



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON D C 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Scott Baker Lighthouse Product Services 3937 Cedarwood Lane Johnstown, CO 80534 12-6-12

Subject EPA Reg 89168-2 / Liberty Dicamba +2,4-D DMA Notification

Dear Mr Baker

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated 10-18-12 for the product EPA Reg 89168-2 / Liberty Dicamba +2,4-D DMA The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records. The revised basic csf is acceptable.

If you have any questions please call Erik Kraft at 703-308-9358 or email at Kraft Erik@epa gov

Sincerely,

Kathryn Montague Product Manager 23

Herbicide Branch

Registration Division (7505P)

Myn

5 Date

4 Typed Name Scott Baker

October 18, 2012



October 18 2012

Document Processing Desk (REGIS)
Office of Pesticide Programs
U.S. Environmental Protection Agency
One Potomac Yard Room S-4900
2777 S. Crystal Drive
Arlington VA 22202

Subject LIBERTY DICAMBA + 2 4-D DMA EPA Reg No 89168-2

Lighthouse Product Services LLC Regulatory Agent for Liberty Crop Protection LLC is submitting the enclosed documentation to update the EPA files with new labeling and Confidential Statements of Formula for the subject product. This product was recently transferred to Liberty. Please find the following enclosed.

- 1 Application Form 8570-1
- 2 1 copy of updated label
- 3 2 copless of updated Basic CSf

In addition to the product name company identification EPA Registration number the date code and the Conditions of Sale and Limitation of Warranty and Liability being updated and some minor formatting

This notification is consistent with the provisions of PR Notice 98 10 and EPA regulations at 40 CFR 152 46 and no other changes have been made to the labeling or the confidential statement of formula of the confidential statement of the confidential statement of the confidential statement of formula of the confidential statement of

I also changed recommended rates to specified or Listed as appropriate

Please contact me at 970-313-6654 or by e-mail <u>sbaker@lhpsonline.com</u> if there are any questions or comments concerning this submission

Sincerely,

Scott Baker

Regulatory Agent for Liberty Crop Protection LLC

Nod'sicula 1/21
Acceptable

LIBERTY DICAMBA + 2,4-D DMA

For use on Conservation Reserve Program Land, Fallow Systems (Between Crop Applications), General Farmstead, Sorghum, Grass (Hay or Silage), Pastures, Rangeland, Sugarcane, and Wheat

ACTIVE INGREDIENT(S)

Dimethylamine salt of 3 6 dichloromethoxybenzoic acid*

Dimethylamine salt of 2 4 dichlorophenoxyacetic acid**

36 0%

INERT INGREDIENTS

TOTAL

100 0%

DANGER/PELIGRO

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

See inside booklet for complete Precautionary Statements and Directions for Use

	EPA	Rea	No	89168	2
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EPA Est No XXXXX XX XXX

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Net Contents _____

Manufactured For LIBERTY CROP PROTECTION LLC 3937 CEDARWOOD LANE JOHNSTOWN CO 80534

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	FIRST AID		C	
IF IN EYES	Hold eye open and rinse slowly and gently with water for 15 20 minutes Remove contact lenses if present after first 5 minutes then continue rinsing eye	, (()	c (((
	Call a poison control center or doctor for treatment advice	(((· ·	
IF ON SKIN OR	Take off contaminated clothing			
CLOTHING	Rinse skin immediately with plenty of water for 15 20 minutes		<u>,</u> ιι	
	Call a poison control center or doctor for further treatment advice		•	
IF INHALED	Move person to fresh air		C	
	If person is not breathing call 911 or an ambulance then give artificial respiration	preferably mo	outh to mouth if po	ossible
	Call a poison control center or doctor for further treatment advice			
IF .	Call a poison control center or doctor immediately for treatment advice			
SWALLOWED	Have a person sip a glass of water if able to swallow			
	Do not induce vomiting unless told to do so by a poison control center or doctor			
	Do not give anything by mouth to an unconscious or convulsing person			
	HOT LINE NUMBER			
	ntainer or label with you when calling a poison control center or doctor or going for treatr	ment You may	also	
contact 1 800 222 12	222 for emergency medical treatment information			
NOTE TO PHYSICIA	N Probable mucosal damage may contraindicate the use of gastric lavage			

^{*}This product contains 10 4% dicamba or 1 pound per gallon (120 grams per liter) acid equivalent ** This product contains 29 9% 2 4 D or 2 87 pounds per gallon (344 grams per liter) acid equivalent Isomer specific by AOAC method 978 05 15th Edition

PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals

DANGER Corrosive Causes irreversible eye damage. Do not get in eyes or on clothing. Wear goggles. Harmful if swallowed inhaled or absorbed through skin. Avoid contact with skin. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating drinking chewing gum or using tobacco. Remove contaminated clothing and wash before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are butyl rubber natural rubber neoprene or nitrile rubber. If you want more options follow the instructions for category A on an EPA chemical resistance category selection chart.

All mixers, loader, applicator, flaggers, and other handlers must wear

Long Sleeved shirt and long pants

Shoes plus socks and

Chemical resistant gloves (except for applicators using groundboom equipment pilots and flaggers) and

Chemical resistant apron when mixing or loading cleaning up spills or equipment or otherwise exposed to the concentrate

See Engineering Controls for additional requirements

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow the 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. After each day of use, clothing or PPE must not be re-used until it has been cleaned.

Engineering Control Statements

Pilots must use an enclosed cockpit that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170 240(d)(6)] When handlers use enclosed 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

If this container contains over 1 gallon and less than 5 gallons mixers and loaders who do not use a mechanical system (probe and pump) to transfer the contents of this container must wear coveralls or a chemical resistant apron in addition to the other required PPE

If this container contains 5 gallons or more in capacity do not open pour. A mechanical system (such as a probe and pump or spigot) must be used for transferring the contents of this container. If the contents of a non refillable pesticide container are emptied, the probe must be rinsed before removal. If the mechanical system is used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170 240 (d) (4)] 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/PPE immediately if pesticide gets inside. If pesticide gets on skin, wash immediately with soap and water. 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

ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic invertebrates. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift or runoff may be hazardous to aquatic organisms in water adjacent to treated areas and non target plants. Do not contaminate water when disposing of equipment washwaters or rinsate.

Groundwater Contamination

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable particularly where the water table is shallow may result in groundwater contamination. Application around a cistern or well may result in contamination of drinking water or groundwater.

Most cases of groundwater contamination involving phenoxy herbicides such as 2 4 D have been associated with mixing/loading and disposal sites. Caution should be exercised when handling 2 4 D pesticides at such sites to prevent contamination of groundwater supplies. Use of closed systems for mixing or transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

Endangered Species Concerns

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The use of any pesticide in a manner that may kill or otherwise harm and endangered species or adversely modify their habitat is a violation of federal law

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a 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.

Unless otherwise directed in supplemented labeling all applicable directions restrictions precautions and Conditions of Sale and Warranty are to be followed. This labeling must be in the user's possession during application.

