with the total application rate not to exceed 6 ounces of product by weight per acre per use season. Do not graze or feed treated sorghum forage or silage prior to mature grain stage. Do not graze or feed treated sorghum forage or silage for 30 days after a treatment of Yukon Herbicide. Do not apply to sorghum grown for seed production.

MEEDS CONTROLLED - YUKON HERBICIDE SORGHUM USE RATE GUIDE Use rate - 4 to 6 ounces of product by weight per acre

		Size Range			•
	Weed Species	Height (inches)			
Bindwee	d 1	1 to 6			
Burcucu	mber ¹	4 to 12			
	ur, common	1 to 12/			
Dogban	e, hemp ¹	1 to 6			
Fleaban	e, Philadelphia	1 to 3	•		
Horsene	ttie	1 to 8			
Kochia ²		1 to 6	,		
Jimsonw	reed	1 to 4			
Lambsq	uarters, common	1 to 6			
Mallow,	Venice	1 to 3			
	d, common	1 to 6			
Milkwee	d, honeyvine ¹	1 to 3*			
Morning	glory, ivyleaf	1 to 6			
Morning	glory, tall	- 1 to 6			
Nightsha	ide, black	1 to 6			
Nutsedg	e, yellow	1 to 12*	• •		
Nutsedg	e, purple	1 to 12*			
Passion		1 to 3			
Pigweed	, redroot	1 to 12			
Pokewe	ed	1 to 18		•	
Ragwee	d, common ²	1 to 12	,		
	d, giant ²	1 to 6		•	•
Smartwe	ed, Pennsylvania	1 to 3			
Sunflow	er, common	1 to 12			
Thistle, (Canada ¹	1 to 6			
Velvetle	af	1 to 12			
Waterhe	mp ²	1 to 6			·

Suppression

² Biotypes of these weeds are known to exist that are resistant to ALS-inhibitor herbicides. Reduced control with YUKON Herbicide may be seen from these populations. The use of higher rates of YUKON Herbicide or tank mixing with additional modes of herbicide action may be necessary to achieve complete control.

* Use 6 ounces for best results.

Use the higher rates for heavy weed infestations or weeds close to the maximum height for control.

TANK MIXTURES

Before mixing in the spray tank, it is recommended that compatibility be tested by mixing all components in a small container in proportionate quantities as listed below. For tank mixtures, add individual formulations to the spray tank in the following sequence: water dispersible granules, dry flowables, emulsifiable concentrates, drift control additive, water soluble liquids followed by nonionic surfactant.

Tank mixtures should not be applied if the crop is under severe stress due to drought, water-saturated soils, poor fertility (especially low nitrogen levels), hail, frost, insects or when the maximum daytime temperature is above 92°F. Tank mix applications under these conditions may cause temporary crop injury.

Ensure that spray equipment is set up to avoid applying an excessive rate directly over the rows and into the whorl of the cornstalk. To insure good spray coverage of weeds and to reduce the risk of spraying directly into the whorl, tank-mix applications made after corn is 24 inches tall should be directed or semi-directed using drop nozzles.

YUKON Herbicide Tank-Mixture Options in Corn

Tank Mix Partners	Rate per Acre	Additives	Application Method	Comments
Atrazine 4L	1.5 to 3 pt	000	Broadcast to corn up to 12" tall.	 Control is best when weeds are small. Effective for burndown of grass weed escapes. Antagonism may occur on larger broadleaf weeds.
Atrazine 90DF	0.83 – 1.67 lb	COC	Broadcast to corn up to 12" tall.	 Control is best when weeds are small. Effective for burndown of grass weed escapes. Antagonism may occur on larger broadleaf weeds.
Accen ^{te} Herbicide	0.67 oz	COC or NIS	 Broadcast or apply with drop nozzles to corn up to 24" tall. For corn 24" to 36" tall, apply with drop nozzles only. 	 Ammonium nitrogen fertilizer (e.g. 28%) is also recommended as an additive. Avoid spraying directly into whorls of larger cornstalks. Refer to Accent label for soil insecticide interaction information.
Beacon [®] Herbicide	0.76 oz 1/2 packet	COC or NIS	 Broadcast or apply with drop nozzles to corn up to 20" tall. For corn 20" to pretassel, apply with drop nozzles only. 	 Ammonium nitrogen fertilizer (e.g. 28%) is also recommended as an additive. Avoid spraying directly into whorls of larger corn. Refer to Beacon label for soil insecticide interaction restrictions. Consult your dealer, seed supplier, or Syngenta representative for a list of susceptible hybrids.
Callisto [®] 4L Herbicide	3 oz	COC	 Broadcast or apply with drop nozzles to field or seed corn up to 30" tall or 8 leaf collars. 	 Ammonium nitrogen fertilizer (e.g. 28% is also recommended as an additive. Refer to Callisto[®] label for soil insecticide interaction restrictions.

