

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

OFFICE OF PREVENTION. PESTICIDES AND TOXIC SUBSTANCES

JAN 7 2008

Morris Gaskins Registrations Manager Albaugh, Inc. 1525 NE 36th Street Ankeny, IA 50021



SUBJECT:

Applications for Pesticide Notification - Requests for Containers/Containment Labeling

under PR Notice 2007-4

 Brox 2E
 EPA Reg. No. 42750-48

 Brox-M
 EPA Reg. No. 42750-52

 Butyrac 175
 EPA Reg. No. 42750-39

 Butyrac 200
 EPA Reg. No. 42750-38

 Fallow Star
 EPA Reg. No. 42750-63

 Landmaster BW
 EPA Reg. No. 42750-62

Applications Dated November 19, 2007

Dear Mr. Gaskins:

The Agency is in receipt of your Applications for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 for the above products. The Registration Division (RD) has conducted a review of these requests for their applicability under PRN 2007-4 and finds that the actions requested fall within the scope of PRN 2007-4. The labels that were submitted with the applications have been stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR part 156.140(a)(4) requires that a batch code, lot number, or other code to identify the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification, per PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please call me directly at 703-305-6249 or Nicole Williams of my staff at 703-308-5551.

Sincerely,

Notifications & Minor Formulations Team Leader

Registration Division (7505P)

Office of Pesticide Programs

3/19

Form Approved. OMB No. 2070-0060. Please read instructions on reverse before completing form. Approval expire **OPP Identifier Number** Registration United States **Environmental Protection Agency Amendment** Washington, DC 20460 Other Application for Pesticide - Section I 1. Company/Product Number. 2. EPA Product Manager 3. Proposed Classification 42750-62 J. Miller None Restricted PM# 4. Company/Product (Name) Landmaster BW 23 5. Name and Address of Applicant (Include ZIP Code) 6. Expedited Reveiw. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in complete the complete th Albaugh Inc. P.O. Box 2127 EPA Reg. No. Valdosta, GA 31604-2127 Check if this is a new address **Product Name** Section - II Final printed labels in repsonse to Amendment - Explain below. Agency letter dated Resubmission in response to Agency letter dated ____ "Me Too" Application. Other - Explain below. Notification - Explain below. Explanation: Use additional page(s) if necessary. (For section I and Section II.) Notification of label change per PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA. Section - III 1. Material This Product Will Be Packaged In: Unit Packaging Water Soluble Packaging 2. Type of Container Child-Resistant Packaging-Metal YAS Yes Yes **Plastic** No No No Glass Paper If "Yes" If "Yes" No. per No. per * Certification must Package wgt container Other (Specify) Unit Packaging wgt. container be submitted 3. Location of Net Contents Information 5. Location of Label Directions 4. Size(s) Retail Container 2.5, 30, 250 bulk 6. Manner in Which Label is Affixed to Product Lithograph Paper glued Stenciled Section - IV 1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.) Title Telephone No. (Include Area Code) Name 229-244-3288 Morris Gaskins Registrations Manager 6. Date Application Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. Received I acknowledge that any knowlinglly false or misleading statement may be punishable by fine or imprisonment or (Stamped) both under applicable law. 3. Title 2. Signature Registrations Manager 4. Typed Name 5. Date November 19, 2007 Morris Gaskins

JAN 0 7-2008

NOTIFICATION

400 T 2000

Albaugh, Inc. LANDMASTER® BW

AVOID CONTACT WITH FOLIAGE OF CROP OR OTHER DESIRABLE VEGETATION SINCE SEVERE INJURY OR DESTRUCTION MAY RESULT.

Read the "CONDITIONS OF SALE AND WARRANTY" before buying or using. If terms are not acceptable, return at once unopened.

ACTIVE INGREDIENTS*:

Glyphosate (N-(phosphonomethyl))glycine, in the form of its isopropylamine s	salt	 12.9%
2,4-D, 2,4-dichlorophenoxyacetic acid, in the form of its isopropylamine salt		 20.6%
OTHER INGREDIENTS:		 66.5%
	TOTAL	100.0%

*Contains 144 grams per litre or 1.2 lbs per U.S. gallon of the active ingredient, glyphosate, in the form of its isopropylamine salt and 227 grams per liter or 1.9 lbs per U.S. gallon of the active ingredient, 2,4-D, in the form of its isopropylamine salt. Equivalent to 108 grams per litre or 0.9 lb per U.S. gallon of the acid, glyphosate, and 182 grams per litre or 1.5 lbs per U.S. gallon of the acid 2,4-D.