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 **48 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 sleeve shirt and short pants
- Chemical resistant footwear plus socks
- Chemical resistant gloves made of any waterproof material
- Chemical resistant headgear for overhead exposure and
- Protective eyewear

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170) The WPS applies when this product is used to produce agricultural plants on farms forests nurseries or greenhouses

Do not enter or allow others to enter until sprays have dried

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STORAGE AND DISPOSAL

PROHIBITIONS Do not contaminate water food or feed by storage or disposal. Do not store under conditions that might adversely affect the container or its ability to function properly

PESTICIDE STORAGE Do not store below temperature of 32 F or above 100°F Store in original container in a well ventilated area separately from fertilizer feed and foodstuffs Keep container tightly closed when not in use Reduce stacking height where local conditions can affect package strength

Steps to be taken in case material is released or spilled. Dike and contain the spill with inert material (sand earth etc) and transfer liquid and solid diking material to separate containers for disposal. Remove contaminated clothing, and wash affected skin areas with soap and water. Wash clothing before re use. Keep the spill out of all sewers and open bodies of water.

PESTICIDE DISPOSAL Pesticide wastes are toxic. Wastes resulting from this product may be disposed of on site or at an approved waste disposal facility. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law and may contaminate groundwater. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL Non refillable containers Plastic/Metal Containers Do not reuse or refill this container. Offer for recycling or reconditioning 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. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

Non refillable container less than or equal to 5 gallons. 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.

Non refillable container greater than 5 gallons 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 Replace and tighten closures. Tip container on its side and roll it back and forth ensuring at least one complete revolution for 30 seconds. Stand the container on its end and tip back and forth several times. Turn the container over on its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Pressure rinse as follows (all sizes) Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable containers (Drum/Bulk/Mini bulk) Refill this container with pesticide only. Do not reuse this container for any other purpose Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. If not returned to the point of purchase or to the designated location, triple rinse emptied container and offer for recycling. Disposal of this container must be in compliance with state and local regulations.

When this container is empty replace the cap and seal all openings that have been opened during use and return the container to the point of purchase or to a designated location named at the time of purchase of this product in a bulk container. Prior to refilling inspect carefully for damage such as cracks, punctures, abrasions, worn out threads and closure devices. Check for leaks after refilling and before transporting. Do not transport if this container is damaged or leaking.

To clean the container before final disposal empty the remaining contents from the container into application equipment or mix tafik 'Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

I PRODUCT INFORMATION

LIBERTY DICAMBA + 2,4 D DMA herbicide is a selective postemergence herbicide for controlling a wide spectrum of annual biennial and perennial broadleaf weeds and brush in grass forages and selected row crops

Mode of Action

LIBERTY DICAMBA + 2,4 D DMA contains two active ingredients uniquely formulated to be used alone or tank mixed with other listed products as well as liquid fertilizer solutions LIBERTY DICAMBA + 2,4 D DMA is readily absorbed by plants through shoot and root uptake translocates throughout the plant's system and accumulates in areas of active growth LIBERTY DICAMBA + 2,4 D DMA interferes with the plant's growth hormones (auxins) resulting in death of many broadleaf weeds

II APPLICATION INSTRUCTIONS

Apply LIBERTY DICAMBA + 2,4 D DMA at the rates and growth stages listed in Tables 1 and 2 as follows unless instructed differently by section on Food/Feed Crop Specific Information or Non Food/Feed Use Specific Information Applications can be made to actively growing weeds as aerial broadcast band or spot spray applications LIBERTY DICAMBA + 2,4 D DMA may be applied using water or sprayable fluid fertilizer as a carrier Sprayable fluid fertilizer may be used as the carrier in preplant or pre emergence use for all crops listed on this label

Postemergence uses with sprayable fluid fertilizer may be made on pasture hayland or wheat crops only

The most effective application rate and timing varies based on the target weed species (refer to Table 1) In mixed populations of weeds the correct rate is determined by the weed species requiring the highest rate. Delaying application permits weeds to exceed the maximum size and will prevent adequate control

Irrigation

In irrigated areas it may be necessary to irrigate before treatment to ensure active weed growth

Spray Coverage

Weeds must be thoroughly covered with spray. Dense leaf canopies shelter smaller weeds and prevent adequate spray coverage

Sensitive Crop Precautions

LIBERTY DICAMBA + 2,4 D DMA 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 LIBERTY DICAMBA + 2 4 D DMA during their development or growing stage. Do not treat areas where either possible downward movement into the soil or surface washing may cause contact of LIBERTY DICAMBA + 2,4 D DMA with the roots of desirable trees and shrubs

Do not use aerial equipment or apply LIBERTY DICAMBA + 2,4 D DMA when sensitive crops and plants are growing in the vicinity of area to be treated

SPRAY DRIFT MANAGEMENT

A variety of factors including weather conditions (e.g. wind direction wind speed temperature relative humidity) and method of application (e.g. ground aerial airblast chemigation) can influence pesticide drift. The applicator must evaluate all factors and make appropriate adjustments when applying this product

Droplet Size When applying sprays that contain 2 4 D as the sole active ingredient or when applying sprays that contain 2 4 D mixed with active ingredients that require a Coarse or coarser spray apply only as a Coarse or coarser spray (ASAE standard 572) or a volume mean diameter of 385 microns or greater for spinning atomizer nozzles

When applying sprays that contain 2.4 D mixed with other active ingredients that require a Medium or more fine spray apply only as a Medium or coarser spray (ASAE standard 572) or a volume mean diameter of 300 microns or greater for spinning atomizer nozzles

Wind Speed Do not apply at wind speeds greater than 15 mph. Only apply this product if the wind direction favors on target deposition and there are not sensitive areas (including but not limited to residential areas bodies of water known habitat for nontarget species nontarget crops) within 250 feet downwind. If applying a Medium spray leave one swath unsprayed at the downwind edge of the treated field.

Temperature Inversions If applying at wind speeds less than 3 mph the applicator must determine if a) conditions of temperature inversion exist or b) stable atmospheric conditions exist at or below nozzle height. Do not make applications into areas of temperature inversions or stable atmospheric conditions.

Susceptible Plants Do not apply under circumstances where spray drift may occur to food forage or other p antings that might be damaged or crops thereof rendered unfit for sale use or consumption. Susceptible crops include but are not limited to solver, okra flowers grapes (in growing stage) fruit trees (foliage) soybeans (vegetative stage) ornamentals sunflowers tomatoes beans and other vegetables for tobacco Small amounts of spray drift that might not be visible may injure susceptible broadleaf plants. Do not spray near susceptible plants if the wind is gusty or in excess of 5 mph and moving in the direction of nearby susceptible crops or if a temperature inversion exists. However, always make applications when there is some air movement to determine the direction and distance of possible spray drift. Leave an adoquate buffer zone between area to be treated and susceptible plants. Coarse sprays are less likely to drift out of the target area than fine sprays. The use of agriculturally accepted drift retardants are acceptable and advised.

Other State and Local Requirements Applicators must follow all state and local pesticide drift requirements regarding application of 2.4 D herbicides. Where states have more stringent regulations, they must be observed.