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Tank Mix Partners	Rate per Acre	Additi	Application Method	Comments
Glyphosate (various formulations)	0.56 – 1.125 Ib/acid/a.i.	NIS	 Broadcast or apply with drop nozzles to field corn up to 30-36" tall corn dependent on formulation. Consult individual product label. Drop nozzles are recommended for applications made to GT corn between 	 The addition of spray grade ammonium sulfate (AMS) a 8.5-17 lb/100 gal spray mix is also required as an additive For use on corn hybrids tolerant to glyphosate herbicide ONLY.
Impact [®] 2.8L	0.5 - 0.75 oz	NIS or COC	24" tall.	NIS is recommended.
Herbicide	0.0 - 0./5 OZ	NIS OF COC	 Broadcast or apply with drop nozzles to field or seed corn up to 36" tall. 	 NIS is recommended. Ammonium nitrogen fertilizer (e.g. 28%) is also recommended as an additive.
Liberty [®] 1.67L Herbicide	28 – 34 oz	AMS	 Broadcast or apply with drop nozzles to field corn up to 24" tall. Applications can further be made with drop nozzles only up to 36" tall corn. 	 AMS (17 lb/100 gallons of spray mix. Do not add NIS or COC. For use on corn hybrids tolerant to Liberty[®] Herbicide ONLY.
Option [®] 35WDG Corn Herbicide	1.5 – 1.75 oz	COC	 Broadcast or apply with drop nozzles to field corn between V1 and V6 stage of growth. Applications can further be made with drop nozzles only from 16-36" tall corn. 	 Ammonium nitrogen fertilizer (e.g. 28%) or spray grade AMS (17 lb/100 gal) is also recommended as an additive. Avoid spraying directly into the whorls of larger cornstalks. Refer to Option[®] label for soil insecticide interaction restrictions. Do not apply Option to seed corn.
Steadfast [®] 75 DF Herbicide	0.75 oz	COC or NIS	Broadcast or apply	 COC is recommended. Ammonium nitrogen fertilizer (e.g. 28%) or spray grade AMS (17 lb/100 gal) is also recommended as an additive. Avoid spraying directly into the whorls of larger cornstalks. Refer to the Steadfast[®] label for tank mix and soil insecticide interaction restrictions. Do not apply Steadfast to seed corn.

NIS = Nonionic surfactant. COC = Crop oil concentrate.

Refer to the specific product labels and observe all precautions, mixing and application instructions, and follow-crop intervals for all products used in tank mixtures. Be sure to follow the specifications listed on the most restrictive label when planning and making applications.

TANK MIXTURES CORN AND GRAIN SORGHUM

YUKON HERBICIDE plus ATRAZINE: YUKON Herbicide may be applied in combination with atrazine for post emergence control of labeled broadleaf weeds. The addition of atrazine will also aid in the burndown and control of many grass weeds (1.5 inches or less) which have escaped preemergence herbicide treatments. Applications should be made when broadleaf weeds are small (3 inches or less).

Mixtures with atrazine may result in reduced control (antagonism) of larger broadleaf weeds. Use the labeled rate for YUKON Herbicide plus Atrazine 4L at 1 1/2 to 3 pints per acre (0.75 to 1 1/2 pounds active ingredient per acre) or Atrazine 90DF at 0.83 to 1.67 lbs per acre. The addition of crop oil concentrate (COC) is recommended for this mixture.

Refer to Atrazine product labels for use instructions, additive requirements, weeds controlled, and application restrictions.

TANK MIXTURES

CORN ONLY

YUKON HERBICIDE plus ACCENT plus NONIONIC SURFACTANT: A tank mixture of YUKON Herbicide plus Accent may be used for the post emergence control of annual broadleaf weeds and annual grasses in corn only. YUKON Herbicide plus Accent may be applied over-the-top or with drop nozzles to field corn up to 24 inches tall (free standing). For corn 24 to 36 inches tall, refer to the Accent label for application restrictions.