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 eye. Call a poison control center or doctor for treatment advice
SWALLOWED:	 Call a poison control center or doctor immediately for treatment advice. Have 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 person.
IF ON SKIN OR CLOTHING:	 Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
HOT LINE NUM	BER
	ct container or label with you when calling a poison control center or doctor, or ent. You may also contact 1-800-424-9300 for emergency medical treatment

For chemical spill, leak, fire, or exposure, call CHEMTREC (800) 424-9300

EPA Reg. No. 42750-62

EPA Est. No.

NET CONTENTS

Gals. (___Liters)

Manufactured by: Albaugh, Inc. Ankeny, IA 50021

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Causes moderate eye irritation. Harmful if swallowed. Harmful if absorbed through skin. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling.

PERSONAL PROTECTIVE EQUIPMENT: (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category A on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear:

- 1. long-sleeved shirt and long pants,
- 2. chemical-resistant gloves Category A, such as butyl rubber ≥ 14 mils, or natural rubber ≥ 14 mils, or neoprene rubber > 14 mils or nitrile rubber > 14 mils, and
- 3. shoes plus socks.

CONTAINERS GREATER THAN ONE GALLON BUT LESS THAN FIVE 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.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. After each day of use, clothing or PPE must not be reused until it has been cleaned.

ENGINEERING CONTROLS STATEMENTS:

CONTAINERS FIVE GALLONS OR MORE: A mechanical system (probe and pump) 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.

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

USER SAFETY RECOMMENDATIONS

Users should:

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

ENVIRONMENTAL HAZARDS

Drift or runoff may adversely affect nontarget plants.

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters and rinsate.

Most cases of ground water 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 ground water supplies. Use of closed systems for mixing or transferring this pesticide

will reduce the possibility of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent ground water contamination.

PHYSICAL OR CHEMICAL HAZARDS

Spray solutions of this product should be mixed, stored and applied only in stainless steel, aluminum, fiberglass, plastic and plastic-linéd steel containers.

DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

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 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, are:

- coveralls.
- 2. chemical-resistant gloves Category A, such as butyl rubber ≥ 14 mils, or natural rubber ≥ 14 mils, or neoprene rubber > 14 mils or nitrile rubber > 14 mils, and
- 3. shoes plus socks.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Do not store near fertilizers, seeds, insecticides or fungicides.

PESTICIDE STORAGE:

STORE ABOVE 40°F to keep product in solution. If crystals form, place in a warm room (72°F), allow the product to reach room temperature and roll or shake or recirculate in mini-bulk or bulk container until crystals have dissolved. Keep container closed to prevent spills and contamination.

PESTICIDE DISPOSAL:

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixtures, or rinsate is a violation of Federal Law and may contaminate groundwater. If these wastes cannot be disposed of by the 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.

Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.

CONTAINER DISPOSAL:

Plastic containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Refillable containers: Do not reuse this container except for refill in accordance with a valid Albaugh Repackaging or Toll Repackaging Agreement. If not refilled or returned to the authorized repackaging facility, triple rinse container, then 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.

Bulk Tanks: Triple rinse (or equivalent) and wash with appropriate cleaners before reusing.

Non-refillable containers (1, 2.5, 30 & 55 gallon): Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

(non-refillable <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 >5 gallons): Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ 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 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.

(All size non-refillable) Pressure rinse as follows: 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 container (250 gallon & 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.

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

GENERAL INFORMATION

Read the entire label before using this product.
Use only according to label instructions.

Landmaster® BW is a postemergence herbicide for control or suppression of emerged weeds in fallow and reduced tillage systems, pasture and rangeland, airports, dry canals, industrial plant sites, parking areas, parks, schools, storage areas, farmsteads, ditches, fencerows, roadside and highway rights-of-way, other public areas, and similar industrial and noncrop sites. Landmaster® BW can also be applied prior to planting or emergence of wheat, barley, corn, oats, rye or sorghum (grain or forage), through hooded sprayers between rows of corn, as a spot treatment in corn, sorghum, forage grasses or forage legumes, as a preharvest treatment in wheat, and as a postharvest treatment following grain harvest.