Equipment All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers and surrogates

Cleaning Spray Equipment Clean application equipment thoroughly by using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions and then triple rinse the equipment before after use applying this product

AERIAL APPLICATION METHODS AND EQUIPMENT

Water Volume Use 3 10 gallons of water per acre Use the higher spray volume when treating dense or tall vegetation

Application Equipment Select nozzles designed to produce minimal amounts of fine spray particles. Make applications at the lowest stage height to reduce the exposure of spray droplets to evaporation and wind

The boom height must note exceed 75% of the wingspan or 90% of the rotor blade diameter

Release spray at the lowest height consistent with efficacy and flight safety. Do not release spray at a height greater than 10 feet above the canopy unless a greater height is required for aircraft safety. This requirement does not apply to forestry or rights of way applications.

When applications are made with a crosswind the swath will be displaced downwind. The applicator must compensate for this by adjusting the path of the aircraft upwind.

The applicator must follow the most restrictive use cautions to avoid drift hazards including those found in the this labeling as well as applicable state and local regulations and ordinances

Do not use aerial equipment if spray particles can be carried by the wind into areas where sensitive crops or plants are growing or when temperature inversions exist

Table 1, Application Rate and Timing Annual Weeds

Weeds Controlled	Rate Per Acre (according to weed growth stage)								
(including ALS and triazine resistant)	0 5 pints	1 0 pints	1 5 pints	2 pints	3 pints	4 pints			
Beebalm Spotted				pre bloom	post bloom				
Broomweed	13	3 branching		branching		after branching			
Buckwheat Wild		1-6							
Buffalobur				1-6		flowering			
Burdock		pre flower							
Buttercup		pre flower		early bloom	late bloom				
Chickweed Common		seedling	1 3						
Cockle Cow		< 3							
Cocklebur Common		16	6 12	12 18					
Coreopsis Plains		1 6							
Croton Woolly	1-4	4 12	12 30						
Devil s claw				< 8					
Dogfennel				10 15					
Evening Primrose		< 2		2 6					
Falseflax Smallseed		< 2				c c			
Fleabane Annual		1-4	4 8	8		C C C C C C C C C C C C C C C C C C C			
Fixweed		< 3		**		(,,,,,,			
Henbit			preflower		flower	1			
Knotweed Spp		< 3 runners		> 3 runners	flower	(41_4			
Kochia		16	6 10	10 20	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	· ·			
_ambsquarters Common		16	6 10	10 20		(((
Mallow Common		< 3			(-1, -2, -2, -2, -2, -2, -2, -2, -2, -2, -2				
Morning glory lvyleaf		pre flower				, ,			
Tall	, , , , , , , , , , , , , , , , , , , ,	pre flower		post flower					
Mustards Annual		Rosette		early bolt		ι			
Tansy		< 3							
Nightshade Black				full flower		actively growing			
Pennycress Field				rosette					
Pepperweed Virginia			1 3	3-6	after branching				
Pigweed Prostrate		< 3							
Redroot		< 3	3 10						
Smooth		< 3							
Tumble		< 3		mature					
Poorjoe		prior to flower				actively growing			

Purslane Common		< 3	3 8			
Ragweed Common	13	3 6	6 10	>10		
Western Lanceleaf	13	3 6	6 10	actively growing		
Sedge ¹				< 4 leaves		
hepherdspurse		rosette				
martweed Pennsylvania		<4			4 12	
neezeweed Bitter		1 4	prior to flower	flower		
owthistle Annual		rosette		bolting		
unflower		13	3 6	6 24		
histle Russian				< 3		
elvetleaf		< 6	6 20	> 20		

Table 2 Application Rate and Timing Biennial and Perennial Weeds

	Rate Per Acre (according to weed growth stage)						
Weeds Controlled	0 5 pints	1 0 pints	1 5 pints	2 pints	3 pints	4 pints	
Bindweed Field						actively growing	
Bittercress ⁵		2 3					
Buckeye species¹					full leaf		
Bullnettle ^{2 5}				flower			
Chicory				rosette	early bolting		
Clove Bur			pre flower				
Dandelion Common		rosette		bolting			
Dewberry Southern ¹						spring or fall	
Dock Curly			prior to bolting		after bolting		
Elderberry ²						actively growing	
Goldenrod Missouri				3 15	flower		
Groundsel Texas		rosette	post bolting				
Honeysuckle Hairy					spring or fall		
Horsenettle Carolina ¹	-	_	_	_	- 1	Effo iercot berry	
Ivy Poison	-	-	-	after bloom	-	, , , , , , , , , , , , , , , , , , ,	
Knapweed Black ²	_	_	-	-	7,0,4,0	actively growing	
Russian ²	-	-	-	-	_ '	Fcfihelhatomiud	
Spotted	-	_	-	-	- ((actively growing	
Lettuce Prickly				rosette	(((actively growing	
Marshelder		_	_	<12	12 /prebloom	(((((
Mesquite ³		_	_	_	_	45 90 days	
						after budbreak	
Milkweed ^{1 5}	-	-	_	pre flower	_	flower	
Nightshade Silverleaf ¹	-	_	-			full flower	
Persimmon Eastern ³	-	_	-	-	_	actively growing	
Rabbitbrush ²	-	-	-	-	-	actively growing	
Ragwort Tansy	-		-	rosette	-	actively growing	
Redvine ²	_	_	-	_	-	actively growing	
Sagebrush Fringed ²	_	_	-	_	-	actively growing	

Smartweed Perennial	_	-	-	_	_	actively growing
Sorrel Red		_	rosette	bolting	flower	
Sowthistle ² Perennial	-	-	_	-	_	actively growing
Spurge Leafy ²	_	_	_	_	_	full leaf
Tallow Tree Chinese ^{4 5}	_	-	-	-	_	actively growing
Thistle Bull	_	-	rosette	bolting	_	
Canada²	_	-	_	_	_	-
Musk	-		-	rosette/bolting	_	_
Plumeless	_	_	rosette	bolting	_	_
Vetch Hairy	-	1-4	4 8	8 full flower		_
Yankeeweed	-	-	-	10 18	_	
Yellow Starthistle ¹	_	-	_	_	-	rosette

¹ May require repeat applications

Ground Application (Banding)

When applying LIBERTY DICAMBA + 2,4 D DMA herbicide by banding determine the amount of herbicide and water volume needed using the following formula

Bandwidth in inches x Broadcast rate = Banding herbicide Row width in inches per acre rate per acre

Bandwidth in inches x Broadcast rate = Banding water

Row width in inches volume per acre volume per acre

Ground Application (Broadcast)

Water volume Use 5 40 gallons of spray solution per broadcast acre for optimal performance. Use the higher spray volume when treating dense or tall vegetation

Application Equipment Select nozzle design to produce minimal amounts of fine spray particles. Spray nozzles as close to the weeds as is practical for good weed coverage.