YUKON HERBICIDE plus BEACON plus NONIONIC SURFACTANT: A tank mixture of YUKON Herbicide plus Beacon may be used for the post emergence control of annual broadleaf weeds and annual grasses in corn only. YUKON Herbicide plus Beacon may be applied over-the-top or directed to field corn when corn height is between 4 and 20 inches tall. Drop nozzles are required with the Beacon mixture when corn is between 20 inches and 36 inches tall.

YUKON HERBICIDE plus CALLISTO plus CROP OIL CONCENTRATE: YUKON Herbicide plus Callisto may be used to control annual broadleaf weeds in corn only. YUKON Herbicide plus Callisto can be applied over-the-top or with drop nozzles to field or seed corn up to 30 inches tall (or 8 leaf collars, whichever is more restrictive).

YUKON HERBICIDE plus GLYPHOSATE plus NONIONIC SURFACTANT: A tank mixture of YUKON Herbicide plus glyphosate may be used for Glyphosate Tolerant (GT) corn hybrids ONLY for control of grasses and broadleaves. YUKON Herbicide plus glyphosate may be applied over-the-top or with drop nozzles to field corn up to 30 inches tall (or 8 leaf collars, whichever is more restrictive); drop nozzles are recommended for applications made to

GT corn between 24-30 inches). Note: Certain glyphesate formulations allow applications over-the-top or with drops to GT corn up to 36 inches tall. I using these formulations, drop nozzles are still reconded for applications to GT corn from 24-36 inches

YUKON HERBICIDE plus IMPACT plus NONIONIC SURFACTANT or CROP OIL CONCENTRATE: A tank mixture of YUKON Herbicide plus Impact® may be used for control of annual broadleaf weeds and annual grasses in corn only. YUKON Herbicide plus Impact can be applied over-the-top or with drop nozzles to field or seed corn up to 36 inches tall. Drop nozzles are recommended if the crop canopy prevents adequate coverage. Refer to the Impact® label for use instructions, additive requirements, weeds controlled, insecticide restrictions and applicable precautions.

YUKON HERBICIDE plus LIBERTY: A tank mixture of YUKON Herbicide plus Liberty may be used for Liberty Tolerant corn hybrids ONLY for control of broadleaf weeds and grasses. YUKON Herbicide plus Liberty can be applied over-the-top or with drop nozzles to field corn up to 24 inches tall (or 7 leaf collars, whichever is more restrictive); applications can further be made with drop nozzles only up to 36 inch tall corn.

YUKON HERBICIDE plus OPTION plus CROP OIL CONCENTRATE: YUKON Herbicide plus Option may be used to control annual broadleaf weeds and annual grasses in corn only. YUKON Herbicide plus Option® can be applied over-the-top or with drop nozzles to field corn between V1 and V6 stage of growth; applications can further be made with drop nozzles only from 16-36 inch tall corn. DO NOT apply Option to seed corn.

YUKON HERBICIDE plus STEADFAST plus NONIONIC SURFACTANT or CROP OIL CONCENTRATE: A tank mixture of YUKON Herbicide plus Steadfast may be used for control of annual broadleaf weeds and annual grasses in corn only. YUKON Herbicide plus Steadfast can be applied over-the-top or with drop nozzles to field corn up to 20 inches tall (or 6 collars, whichever is more restrictive) Drop nozzles are recommended if the crop canopy prevents adequate coverage. DO NOT apply Steadfast® to seed corn.

Refer to the specific product labels and observe all precautions, mixing and application instructions, and follow-crop intervals for all products used in tank mixtures.