Do not harvest or feed treated vegetation for 8 weeks after application. Following spot treatment in forage grasses or legumes, allow 30 days before harvesting or grazing domestic livestock.

This product enters the plant through the foliage and moves throughout the plant. Visual effects of control are a gradual wilting or yellowing of the plant, which advances to complete browning of above-ground growth and deterioration of affected underground plant parts. Visible symptoms will usually develop within 2 to 4 days after application, but may not occur for 7 or more days. Extremely cool or cloudy weather following treatment may slow activity of this product and delay the visual effects of control.

APPLICATION PRECAUTIONS

- Do not plant any crop other than wheat, barley, corn, oats, rye or sorghum (grain or forage) for 3 months after treatment or until this product has disappeared from the soil.
- Applications of this product after planting and prior to crop emergence may cause crop injury if rainfall or environmental conditions delaying crop emergence are experienced.
- This product is recommended for control of emerged weeds prior to establishment of labeled crops. Large
 amounts of green or decaying vegetation left standing or incorporated into the seedbed may enhance the
 development of disease in newly planted crops. This may result in poor emergence and/or stands, especially
 under cool and/or wet conditions.
- Spraying early to control young weeds before dense stands develop or light cultivation to assist weed decay
 will favor preparation of suitable seedbeds.
- In reduced tillage and no-till systems, ensure good seed to soil contact and proper seeding depth.
- Do not feed or forage treated vegetation from treated areas for 8 weeks after application.
- DO NOT APPLY IN THE VICINITY OF 2,4-D SENSITIVE CROPS SUCH AS COTTON, GRAPES, TOMATOES AND OTHER DESIRABLE VEGETATION.
- Applications should be made only when there is no hazard from spray drift, since very small quantities of spray, which may not be visible, may severely injure susceptible crops or desirable vegetation.
- The likelihood of injury occurring to adjacent crops from the use of this product is greatest when winds are gusty or in excess of 5 miles per hour or when other conditions including lesser wind velocities will favor spray drift.
- Movement of this product on soil particles during windstorms may cause damage to susceptible plants that are contacted. This hazard is reduced if rainfall occurs shortly after application.
- Buyer and all users are responsible for all loss or damage in connection with the use or handling of mixtures
 of this herbicide or other materials that are not expressly recommended in this labeling. Mixing this product
 with herbicides or other materials not recommended on this label may result in reduced performance. Use of
 this product in any manner not consistent with this label may result in injury to persons, animals or crops, or
 other unintended consequences.

Landmaster® BW is subject to all state and county regulations for 2,4-D amine.

TIMING OF APPLICATION

This product should be applied postemergence to vigorously growing weeds when they have reached the recommended size given in the "RECOMMENDED RATES AND WEEDS CONTROLLED" section of this label. Application should be delayed until maximum emergence of the target weeds, but before weeds exceed the maximum size recommended. For annual weeds, allow 1 day after treatment before tillage. For field bindweed, allow at least 7 days after treatment before tillage.

Reduced control may result if treatments are made during poor growing conditions such as drought stress, disease or insect damage or if weeds have been mowed, grazed or cut. Heavy dust on foliage or an overstory canopy covering targeted weeds may also reduce control.

Rainfall or irrigation occurring within 6 hours after application may reduce effectiveness. Heavy rainfall or irrigation within 2 hours after application will wash this product off the foliage and a repeat treatment will be required.

RECOMMENDED RATES AND WEEDS CONTROLLED

For best results, apply this product after most weed seeds have germinated but before seedhead formation in grasses or flower bud formation in broadleaves.

When applied as directed, this product will provide control or suppression of the grass and broadleaf weed species listed below. Rates recommended are for maximum weed height at treatment time.