Do not apply with a nozzle height greater than 4 feet above the crop canopy

Spot or Small Area Application

LIBERTY DICAMBA + 2,4 D DMA may be applied to individual clumps or small areas of undesirable vegetation using handgunce is milar types of application equipment. Apply diluted sprays to allow complete wetting (up to runoff) of foliage and stems. For ki apsack or other small capacity sprayers prepare a solution of LIBERTY DICAMBA + 2,4 D DMA in water according to Table 3 (assuming that the soot treatment rate equates to 60 gallons pre acre on the broadcast basis.) Adding a surfactant (0.5% by volume) can help improve control.

For example 5 gallons (40 pints or 640 fluid ounces) of herbicide solution would require 0.2 pints (3.2 fluid ounces) of surfactant

Do not make spot treatments in addition to broadcast or band treatments

Application equipment Select nozzles designed to produce minimal amounts of fine spray particles. Spray with nozzles as close to the weeds as is practical for good weed coverage.

Table 3 - Knapsack Sprayer Dilution Instructions

Sprayer Capacity Amount of **DICAMBA + 2, 4-D DMA**

² Specified rate will provide top growth suppression only

³ For improved root kill or woody species such as mesquite and eastern persimmon spray 4 pints of per acre **LIBERTY DICAMBA + 2 4-D DMA** each crop season for 3 consecutive crop seasons. For increased control of weeds such as blackberry and dewberry **LIBERTY DICAMBA + 2 4 D DMA** may be tank mixed with Ally® herbicide (0 1 0 2 ounces per acre) if labeled for the use site

⁴ Under dense populations a second application may be needed the following growing season

⁵ Not for use in California

(gallons of water)	to add to the spray tank
1 gallon	1 fluid ounce
3 gallons	3 fluid ounces
5 gallons	5 fluid ounces

¹ fluid ounce = 2 tablespoons

III ADDITIVES

To improve burndown of emerged weeds surfactants and/or low use rates of liquid fertilizers (28 0 0 32 0 0) or crop oil concentrate may be used with LIBERTY DICAMBA + 2,4 D DMA herbicide or LIBERTY DICAMBA + 2,4 D DMA tank mixes applied after the weeds have emerged. Crop oil concentrate is for non-food/feed crop uses only. Do not apply tank mixes that include Ammonium Sulfate or Crop Oil Concentrate to any food/feed crop use listed on this label. For food/feed crop use do not use liquid fertilizers that contain Ammonium Sulfate (AMS) as a source of nitrogen as tolerances in commodities derived from the crop may contain residues that exceed established tolerances.

Oil Concentrate

A crop oil concentrate must contain either a petroleum or vegetable oil base and must meet all of the following criteria

- be non phytotoxic
- contain only EPA exempt ingredients
- provide good mixing quality in the jar test and
- be successful in local experience

The exact composition of suitable products will vary however vegetable oil and petroleum oil concentrates should contain emulsifiers to provide good mixing quality. Highly refined vegetable oils have proven more satisfactory than unrefined vegetable oils. For additional information see Compatibility Test for Mix Components.

Adjuvants containing crop oil concentrates may be used for preplant pre emergence and between cropping applications. Do not use crop oil concentrate for postemergence applications in food/feed crops (i.e. sorghum, grass (hay or silage), pastures rangeland, sugarcane and wheat.)

Nitrogen Source

• Sprayable liquid fertilizers Use one quart of sprayable liquid fertilizers (28 0 0 32 0 0) per acre Do not use brass or aluminum nozzles when spraying fertilizers

Nonionic Surfactant

The standard label recommendation is 2.4 pints of an 80% active non ionic spray surfactant per 100 gallons of water. For certain weeds use a higher spray surfactant rate

Table 4 Additive Rate Per Acre

Additive ¹	Rate Additive Per Acre	
Nonionic Surfactant	2 4 pints per 100 gallons	
Sprayable Liquid Fertilizers (28 0 0 32 0 0)	½ GPA of spray s(lūtion ⊆	(
Crop Oil Concentrate	1 quart* '	((

^{*} See manufacturer s label for specific rate recommendations

IV TANK MIXING INFORMATION

Tank Mix Partners/Components

The following products may be tank mixed with LIBERTY DICAMBA + 2,4 D DMA according to the specific tank mixing instructions in this label and respective product labels

- Aım™(carfentrazone ethyl)
- Ally® (metsulfuron methyl)
- Amber® (triasulfuron)
- Basagran® (bentazon)
- Bronate® (bromoxynil + MCPA)

- Buctril® (bromoxynil)
- Canvas® (thifensulfuron methyl + tribenuron methyl + metsulfuron methyl)
- Clarity® (dicamba)
- Curtail™ (clopyralid + 2 4 D)
- Cyclone® (paraguat)

- Dakota® (fenoxaprop p ethyl + MCPA)
- Distinct® (diflufenzopyr + dicamba)
- Evik® (ametryn)
- Express® (tribenuron methyl)
- Fallowmaster® (glyphosate + dicamba)
- Finesse® (chlorsulfuron + metsulfuron methyl)
- Glean® (chlorsulfuron)
- Gramoxone® Extra (paraquat)
- Harmony® Extra (thifensulfuron methyl + tribenuron methyl)
- Karmex® (diuron)
- Kerb TM (pronamide)
- Laddok® S 12 (bentazon + atrazine)
- Landmaster® (glyphosate + 2 4 D)
- Lexone® (metribuzin)

- MCPA
- Paramount® (quinclorac)
- Peak® (prosulfuron)
- Permit® (halosulfuron methyl)
- Rave™ (dicamba + triasulfuron)
- Roundup® Ultra (glyphosate)
- Sencor® (metribuzin)
- Sinbar® (terbacil)
- StingerTM (clopyralid)
- Tiller® (fenoxaprop p ethyl + 2 4 D + MCPA)
- Tordon™ (picloram)
- Touchdown® (glyphosate)
- 2.4 D

See FOOD/FEED CROP SPECIFIC INFORMATION section for more information for more details. Read and follow the applicable Restrictions and Limitations and Directions for Use on all products involved in tank mixing. The most restrictive labeling applies to tank mixes

Physical incompatibility reduced weed control or crop injury may result from mixing LIBERTY DICAMBA + 2,4 D DMA with other pesticides (fungicides herbicides insecticides or miticides) additives or fertilizers

Compatibility Test for Mix Components

Before mixing components always perform a compatibility jar test. For 20 gallons per acre spray volume use 3 3 cups (800 ml) of water. For other spray volumes adjust accordingly. Only use water from the intended source at the source temperature.

Add components in the sequence indicated in the Mixing Order using 2 teaspoons for each pound or 1 teaspoon for each pint of specified label rate per acre

Always cap the jar and invert 10 cycles between component additions

When the components have all been added to the jar let the solution stand for 15 minutes. Evaluate the solution for uniformity and stability. The spray solution should not have free oil on the surface nor fine particles that precipitate to the bottom nor thick (clabbered) texture. If the spray solution is not compatible repeat the compatibility test with the addition of a suitable compatibility agent. If the solution is still incompatible do not mix the ingredients in the same tank.