USE RATE GUIDE AND WEED HEIGHT RECOMMENDATIONS FOR CONTROL OF SELECT GRASSES WITH YUKON TANK MIXES

(See Weeds Controlled Section for YUKON Herbicide for broadleaf weed heights and rates)

YUKON Herbicide Use Rate - 4 to 8 ounces of product by weight per acre

Accent Use Rate - 0.67 ounce by weight per acre

Beacon Use Rate - 0.76 ounce product by weight per acre

Option Use Rate - 1.5 to 1.75 ounces of product by weight per acre

Steadfast Use Rate - 0.75 ounces of product by weight per acre

Follow individual labels for use specifics and precautions

RECOMMENDED WEED HEIGHT (INCHES) AT TIME OF APPLICATION

	YUKON +	YUKON +	YUKON +	YUKON +
	Accent	Beacon	Option	Steadfast
Barnyardgrass	up to 4		up to 4	up to 4
Bromegrass, downy		*******	up to 8	
smooth			up to 8	
Cupgrass, woolly	up to 4		up to 2	up to 3
Fescue, tall		*****	up to 8	
Foxtails, giant	up to 4	1 to 2	up to 6	up to 4
yellow	up to 4	1 to 2	up to 3	up to 4
green	up to 4	1 to 2	up to 3	up to 4
bristly	up to 4	1 to 2	up to 3	up to 4
Goosegrass			up to 4	up to 2
Johnsongrass, rhizome	up to 18	8 to 16	up to 16	8 to 12
seedling	up to 12	4 to 12	up to 16	8 to 12
Willet, wild proso	up to 4		up to 3	up to 4
Dats, wild	up to 4		up to 6	up to 2
Drchardgrass			up to 8	·
Panicum, fall	up to 4	Less than 2	up to 3	up to 4
Panicum, Texas	up to 3		up to 2	up to 4
Quackgrass	up to 10	4 to 8	up to 10	up to 8
Ryegrass, Italian	up to 6	1 to 4	up to 8	up to 4
Sandbur, field	up to 3	1 to 4	up to 2	up to 2
Shattercane	up to 12	4 to 12	up to 12	up to 6
Signalgrass, broadleaf	1 to 2		up to 2	up to 2
Nirestem muhly	up to 8		up to 10	up to 4
Volunteer cereals	up to 6		up to 4	up to 2

YUKON plus ACCENT, OPTION or STEADFAST plus SOIL RESIDUALS

Acetochlor, metolachlor and dimethenamid may be tank mixed with Yukon and Accent, Option or Steadfast for early post emergence and residual control of foxtails and other grass weeds in field corn (including seed corn). **Refer to individual product labels for recommended rates.** These tank mixtures will control emerged foxtails and other grasses as well as provide residual control or reduced competition of annual grasses and certain broadleaf weeds listed in the "WEEDS CONTROLLED" section of the specific herbicide labels.

Apply these tank-mixtures to small emerged annual grasses (target heights listed in the USE RATE GUIDE AND WEED HEIGHT RECOMMENDATIONS FOR CONTROL OF SELECT GRASSES WITH TUKON TANK MIXES section above). Include 28 percent nitrogen fertilizer at a rate of 4 gallons per 100 gallons of spray solution plus NIS at 1 quart per 100 gallons of spray solution in 15 to 30 gallons of water per acre. Follow all label directions and restrictions on maximum corn height for post applications.

SUGARCANE

q

YUKON Herbicide may be applied up to 2 applicatio ir growing season with the total amount applied pére not to exceed 8 ounces of product by weight. When used alone, this product may be applied prior to planting, prior to emergence or after the emergence of the sugarcane, and until row closure. Mechanical cultivation may be required to control weed species not on the label. If so, a sequential treatment may be required to control weeds in areas of disturbed soil.