	LANDMASTER® BW		
PERRENIAL WEED SPECIES	RATE PER ACRE	LENGTH OF	
	(FLUID OUNCES)	VINES/TREATMENT HEIGHT	
Bindweed, field**	54 oz	6" to 18"	
Convolvulus arvensis	(suppression only)		
Spurge, leafy	54 oz	Post bloom	
·	(suppression only)		

LANDMASTER® BW		
ANNUAL WEED SPECIES	RATE PER ACRE	MAXIMUM HEIGHT
Foxtail, green	27. oz	12"
Setaria viridis		
Barley	40 oz	6"
Hordeum vulgare		
Brome, downy*		
Bromus tectorum		
Cheat*		
Bromus secalinus	, e e	
Foxtail		
Setaria spp.		
Kochia*		
Kochia scoparia		
Lettuce, prickly*		
Lactuca serriola		
Oats, wild		
Avena fatua	,	′
Puncturevine		
Tribulus terrestris		
Purslane, common	•	
Portulaco oleracea	·	
Cocklebur	40 oz	12"
Xanthium strumarium	÷	
Lambsquarters		
Chenopodium album	•	· ·
Mustard, tansy	•	
Descurainia pinnata		
Mustard, tumble		
Sisymbrium altissimum	'	
Pigweed, redroot		
Amaranthus retroflexus	·	
Pigweed, smooth		
Amaranthus hybridus	•	·
Rye		
Secale cereale		
Stinkgrass	,	
Eragrostis cilianensis	İ	
Thistle, Russian	ĺ	
Salsola kali		
Wheat		•
Triticum aestivum		
Barnyardgrass	54 oz	6"
Echinocha crus-galli	- · · 	-

	LANDMASTER® BW		
ANNUAL WEED SPECIES	RATE PER ACRE	MAXIMUM HEIGHT	
Buffalobur			
Solanum rostratum			
Goatgrass			
Aegilops cylindrical	1		
Mustard, blue	•		
Chorispora tenella			
Panicum, fall	1		
Panicum dichotomiflorum			
Witchgrass			
Panicum capillare		<u> </u>	
Oats, wild	54 oz	12"	
Aven fatua			

*For improved control in no-till systems or heavy infestations or overwintered stands, use 54 fluid ounces. For best results on light kochia infestations, treat after the plant has passed through the woolly stage of growth and is 3 to 6 inches in height. When treating medium to heavy infestations or plants that are in the woolly stage (1 to 3 inches in height), add 2 fluid ounces of Albaugh Dicamba DMA Salt or Banvel® to the recommended rate of Landmaster® BW. Refer to the Albaugh Dicamba DMA Salt or Banvel® label for planting, cropping and other restrictions. Follow all precautions on the Albaugh Dicamba DMA Salt or Banvel® labels.

**Landmaster® BW may also be used as a 1 percent solution on a spray-to-wet basis for annual weed control and field bindweed suppression. Spray coverage should be uniform and complete. Do not spray to the point of runoff. Prepare the desired volume of spray by mixing the amount of Landmaster® BW in clean water as shown in the following table:

SPRAY SOLUTIONS

0.700.000.000	
DESIRED VOLUME	AMOUNT OF LANDMASTER® BW
1 gallon	1 1/3 fluid ounces
25 gallons	1 quart
100 gallons	1 gallon

2 tablespoons = 1 fluid ounce

SPOT TREATMENT

Applications in growing crops must be made prior to heading of small grains and grain sorghum (milo) and silking of corn.

For applications in forage grasses and legumes, apply in areas where the movement of domestic livestock can be controlled. No more than one-tenth of any acre should be treated at one time. Further applications may be made in the same area at 30-day intervals. Remove domestic livestock before application and wait 30 days after application before grazing livestock or harvesting.

ECOFARMING SYSTEMS

The Ecofarming System consists of the following rotation: winter wheat, corn/sorghum, ecofallow.

Use the following tank mixtures for control of emerged annual weeds before planting corn or sorghum in the Ecofarming System.

Landmaster® BW at 54 to 64 fluid ounces per acre

Plus

ATRAZINE at 0.75 to 1 pound active ingredient per acre

Plus

Alachlor (LASSO®) at 2.5 to 3 quarts per acre or other preemergent herbicide labeled for these uses (follow label directions for recommended application rates).

Follow all label directions.

The above tank mixtures should be applied in 28-0-0 or 32-0-0 liquid fertilizer carrier at 20 to 30 gallons per acre. The liquid fertilizer may be diluted with water to achieve the desired carrier volume.