Mixing Order

If an inductor is used rinse it thoroughly after each component has been added. Maintain constant agitation during application

- 1 Water Begin by agitating a thoroughly clean sprayer tank half full of clean water
- 2 **Agitation** Maintain constant agitation throughout mixing and application
- 3 Products in PVA bags Place any product contained in water soluble bags into the mixing tank. Wait unt fail vater soluble PVA bags have fully dissolved and the product is evenly mixed in the spray tank before continuing
- 4 Water dispersible products (such as dry flowables wettable powders suspension concentrates and suspo-amulsions)
- 5 Water soluble products (such as LIBERTY DICAMBA + 2,4 D DMA)
- 6 **Emulsifiable concentrates** (such as oil concentrate when applicable)
- Water soluble additives (such as liquid fertilizers (28 0 0 32 0 0) when applicable)
- 8 Remaining quantity of water

* If sprayable fluid fertilizer is used as the carrier LIBERTY DICAMBA + 2,4 D DMA must be diluted with a minimum of 5 parts water to 1 part LIBERTY DICAMBA + 2,4 D DMA. Then add 0 25 0 05% volume/volume of a nonionic surfactant to the dilution before adding it to the sprayable fluid fertilizer to reduce the concern for compatibility problems with this mix. Always perform the Compatibility Test before mixing into the spray tank. Also when using a sprayable fluid fertilizer as the carrier any product contained in PVA bags must first be completely dissolved in water before the contents can be added to the fertilizer mix.

V RESTRICTIONS AND LIMITATIONS

Maximum seasonal use rate Refer to Table 5

Preharvest Interval (PHI) Refer to Food/Feed Crop Specific Information

Restricted entry Interval (RE) 48 Hours

Crop Rotational Restrictions The interval between application and planting rotational crop is given below. Always exclude counting days when the ground is frozen. Planting at intervals less than specified below may result in crop injury. Moisture is essential for the degradation of this herbicide in soil. If dry weather prevails use cultivation to allow herbicide contact with moist soil.

Planting/replanting restrictions for LIBERTY DICAMBA + 2,4 D DMA herbicide applications of 6 pints per acre or less No rotational cropping restrictions apply at 120 days or more following application Additionally for annual crop uses in this label including sorghum follow the preplant use directions in section. Food/Feed Crop Specific Information. For barley oat wheat and other grass seedings, the interval between application and planting is 10 days per pint per acre.

Planting/replanting restrictions for applications of more than 6 pints and up to 8 pints of LIBERTY DICAMBA + 2,4 D DMA per acre. Corn sorghum cotton (east of the Rocky Mountains) and all other crops grown in areas with 30 or more of annual rainfall may be planted 120 days or more after application. Barley out wheat and other grass seedings may be planted if the interval from application to planting is 10 days per pint per acre east of the Mississippi River and 15 days per pint per acre west of the Mississippi River. For all other crops in areas with less than 30 of annual rainfall, the interval between application and planting is 180 days or more.

- Rainfast Period Rainfall or irrigation occurring within 4 hours after postemergence applications may reduce effectiveness of LIBERTY DICAMBA + 2,4 D DMA
- Stress Do not apply to crops under stress such as stress due to lack of moisture hail damage flooding herbicide injury mechanical injury or widely fluctuating temperatures as unsatisfactory control may result
- Do not apply to crops that show **injury** (leaf phytotoxicity or plant stunting) produced by any other prior herbicide applications because this injury may be enhanced or prolonged
- Do not apply this product though any type of irrigation equipment
- Do not contaminate irrigation ditches or water used for domestic purposes
- This product cannot be used to formulate or reformulate another pesticide product

Table 5 Crop Specific Restrictions and Limitations

Crop	Maximum Rate Per Acre Per Application	Maximum Rate Per Acre Per Season	Livestock Grazing or Feeding¹	Aircraft Application	Comments
Between Crop Applications	5 5 pints	8 pints	Yes	Yes	Plant only labeled crops within 29 days following application Limited to 2 applications per year Minimum of 30 days between applications Maximum of 5 5 pints LIBERTY DICAMBA + 2 4-D DMA per acre per application (8 pints LIBERTY DICAMBA + 2 4 D DMA per acre per year) Maximum of 2 0 lb ae 2 4 D and 1 0 lb ae dicamba per
Pasture Hay, Silage	4 pints	8 pints	Yes	Yes	Maximum of 2 applications per year Minimum of 30 days between applications Maximum of 4 pints ξΙΒΕΠΤΎ DICAMBA + 2,4-D DMA per acre per application (8 pints LIBERTY DICAMBA + 2 4 D DMA per acre per year, Maximum of 4 0 lb ae 2 4 D per acre per year
Sorghum	1 pint	1 pint	Yes	Yes	Limited to one application per crcp cycle
Sugarcane	5 5 pints	11 pints	Yes	Yes	Limited to one application per crop cycle
Wheat Postemergence		3 33 pints	Yes	Yes	Limited to one postermegence and one preharies application per crop cycle. Limited to 4.8 onts LIBERTY DICAMBA + 2.4 D DMA per acre per year cc. c. c. Postemergence Maximum 1.25 lb ae 2.4 D oper acre per application (3.33 pints LIBERTY DICAMBA + 2.4 D DMA per acre per application) Preharvest Maximum of 0.5 lb ae 2.4 D per acre per
Preharvest		1 4 pints	Yes	Yes	application (1 4 pints LIBERTY DICAMBA + 2 4-D DMA per acre per application)

¹Refer to FOOD/FEED CROP SPECIFIC INFORMATION for grazing and feeding restrictions

VI FOOD/FEED CROP SPECIFIC INFORMATION

Pastures, Rangeland and Grass (Hay, Silage)

LIBERTY DICAMBA + 2,4 D DMA is recommended for use for pasture (including pasture grown for hay) rangeland grass grown for hay or silage between crop applications/fallow systems. Conservation Reserve Programs and general farmstead (non cropland only)

Refer to **Tables 1** and **2** for rate selection based on targeted weed or brush species. Some weed species will require tank mixes for adequate control

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Rates above 4 pints of LIBERTY DICAMBA + 2,4 D DMA per acre are for spot treatments only

Crop Specific Restrictions

Do not exceed a total of 8 pints of **LIBERTY DICAMBA + 2,4 D DMA** per treated acre during a crop season Maximum of 4 0 lb ae 2 4 D per acre per year

· Maximum of 2 applications per year

Minimum of 30 days between applications

Maximum of 5 5 pints LIBERTY DICAMBA + 2 4 D DMA per acre per application per year

For spot treatment do not exceed 5 5 pints LIBERTY DICAMBA + 2,4 D DMA per acre

Uses described in this section also pertain to small grains (such as barley corn forage sorghum oats rye sudangrass or wheat) grown for pasture hay and silage only Newly seeded areas including small grains grown for pasture or hay may be injured if rates of LIBERTY DICAMBA + 2,4 D DMA are greater than 2 pints per acre are applied

In newly established hybrid Bermudagrass Pangolagrass and stargrasses (*Cynodon* spp) use 2 to 4 pints of **LIBERTY DICAMBA + 2,4 D DMA** per acre to control or suppress weeds after planting vegetative propagules (stolens) of hybrid bermudagrasses. In addition to the weeds listed in **Tables 1** and **2**, this rate of **LIBERTY DICAMBA + 2,4 D DMA** will control or suppress annual sedges broadleaf signalgrass crabgrass and goosegrass.