WEEDS CONTROLLED - YUKON HERBICIDE SUGARCANE USE RATE GUIDE

Use Rate - 4 to 8 ounces of	product by weight per acre
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Bindweed 11 to 6Burcucumber 14 to 12Cocklebur, common1 to 14Dogbane, hemp 11 to 6Fleabne, Philadelphia1 to 3Horsenettle1 to 8Kochia21 to 4Lambsquarters, common1 to 6Mallow, Venice1 to 1 2 *Milkweed, common1 to 6Milkweed, noneyvine1 to 6Milkweed, honeyvine1 to 6Mustard1 to 6Mustard1 to 6Nutsedge, puple1 to 12 *Nutsedge, puple1 to 12 *Passonflower1 to 12Pakeweed1 to 12Pakeweed1 to 12Ragweed, redroot1 to 12Pokeweed1 to 12Ragweed, giant21 to 6Radish, wild1 to 6Sunflower, common1 to 12Pokeweed1 to 13Sunflower, common1 to 6Veltelaf1 to 12	Weed Species	Size Range Height (inches)		
Burcucumber 14 to 12Cocklebur, common1 to 14Dogbane, hemp 11 to 6Fleabane, Philadelphia1 to 3Horsenettle1 to 8Kochia²1 to 6Jimsonweed1 to 4Lambsquarters, common1 to 6Mallow, Venice1 to 12 *Milkweed, common1 to 6Milkweed, honeyvine1 to 6Morningglory, tall1 to 6Mustard1 to 6*Nutsedge, yellow1 to 12 *Nutsedge, yellow1 to 12 *Nutsedge, purple1 to 12Passionflower1 to 12Pokeweed1 to 12Ragweed, common²1 to 6Ragweed, common1 to 6Smartweed, pennylvania1 to 6Ragweed, giant²1 to 12Ragweed, paint²1 to 6Radish, wild1 to 6Sunflower, common1 to 15Thistle, Canada 11 to 6Velvetleaf1 to 15Thistle, Canada 11 to 6	 · · · · · · · · · · · · · · · · · · ·			
Cocklebur, common1 to 14Dogbane, hemp 11 to 6Fleabane, Philadelphia1 to 3Horsenettle1 to 8Kochia²1 to 6Jimsonweed1 to 6Lambsquarters, common1 to 6Mallow, Venice1 to 12 *Milkweed, common1 to 6Milkweed, honeyvine1 to 6Morningglory, ivyleaf1 to 6Mustard1 to 6 *Nutsedge, puple1 to 12 *Nutsedge, puple1 to 12 *Passionflower1 to 12 *Nutsedge, puple1 to 12 *Passionflower1 to 6 *Ragweed, redroot1 to 12 *Pokeweed1 to 12 *Ragweed, common²1 to 12Ragweed, giant²1 to 6Radish, wild1 to 6Sunflower, common1 to 6Sunflower, common1 to 15Thistle, Canada ¹1 to 6Velvetleaf1 to 15	Bindweed ¹	1 to 6		
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Fleabane, Philadeiphia1 to 3Horsenettle1 to 6Jimsonweed1 to 6Jimsonweed1 to 4Lambsquarters, common1 to 6Mallow, Venice1 to 12 *Milkweed, common1 to 6Milkweed, honeyvine1 to 6 *Morningglory, ivyleaf1 to 6Mustard1 to 6 *Mustardge, pullow1 to 6 *Nutsedge, pullow1 to 12 *Nutsedge, pullow1 to 12 *Passionflower1 to 12 *Pokeweed1 to 12Pokeweed1 to 12Ragweed, giant ² 1 to 6Radish, wild1 to 6 *Smartweed, Pennsylvania1 to 6 *Sunflower, common1 to 15Thistle, Canada 11 to 6Velvetleaf1 to 12				
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Smartweed, Pennsylvania1 to 3Sunflower, common1 to 15Thistle, Canada 11 to 6Velvetleaf1 to 12		1 to 6	· · ·	
Sunflower, common1 to 15Thistle, Canada 11 to 6Velvetleaf1 to 12			·	
Thistle, Canada 1 1 to 6 Velvetleaf 1 to 12				
Velvetleaf 1 to 12				
Waterhemp ² 1 to 6				
Watehiettp	Waterhemp ²	1 to 6		

¹ Suppression

² Biotypes of these weeds are known to exist that are resistant to ALS-inhibitor herbicides. Reduced control with YUKON Herbicide may be seen from these populations. The use of higher rates of YUKON Herbicide or tank mixing with additional modes of herbicide action may be necessary to achieve complete control.

* Use 6 to 8 ounces for best results.

Use the higher rates for heavy weed infestations or weeds close to the maximum height for control.

TANK MIXTURES

YUKON Herbicide may be tank mixed with Asulam (Asulox*), Atrazine, Ametryn (Evik*) or 2,4-D for application in sugarcane.

YUKON plus GLYPHOSATE AGRICULTURAL HERBICIDES plus NONIONIC SURFACTANT: YUKON Herbicide may be applied at 4 to 8 ounces by weight per acre in combination with recommended rates of glyphosate agricultural herbicides for pre-plant burn down of emerged annual grasses, broadleaf weeds and nutsedge in sugarcane.