WEEDS CONTROLLED - The following weeds, up to a maximum height of 4 inches, will be controlled:

Brome, downy Bromus tectorum Cheat Bromus secalinus Foxtail, green Setaria viridis Foxtail, yellow Setaria lutescens Kochia* Kochia scoparia Lettuce, prickly Lactuca serriola Pigweed, redroot Amaranthus retroflexus Thistle, Russian Salsola kali Wheat, volunteer Triticum aestivum

*For improved control of kochia, add 4 fluid ounces per acre (0.125 pound a.i. per acre) of Albaugh Dicamba DMA Salt or Banvel® to the above tank mixture.

Risk of crop injury from 2,4-D, Albaugh Dicamba DMA Salt or Banvel® can be reduced by applying this treatment 7 to 14 days before planting.

Refer to the label booklet for Lasso® herbicide for preemergence weed control achieved by this tank mixture.

Refer to the specific product labels for crop rotation restrictions and cautionary statements for all products in these mixtures.

PREHARVEST APPLICATIONS TO WHEAT

This product provides weed control when applied prior to harvest of wheat. Apply after the hard-dough stage of grain (30% or less grain moisture) and at least 7 days prior to harvest.

This product may be applied using either aerial or ground spray equipment. See the "APPLICATION EQUIPMENT AND TECHNIQUES" section for instructions for ground and aerial applications.

DO NOT APPLY MORE THAN 84 FLUID OUNCES PER ACRE OF THIS PRODUCT FOR PREHARVEST APPLICATIONS IN WHEAT.

Do not feed treated straw to livestock.

Do not permit dairy animals or meat animals being finished for slaughter to forage treated grain fields within 2 weeks after treatment.

NOTE: It is not recommended that wheat grown for seed be treated because a reduction in germination or vigor may occur.

POSTHARVEST APPLICATIONS FOLLOWING GRAIN HARVEST

This product will provide control of weeds following grain harvest. Weeds should be allowed to regrow after damage incurred during harvest operations and to recover from environmental stress before application of this product. Weeds should be treated prior to the heading stage of annual grasses and before broadleaf weeds exceed 24 inches in height. Ammonium sulfate will improve performance on annual weeds under stress conditions.

Weeds controlled with 40 fluid ounces per acre include downy brome, green foxtail, stinkgrass and volunteer wheat.

Weeds controlled with 54 fluid ounces per acre include field bindweed, kochia, lambsquarters, mustard, pigweed and Russian thistle.

Weeds controlled with 64 fluid ounces per acre include barnyardgrass, sandbur, witchgrass, yellow foxtail and prickly lettuce.

FARMSTEADS, DITCHES AND FENCEROWS

When applied as directed, this product will control downy brome, bulbous bluegrass, kochia, tumble mustard, tansy mustard and prickly lettuce, and provide suppression of crested wheatgrass, smooth bromegrass and field bindweed.

Use a 1 percent solution of this product for spray-to-wet, spot-spraying applications. Spray coverage should be uniform and complete. Do not spray to the point of runoff. Treat when weeds are small, actively growing and free of dust. Use 108 fluid ounces of this product in 5 to 10 gallons of water per acre for broadcast boom applications.

ROADSIDE AND HIGHWAY RIGHTS-OF-WAY

When applied as directed, Landmaster® BW alone and tank mixtures of Landmaster® BW plus Velpar® and/or Oust® will reduce vegetative growth of bahiagrass turf as well as control or partially control the following annual and perennial weeds (Please refer to the "RECOMMENDED RATES AND WEEDS CONTROLLED" section of this label for additional information):

Bindweed, field Convolvulus arvensis

Spurge, leafy

Foxtail, green Setaria viridis

Cocklebur -

Xanthium strumarium

Lambsquarters

Chenopodium album

Mustard, tansv

Descurainia pinnata

Mustard, tumble

Sisymbrium altissimum

Pigweed, redroot

Amaranthus retroflexus

Piaweed, smooth

Amaranthus hybridus

Rye

Secale cereale

Stinkgrass

Eragrostis cilianensis

Brome, downy

Bromus tectorum

Cheat

Bromus secalinus

Foxtail

Setaria spp.

Kochia

Kochia scoparia

Lettuce, prickly

Lactuca serriola

Oats, wild

Avena fatua

Puncturevine

Tribulus terrestris

Purslane, common

Portulaco oleracea

Barnyardgrass

Echinocha crus-galli

Buffalobur

Solanum rostratum

Goatgrass

Aegilops cylindrical

Thistle, Russian
Salsola kali
Wheat
Triticum aestivum
Oats, wild
Aven fatua
Barley
Hordeum vulgare

Mustard, blue
Chorispora tenella
Panicum, fall
Panicum dichotomiflorum
Witchgrass
Panicum capillare

Make applications to bahiagrass prior to seedhead emergence or after the bahiagrass has been mowed to a uniform height of 4 to 5 inches. For best results, make applications when both bahiagrass and weeds are healthy and actively growing.