Best results will be obtained if LIBERTY DICAMBA + 2 4 D DMA is applied at the germinating stage of weeds. Under favorable conditions, this is usually 7 10 days after planting these grasses. Reduced control can be expected if weeds are allowed to reach 1 in height before application or if germination of weeds occurs 10 days after application.

Do not use on bentgrass susceptible grass pastures (such as carpetgrass buffalograss or St Augustine grass) lezpedeza wild winter peas vetch clover and alfalfa pastures as injury will occur

When perennial weeds are reaching maturity mowing and allowing some regrowth will enhance control. Difficult to control weeds and brush may require a repeat application

For pasture renovations, wait 3 weeks per quart (2 pints) of LIBERTY DICAMBA + 2,4 D DMA used per acre before interseeding or injury may occur

If grasses are grown for seed or for seed down purposes do not apply after grass reaches joint stage

Grazing and Feeding Non Lactating Animals There is no waiting period between treatment and grazing for non lactating animals. Do not permit meat animals being finished for slaughter to graze treated fields within 30 days of slaughter.

Grazing and Feeding Lactating Animals Do not graze lactating dairy animals within 7 days of treatment

Dry hay and Silage Treated grasses may be harvested for dry hay or silage but do not harvest within 37 days of treatment

Pasture and Rangeland Tank Mixes

LIBERTY DICAMBA + 2,4 D DMA may be applied in tank mixes with one or more of the following herbicides

Ally® Banvel® Clarity® Rave®

Sorghum

Rates and Timings

Apply 1 pint of LIBERTY DICAMBA + 2,4 D DMA per acre to sorghum in the 3 5 leaf stage (4 8 tall) For best performance apply when weeds are small (less than 3 tall)

Applications of LIBERTY DICAMBA + 2,4 D DMA to sorghum during periods of rapid growth may result in temporary leaning of plants or rolling leaves. These effects are usually outgrown within 10 14 days. Sorghum growing under conditions of stress such as high moisture, low fertility, and abnormal temperature may be more sensitive to applications of LIBERTY DICAMBA + 2,4 D DMA.

Crop Specific Restrictions

Do not use surfactants or oils with postemergence applications of LIBERTY DICAMBA + 2,4 D DMA on sorghum crops Do not use LIBERTY DICAMBA + 2,4 D DMA if the potential for sorghum injury is not acceptable

 Do not apply LIBERTY DICAMBA + 2,4 D DMA to sorghum grown for seed production Limited to 1 application per crop cycle

Maximum of 1 pint LIBERTY DICAMBA + 2 4 D DMA per acre per crop season

If sorghum is grown for pasture hay or silage refer to Pastures, Rangeland and Grass (Hay, Silage) under Food/Feed Crop Specific Information ' for livestock grazing and feeding restrictions

Sorghum Tank Mixes

LIBERTY DICAMBA + 2,4 D DMA may be applied in tank mixes with one or more of the following herbicides

Atrazine
Basagran®
Buctril®

Laddock® S 12 Paramount®

Peak® Permit®

<u>Sugarcane</u>

Applications of LIBERTY DICAMBA + 2,4 D DMA can be made any time after weeds have emerged and are actively growing but prior to the close in stage of sugarcane. When possible direct the spray beneath the sugarcane canopy in order to minimize the likelihood of crop injury. The use of directed sprays will also aid in maximizing spray coverage of weed foliage. Application rates and timing are given below. Use the higher level of listed rate ranges when treating dense vegetative growth.

Rate

- For control of listed annual broadleaf weeds apply 2 pints of LIBERTY DICAMBA + 2,4 D DMA per treated acre
- For suppression of listed perennial weeds apply 1 6 pints of LIBERTY DICAMBA + 2,4 D DMA per treated acre

Crop Specific Restrictions

Limited to 1 application per crop cycle

Do not exceed a maximum of 5 5 pints LIBERTY DICAMBA + 2 4-D DMA per application

Maximum of 11 pints LIBERTY DICAMBA + 2 4-D DMA per acre per year

Sugarcane Tank Mixes

LIBERTY DICAMBA + 2,4 D DMA may be applied in tank mixes with one or more of the following herbicides

 Asulox®
 Lexone®

 Atrazine
 Sencor®

 Evik®
 Sinbar®

Wheat

(Fall and Spring seeded)

If small grains are grown for pasture or hay only refer to Pastures, Rangeland and Grass (Hay, Silage)

Crop Specific Restrictions

Do not graze or harvest for livestock feed prior to crop maturity

Do not use LIBERTY DICAMBA + 2,4 D DMA in wheat underseeded with legumes

Applications are limited to 1 postemergence application per crop cycle and 1 preharvest application per crop cycle with a maximum application of 175 lb ae 2 4 D per acre per year (4 8 pints LIBERTY DICAMBA + 2 4-D DMA per acre per year)

Postemergence

- Limited to 1 application per crop cycle
- Maximum application rate of 1 25 lb ae 2 4 D per acre per application (3 33 pints LIBERTY DICAMBA + 2,4 D DMA per acre per application)

Preharvest

- Limited to 1 application per crop cycle
- Maximum application rate of 0 5 lb ae 2 4 D per acre per application (1 4 pints LIBERTY DICAMBA + 2 4 D DMA per acre per application)

EARLY SEASON APPLICATION

Apply 0.5.1 pint of LIBERTY DICAMBA + 2,4 D DMA per acre to wheat unless using one of the wheat specific programs below

Early season applications to spring seeded wheat must be made after tillering and before wheat reaches the 6 leaf stage

Early season applications to fall seeded wheat must be made after tillering and prior to the jointing stage

Care should be taken in staging early developing wheat varieties such as TAM 107 Madison or Wakefield to be certain that the application occurs prior to the jointing stage

SPECIFIC USE PROGRAMS FOR FALL SEEDED WHEAT ONLY

Up to 1 33 pints of LIBERTY DICAMBA + 2,4 D DMA per acre may be applied on fall seeded wheat after the wheat begins to tiller for suppression of perennial weeds such as field bindweed. Applications may be made in the fall following a frost but before a killing freeze. Periods of extended stress such as cold and wet weather may enhance the possibility of crop injury. For fall applications only do not use if the potential for crop injury is not acceptable.