YUKON plus ASULAM plus NONIONIC SURFACTANT or CROP OIL CONCENTRATE: YUKON Herbicide may be applied in tank mixtures with asulam for the control of labeled grasses. A YUKON Herbicide tank mixture with asulam may be applied to sugarcane before crop emergence or post-emergence until 90 days before harvest. Up to 2 applications per year may be made in accordance with label recommendations. Use rate recommended is 4 –8 ounces YUKON Herbicide plus 6 to 8 pints asulam (only 2 treatments of asulam per year may be applied) per acre.

YUKON plus ATRAZINE plus NONIONIC SURFACTANT or CROP OIL CONCENTRATE: YUKON Herbicide may be applied in combination with atrazine for post-emergence control of labeled broadleaf weeds in sugarcane. The addition of atrazine will also aid in the burn down and control of many grass weeds (1.5 inches or less) which have escaped pre-emergence herbicide treatments. Applications should be made when broadleaf weeds are small (3 inches or less). Mixtures with atrazine may result in reduced control (antagonism) of larger broadleaf weeds. Use rate recommended is 4 to 8 ounces YUKON Herbicide plus 4 to 8 pints atrazine per acre. Follow the specific recommendations on an atrazine label for number and timing of applications and for maximum number of applications per year.

YUKON plus AMETRYN plus NONIONIC SURFACTANT: YUKON Herbicide may be applied in tank mixtures with ametryn for the control of additional broadleaf weeds and grasses. A YUKON herbicide tank mixture with ametryn may be applied to sugarcane before crop emergence or post-emergence until row closure. Use rate recommended is 4 to 8 ounces Yukon plus 1/2 to 1 1/2 pounds of ametryn per acre. Efficacy may be reduced if temperatures exceed 85 degrees during application. Follow the specific recommendations on an ametryn label for number and timing of applications and for maximum number of applications per year.

YUKON plus 2,4-D AMINE plus NONIONIC SURFACTANT: YUKON Herbicide may be applied in tank mixtures with 2,4-D amine for the control of additional broadleaf weeds. A YUKON tank mixture with 2,4-D may be applied to sugarcane before crop emergence or post-emergence until 6 weeks before harvest. Use rate recommended is 4 to 8 ounces of Yukon plus 1 to 4 pints per acre (1/2 to 2 pounds active ingredient per acre) 2,4-D. Up to 4 treatments per year of 2,4-D may be applied.

Refer to the companion product labels for use rates, restrictions and other important application information. See the companion labels for additional weeds controlled by these tank mixtures. Always follow the directions for use provided on the companion product label, including any state restrictions.

TURFGRASS SOD

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Apply YUKON Herbicide as a post emergence control... the rate of 4 – 8 ounces to weeds commonly found in .urf. Use the lower rate in light infestations and the higher rate in heavy infestation. Do not exceed 2 applications per growing season with the total amount applied per acre not to exceed 8 ounces of product by weight. For optimum results, do not mow turf for 2 days before or after application. Avoid application of Yukon Herbicide when turfgrass is under stress since turf injury may result.

ROTATIONAL CROP INFORMATION

Labeled crops may be planted at specified time intervals following application of approved rates of YUKON Herbicide. Use the time intervals listed below to determine the required time interval before planting.

TIME INTERVAL BEFORE PLANTING (Months after treatment with YUKON)

Сгор	Months	Exceptions
IR/IMR Field corn	0	
Sugarcane	0	
IT Field corn	1 ·	······································
Normal Field corn	1	·
Barley (winter)	2	· · · · · · · · · · · · · · · · · · ·
Forage Grasses	2	
Oats	2	
Proso Millet	2	
Rye (winter)	2	
Seed corn	2	
Sorghums	2	· · · · · · · · · · · · · · · · · · ·
Spring cereal crops	2	
Wheat (winter)	2	
Rice	2	· ·
Popcorn, Sweet corn	3	
Cotton	4	·
Peanuts	6	
Tomato (transplant)	8	2 months in the northeast and southeast and 3 months in TX
Alfalfa	9	· · · · ·
Clovers	9	
Dry Beans	9	2 months in the northeast, southeast and TX
Field Peas	9	,
Peas	9	
Potatoes	9	
Cucumbers, Pumpkins, Squash	9	2 months in the southeast
Snap Beans	. 9	2 months in the northeast and southeast and 3 months in TX
Soybeans	9	· · · · · · · · · · · · · · · · · · ·
Melons	9	
Peppers	10	4 months for FL transplants and 3 months in TX
Eggplant	12	4 months for FL transplants
Radish	12	3 months in the muck soil areas of FL only
Cabbage	15	3 months in the muck soil areas of FL only
Canola	15	
Carrot	15	
Mint	15	
Broccoli, Cauliflower, Collards	18	3 months in the muck soil areas of FL only
Leeks, Onions	18	
Lettuce crops	18	3 months in the muck soil areas of FL only
Sunflowers	18	
Sugarbeet (Michigan only)	21	·
Sugarbeet and Red Beet	24	· · · · · · · · · · · · · · · · · · ·
Spinach	24	
Strawberries	36	6 months for annual FL transplants
Sugarbeet	36	
(ND, MN, Red River Valley)*	•	

(ND, MN, Red River Valley)*

*Also includes other regions where rainfall is sparse or irrigation is required.

Refer to individual product labels to determine rotational crop restrictions when tank mixtures are used.

Southeast: LA, MS, AL, FL, GA, NC, SC, TN, Puerto Rico

Northeast: PA, DE, MA, MD, NY, ME, NJ, CT, RI, VA, NH, VT, WV MI, WI, MN, IA, IL, IN, OH, MO, KY, ND, SD, NE

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

PESTICIDE STORAGE: Store under cool, dry conditions (below 120° F). Do not store under moist conditions.

Keep container TIGHTLY sealed to prevent moisture from damaging any unused product.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

DISPOSAL AUTHORITIES: If none of the foregoing procedures is permitted by state and local authorities, then contact your State Pesticide or Environmental Control Agency, or your local Hazardous Waste Disposal office, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

FOR 24-HOUR EMERGENCY ASSISTANCE (SPILL, LEAK OR FIRE), CALL CHEMTREC® (800) 424-9300.

For other product information, contact Gowan Company or see Material Safety Data Sheet.

NOTICE OF CONDITIONS OF SALE AND WARRANTY AND LIABILTY LIMITATIONS

Important: Read the entire Directions for Use and Notice of Conditions of Sale and Warranty and Liability Limitations before using this product. If terms are not acceptable return the unopened container for a full refund.

Our directions for use of this product are based on tests believed to be reliable. However, it is impossible to eliminate all risk associated with the use of this product. Crop injury, inadequate performance, or other unintended consequences may result due to soil or weather conditions, off target movement, presence of other materials, method of use or application, and other factors, all of which are beyond the control of Canyon Group LLC. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer and User.

Canyon Group LLC. warrants that this product conforms to the specifications on the label when used in strict conformance with Direction for Use, subject to the above stated risk limitations. CANYON GROUP LLC. MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

TO THE EXTENT PERMITTED BY LAW, CANYON GROUP'S EXCLUSIVE LIABILITY FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, OR ANY OTHER LEGAL THEORY IS STRICTLY LIMITED TO THE PURCHASE PRICE PAID OR REPLACEMENT OF PRODUCT, AT CANYON GROUP'S SOLE DISCRETION.

Accent[®] and Steadfast[®] are registered trademarks of E. I. DuPont de Nemours & Co., Inc. Option[®], Asulox[®], and Liberty[®] are registered trademarks of Bayer CropScience. Beacon[®], Evik[®] and Callisto[®] are registered trademarks of Syngenta Group Company. Impact[®] is a registered trademark of Amvac Chemical Corporation. Yukon[®] is a registered trademark of Nissan Chemical Industries, LTD. Chemtrec[®] is a registered trademark of American Chemistry Council, Inc.

Formulated in the United States contains the Active Ingredient Halosulfuron-methyl which is made in Japan.

EPA Text Pending: Yukon Herbicide (to EPA 3-25-09)

READ THE ENTIRE LABEL FOR YUKON HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING

YUKON HERBICIDE

WATER SOLUBLE GRANULE

YUKON is a selective herbicide for the control of listed annual broadleaf weeds and nutsedge in field corn, field corn grown for seed, sugarcane and grain sorghum (milo).

Read the entire label before using this product.