PREHARVEST APPLICATIONS

LIBERTY DICAMBA + 2,4 D DMA can be used to control weeds that may interfere with harvest of wheat. Apply up to 1.4 pints of LIBERTY DICAMBA + 2,4 D DMA per acre as a broadcast or spot treatment to annual broadleaf weeds when wheat is in the hard dough stage and the green color is gone from the nodes (joints) of the stem. Best results will be obtained if application can be made when weeds are actively growing but before weeds canopy

A waiting interval of 14 days is required before harvest

Do not use preharvest treated wheat for seed unless a germination test is performed on the seed with an acceptable result of 95% germination or better

For control of additional broadleaf weeds or grasses LIBERTY DICAMBA + 2,4 D DMA may be tank mixed with other herbicides such as Ally or Gly StarTM Plus that are registered for preharvest use in wheat

Preharvest use of LIBERTY DICAMBA + 2,4 D DMA is not registered for use in California

Table 6 Wheat Tank Mixes

Tank Mıx Partner	Rate Per Acre
Aım™	0 3 ounce
Ally®	0 05 0 1 ounce
Amber®	0 14 0 28 ounce
Bronate®	0 75 1 5 pints
Buctril®	1 1 5 pints
Canvas [®]	0 2 0 4 ounce
Curtail™	2 2 67 pints
Dakota® 2	16 fluid ounces
Express®	0 083 0 167 ounce ¹
Finesse ^O	0 167 0 33 ounce ¹
Glean®	0 167 ounce ¹
Harmony® Extra	0 167 0 33 ounce ¹
Karmex ^{®3}	0 5 1 5 pounds
2 4 D amine	4 20 fluid ounces4
Metribuzin³ (Sencor® Lexone®)	0 25 0 375 pounds a i
Peak®	0 25 0 38 ounce
Stinger™	4 5 33 fluid ounces
Tiller® 2	1 1 7 pints



Do not use low rates of sulfonylurea herbicide such as Ally® Amber® Canvas® Express® Finesse® Glean® Harmony® Extra and Peak® on more mature weeds or on dense vegetative growth

- ² Do not use **LIBERTY DICAMBA + 2,4 D DMA** as a tank mix treatment with Dakota or Tiller on Durum wheat Do not tank mix with Tiller if wild oat is the larger weed
- ³ Tank mixes with Karmex and metribuzin are for use in fall seeded wheat only
- ⁴ LIBERTY DICAMBA + 2,4 D DMA contains 0 36 pounds acid equivalent of 2 4 D per pint. When tank mixing with 2 4 D do not exceed a combined total of 1 0 pound acid equivalent per acre of 2 4 D and do not exceed 0 5 pounds acid equivalent of 2 4 D unless injury to wheat is acceptable.

Between Crop Applications/Fallow Systems, Conservation Reserve Programs, and General Farmstead

These uses are considered Food/Feed Crops when harvested grazed or foraged Consult section on **General Tank Mixing Information** for adjuvant restrictions and section on **Additives** for specific use directions

VII NON FOOD/FEED USE (LAND NOT HARVESTED, GRAZED OR FORAGED) - SPECIFIC INFORMATION

Between Crop Applications

PREPLANT DIRECTIONS (POSTHARVEST, FALLOW, CROP STUBBLE, SET ASIDE) FOR BROADLEAF WEED CONTROL

LIBERTY DICAMBA + 2,4 D DMA can be applied postharvest in the fall spring or summer during the fallow period or to crop stubble/set aside acres. Apply to weeds after crop harvest (postharvest) and before a killing frost or in the fallow cropland or crop stubble the following spring or summer.

See RESTRICTIONS AND LIMITATIONS for the recommended interval between application and planting to prevent crop injury

Rates and Timings

Apply 0 5 5 5 pints of LIBERTY DICAMBA + 2,4 D DMA per acre Refer to Table 1 to determine use rates for specific targeted weed species Retreatments may be made as needed however do not exceed a total of 8 pints of LIBERTY DICAMBA + 2,4 D DMA per treated acre during a growing season. For best performance, apply LIBERTY DICAMBA + 2,4 D DMA when annual weeds are less than 6 tall, when biennial weeds are in the rosette stage and to perennial weed regrowth in late summer or fall following a mowing or tillage treatment. The most effective control of upright perennial broadleaf weeds such as Canada thistile and Jerusalem artichoke occurs if LIBERTY DICAMBA + 2,4 D DMA is applied when the majority of weeds have at least 4 6 of regrowth or for weeds such as field bindweed and hedge bindweed that are in or beyond the full bloom stage.

Avoid disturbing treated areas following application. Treatments may not kill weeds that develop from seed or underground plant parts such as rhizomes or bulblets, after the effective period for **LIBERTY DICAMBA + 2,4 D DMA**. For seedling control, a follow up program or other cultural practices could be instituted.

Between Crop Tank Mixes

In tank mixes with one or more of the following herbicides apply 0 5 2 pints of LIBERTY DICAMBA + 2 4 D DMA per acre for control of annual weeds or 2 8 pints of LIBERTY DICAMBA + 2,4 D DMA per acre for control of biennial and perennial weeds

Aım™ Kerb™ Cyclone® Ally® Distinct® Landmaster® BW Amber® Fallowmaster® Paramount® Atrazine Finesse® Sencor® Bladex® Glyphosate Tordon™ 22K Curtail™ Gramoxone® Extra Touchdown® 24 D

Conservation Reserve Programs and General Farmstead

LIBERTY DICAMBA + 2,4 D DMA is recommended for use for Conservation Reserve Programs general farmstead (non cropland only) weed and brush control or use in State Recognized Noxious Weed areas (non cropland areas)

Refer to **Tables 1 and 2** for rate selection based on targeted weed or brush species. Some weed species will require tank mixec for adequate control

Rates above 4 pints of LIBERTY DICAMBA + 2,4 D DMA per acre are for spot treatments only

Retreatments may be made as needed however do not exceed a total of 5 5 pints of LIBERTY DICAMBA + 2,4°D DIAA per treated acred during a growing season

Farmstead and Fence row Treatment Application Instructions

LIBERTY DICAMBA + 2,4 D DMA may be applied using water or oil and water emulsions in spot application to control undesirable vegetation using handgun or similar types of application equipment. In addition to weed species listed in Tables 1 and 2, these treatments may be used to control or suppress woody plant species listed in Table 6.

To prepare soil and water emulsions mix in the order and proportions indicated below

The solution should remain milky colored without an oily layer on top when under agitation. If an oily layer forms, increase the amount of emulsifier or change to a more effective emulsifier.

Do not exceed 40 gallons of spray solution per treated acre per application. Forty gallons of spray solution contains 1.0 pound acid equivalent of dicamba and 2.87 pounds acid equivalent of 2.4 D. Spray plants to wet. Do not allow this spray mix to contact desirable vegetation.

To control brush briars and weeds along fence rows surrounding pasture and ranch lands and fallow fields use a tank mix of 2.5% **LIBERTY DICAMBA + 2,4 D DMA** 87.5% water 10% diesel oil and sufficient emulsifier (to mix the diesel and emulsifier). The diesel oil in this tank mix will

damage or kill desirable grasses and should not be used in pastures or where damage to desirable species cannot be tolerated

- 1) Water Begin by agitating a thoroughly clean sprayer tank with the desired quantity of clean water. Maintain constant agitation during complete mixing procedure
- 2) Emulsifier Add 0 5% volume to volume of water
- 3) LIBERTY DICAMBA + 2,4 D DMA add 2 5 gallons per 100 gallons of total intended solution
- 4) Diesel Oil Add 10 gallons per 100 gallons of total intended solution

Maintain constant agitation during application. Under good agitation, the spray solution should be milky white with no oil layer on top. If oil layer forms, increase the amount of emulsifier or change to a more effective emulsifier.