ACTIVE INGREDIENT: * Halosulfuron-methyl	%	BY WT. 12,5%
Sodium salt of dicamba		
·	TOTAL	100.0%

KEEP OUT OF REACH OF CHILDREN CAUTION

AERIAL APPLICATIONS IN CALIFORNIA ONLY

"Label" as used in this supplemental labeling refers to the table booklet for YUKON Herbicide and this supplemental DIRECTIONS FOR USE

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

- This labeling must be in the possession of the user at the time of pesticide application.
- It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.
- All applicable directions, restrictions and precautions on the EPA registered label are to be followed.

APPLICATION EQUIPMENT AND INSTRUCTIONS

Applications should be made by ground or aerial equipment to healthy, actively growing weeds. For best results, avoid applications when weeds are under drought stress, disease or insect damage. Rainfall or irrigation occurring within 4 hours after applications may also reduce effectiveness.

Aerial Applications: Apply YUKON Herbicide uniformly with property calibrated equipment in 5 to 15 gallons of water per acre. Thoroughly clean equipment prior to mixing spray solution. Avoid streaking, skips, overlaps and spray drift during applications. This product should only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

Avoid disturbing (e.g. cultivation) treated areas for at least 7 days following application.

Thoroughly clean application equipment immediately after the use of YUKON Herbicide, following the directions under Procedure for Cleaning Spray Equipment.

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SUP EMENTAL LABELING

EPA Reg. No. 81880-6 EPA Est. No.

Spray Drift Management

AVOIDING SPRAY DRIFT AT THE APPLICATION on It is THE RESPONSIBILITY OF THE APPLICATOR AND THE GROWER. The interaction of many equipment- and weather-related factors determine the potential for spray drift. The applicators and the grower are responsible for considering all these factors when making decisions. The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

- 1. Each operating nozzle shall produce a droplet size not less than 500 microns volume median diameter with no more than 10 percent of the diameter by volume less than 200 microns.
- 2. The distance of the outer most nozzles on the boom must not exceed 2/3 the length of the wingspan or rotor.
- 3. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees. Where states have more stringent regulations, they should be observed.
- 4. Application should not be made at a height greater than 10 feet above the top of the target plants unless greater height is required for aircraft safety.

The importance of spray droplet size:

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential but may no prevent drift if applications are made improperly or under unfavorable environmental conditions (see the following "Wind", "Temperature and Humidity" and "Temperature Inversion" sections of this advisory.)

Controlling initial droplet size:

- Volume Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher flow rates produce larger droplets.
- Pressure Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- Number of nozzles Use the minimum number of nozzles that provide uniform coverage.
- Nozzle orientation Orienting nozzles so the spray stream is released backwards, parallel to the air stream, will produce larger droplets than other orientations. Significant deflection from the horizontal will reduce droplet size and increase drift potential.
- Nozzles type Use a nozzles type that is designed for the intended application. With most nozzles types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce larger droplets than other nozzle types.

Controlling placement of spray droplets:

- Boom length For some use patterns, reducing the effective boom length to less than 2/3 of the wingspan or rotor length may further reduce drift without reducing swath width.
- Application height Applications should not be greater than 10 feet above the top of the tallest plants unless a greater height is required for aircraft safety. Greater application heights result in greater droplet size reduction through evaporation and greater movement in air currents. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.
- Application speed Slower aircraft speeds within a safe range will produce less air turbulence and fewer droplets.
- Swath adjustment When applications are made with a cross-wind, the swath will be displaced downward. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase with increasing the drift potential (wind, speed, droplet size, etc.)

Key environmental factors:

- Wind Drift potential is lowest between wind speeds of 3 to 10 mph. However, many factors including droplet size and equipment type determine drift potential at any given speed. Application should be avoided when wind speeds are below 3 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Applicators should be familiar with local wind patterns and how they affect drift.
- Temperature and humidity When making applications in low relative humidity set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.
- Temperature inversions Application should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable air currents that are common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke detector. 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.

Sensitive Areas: Pesticides should only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from sensitive areas).

Sensitive Crops: Cotton

Prünes

Buffer zones:

Aerial applications should not be made closer than four miles from sensitive crops.

Read the "LIMIT OF WARRANTY AND LIABILITY" statement in the label booklet for YUKON Herbicide before using. These terms apply to this SUPPLEMENTAL LABELING and if these terms are not acceptable, return the product unopened at once.

Formulated in the United States, contains the Active Ingredient halosulfuron-methyl which is made in Japan by Nissan Chemical Industries, Ltd. Product protected by U.S. Patent No. 4,668227