FOR SPRAYING FOLIAR APPLICATIONS

- 1 Spray when leaves have reached full size but have not hardened due to drought or maturity
- 2 Spray individual plants to wet with handgun
- For larger stems (up to 3 in diameter) and hard to control species direct spray stream to base of stems to wet the stem at soil surface in addition to wetting the foliage
- 4 Do not apply under drip line of desirable trees or adjacent to desirable vegetation

FOR DORMANT BASAL APPLICATIONS

- 1 Increase diesel oil content to 15% or 15 gallons of diesel oil per 100 gallons of total solution
- 2 Spray in late winter and early spring before plants break dormancy
- 3 Spray the bottom 24 of the target stem to wet on all sides
- For larger stems (up to 3 in diameter) and hard to kill species direct the spray solution to the base of target stems to wet the soil at the stem/soil junction in addition to wetting the stem
- 5 Do not apply under drip line of desirable trees or adjacent to desirable vegetation

FOR CUT SURFACE TREATMENTS

Apply LIBERTY DICAMBA + 2,4 D DMA in an undiluted state as a cut surface treatment to control unwanted trees and prevent sprouts of cut trees

- Frill or Girdle Treatments Make a continuous cut or a series of overlapping cuts using an axe to girdle tree trunk Spray or paint the cut surface with LIBERTY DICAMBA + 2 4 D DMA
- Stump Treatments Spray or paint freshly cut surface with LIBERTY DICAMBA + 2,4 D DMA The cambium layer (the area adjacent to the bark) should be thoroughly wet Treat stumps within 6 hours after cutting

Table 7 The following list of trees and vines can be controlled on farmsteads and fencerows as foliar basal or cut surface treatments

Alder	Dewberry	Huisache	Redcedar Eastern
Ash	Dogwood	Ivy Poison Kudzu	Rose McCartney
Aspen	Elm	Locust Black	Rose Multiflora
Basswood	Grape	Maple	Sagebrush Fringe
Beech	Greenbriar	Mesquite	
Blackberry Blackgum	Hawthorn (Thornapple) Hemlock	Oak Oak Poison	્રSૃassafras Spruçe ' Sun′ac , Swe≏tgum ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '
Cedar Cherry	Hickory Honeylocust	Persimmon Eastern	Sycamore Cocco
Chinquapin	Honeysuckle	Pine	دد\\'اا'o\\
Cottonwood	Hornbeam	Plum Sand (Wild Plum)	Witchhazel
Creosotebush	Huckleberry	Poplar Rabbitbrush	Yaupon Yucca

Weeds listed in this label

Common Name	Scientific Name
ANNUALS	
Beebalm Spotted	Monarda punctafa
Broomweed Common	Gutierezia dracuncutoides
Buckwheat Wild	Polygonum convulvulus
Buffalobur	Solanum rostratum
Burdock	Arctium spp
Buttercup Corn	Rannculus arvensis
Chickweed Common	Stellarıa media
Cockle Corn	Agrostemma githago
Cocklebur Common	Xanthium strumarium
Coreopsis Plains	Coreopsis tinctoria

Croton Woolly	Croton capitatus
Devil s claw	Proboscidea luisianica
Dogfennel (Cypressweed)	Eupatorium capillifolium
Eveningprimrose Cutleaf	Oenothera lacınata
Falseflax Smallseed	Linum catharticum
Fleabane Annual	Erigeron annuus
Flixweed	Descurainia sophia
Henbit	Lamium amplexicaule
Knotweed Prostrate	Polygonum aviculare
Kochia	Kochia scoparia
Lambsquarters Common	Chenopodium album
Lettuce Prickly	Lactuca sernola
Mallow Common	Maalva neglecta
Moringglory Ivyleaf	Ipomea hederacea
Tall	ipomea purupurea
Mustard Annual	Brassica spp
Tansy	Descurainia pinnata
Nightshade	Solamum nıgrum
Pennycress Field	Thlaspi arvense
Pepperweed Virginia	Lepidium virginicum
Pigweed Prostrate	Amaranthus blitoides
Redroot	Amaranthus retroflexus
Smooth	Amaranthus hybridus
Tumble	Amaranthus albus
Poorjoe	Diodia teres
Purslane Common	Portulaca oleracea
Ragweed Common	Ambrosia ariemisiifolia
Lance leaf	Ambrosia bidentata
Western	Ambrosia psilostachya
Sedge	Cyperus compressus
Shepherdspurse	Capsella bursa pastoris
Smartweed Pennsylvania	Polygonum pensylvanıcum
Sneezeweed Bitter	Helenıum amurum
Sowthistle Annual	Sonchus oleraceus
Sunflower Common (wild)	Helianthus annuus
Thistle Russian	Salsola iberica
Velvetleaf	Abutılon teophrastı

Common Name	Scientific Name
BIENNALS AND PERENNIALS	
Bindweed field	Convolvulus arvensis
Bittercress	Cardamine spp
Buckeye	Aesculus spp
Bullnettle	Cnidosculus stimulosus
Chicory	Cichorium intybus
Clover Hop	Trıfoleum aureum
Dandelion	Taraxacum officinale
Dock Curly	Rumex crispus
Elderberry	Sambucus canadensis
Goldenrod Missouri	Solidago missouriensis
Goldenweed Common	Isocp a cprpmopifolia
Groundset	Senecio vulgaris
Honeysuckle Hairy	Lonicera
Horsenettie	Solanum caroliniense
Ivy Poison	Rhus radicans
Knapweed Black	Centaurea nigra
Russian	Centaurea repens
Spotted	Centaurea maculosus
Marshelder	Ina annua
Mesquite	Prosopis juliflora



Milkweed

Nightshade Silverleaf

Persimmon Eastern Rabbitbrush

Ragwort Tansy Redvine

Sagebrush Fringed Smartweed Swamp Sorrel Red (Sheep Sorrel) Sowthistle Perennial

Spurge Leafy Starthistle Yellow Tallow Tree Chinese

Thistle Bull Canada Musk Plumeless

Vetch Yankeeweed Asciepius

Solanum elaeagnıfolium Diospyros virginiana

Chrysanthemus pulchellus

Senecio jacobia
Brunnichia ovata
Artemisia frigida
Polygonum coccineum
Rumex acetosella

Rumex acetosella Sonchus arvensis Euphorbia esula Centauria solstitialis Sapium sebiferum Cirsium vulgare

Cirsium arvense Carduus nutans Carduus acanthoides

Vicia spp

Eupatorium compositifolium

Food/Feed Crop Uses

This product can be used on the following Conservation Reserve Program Land Fallow Systems (Between Crop Application) General Farmstead

> Grain Sorghum Grass (Hay or Silage)

Pastures Rangeland

Sugarcane Wheat

Look inside for complete Restrictions and Limitations and Application Instructions

Note These crops are considered Food/Feed crops only when harvested grazed or foraged Otherwise they are considered non Food/Feed uses

CONDITION OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once unopened and the purchase price will be refunded.

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