Apply 16 to 32 fluid ounces of Landmaster® BW as a broadcast spray in 10 to 25 gallons of spray solution per acre.

Or

Apply 16 to 32 fluid ounces of Landmaster® BW plus 8 to 16 fluid ounces (1/2 to 1 pint) of Velpar® plus ¼ ounce of Oust® as a broadcast spray in 10 to 25 gallons of spray solution per acre.

Or

Apply 16 to 32 fluid ounces of Landmaster® BW plus 8 to 16 fluid ounces (1/2 to 1 pint) of Velpar® as a broadcast spray in 10 to 25 gallons of spray solution per acre.

Or

Apply 16 to 32 fluid ounces of Landmaster® BW plus ¼ to ½ ounce of Oust® as a broadcast spray in 10 to 25 gallons of spray solution.

The use of surfactant with this product is not recommended.

Read and carefully observe the label claims, precautionary statements and all information on the labels of each product used in this tank mixture. Use according to the most restrictive label directions for each product in the mixture.

INDUSTRIAL AREAS, AIRPORTS, DRY CANALS, PLANT SITES, PARKING AREAS, PARKS, SCHOOLS, STORAGE AREAS, OTHER PUBLIC AREAS AND NONCROP SITES

This product provides weed control when used as directed under the "RECOMMENDED RATES AND WEEDS CONTROLLED" section of this label, when applied to industrial areas, airports, dry canals, plant sites, parking areas, parks, schools, storage areas, other public areas, and noncrop sites.

This product is also recommended for musk thistle control in industrial areas. Best control of musk thistle is obtained when applications are made while plants are in the rosette stage of growth. Applications should be made in the spring prior to bolting or in the fall prior to soil freeze-up. Partial control or suppression may be obtained with treatments made from bolting through flowering. For best results, plants should be actively growing and not under stress and free of dust layers on leaves.

For broadcast applications, apply 16 to 32 fluid ounces per acre of this product alone or as a tank mixture with either 4 to 8 fluid ounces of Albaugh Dicamba DMA Salt or Banvel[®], 4 to 8 ounces of Tordon[™] 22K or 0.1 to 0.3 ounces of Escort[®].

For spray-to-wet applications, apply this product as a 1 to 2 percent solution alone or as a tank mixture with ½ to 1 percent Albaugh Dicamba DMA Salt or Banvel[®], ½ to 1 percent Tordon[™] 22K or with Escort[®] at a rate of 1 ounce of product per 100 gallons of spray solution.

Read and carefully observe the label directions, precautionary statements and all other information on the labels of each product used in tank mixtures.

PASTURE AND RANGELAND

This product is recommended for leafy spurge and musk thistle control in rangeland and pasture areas. It is also recommended for the control of those weeds listed in the "RECOMMENDED RATES AND WEEDS CONTROLLED" section of this label.

Do not graze lactating dairy animals on treated grass within 7 days after application. Animals being finished for slaughter that are grazing in the treated area within 30 days of treatment must be removed from the treated area 3 days before slaughter. Do not cut forage for hay within 30 days of application. When this product is used for spot treatments where less than 10 percent of the total grazed area will be treated, there is no grazing restriction.

Best control of leafy spurge is obtained when applications are made during the seed-set growth stage. This typically occurs in late June. Desirable grass species may be injured with this application. However, injury is usually temporary and normal growth resumes soon after application. Do not use this application on the same area for two consecutive years because grass injury will increase.

Apply 54 fluid ounces of this product per acre as a broadcast application in 3 to 10 gallons of water per acre.

Best control of musk thistle is obtained when applications are made while plants are in the rosette stage of growth. Applications should be made in the spring prior to bolting or in the fall prior to soil freeze-up. Partial control or suppression may be obtained with treatments made from bolting through flowering. For best results, plants should be actively growing and not under stress and free of dust layers on leaves.

For broadcast applications, apply 16 to 32 fluid ounces per acre of this product alone or as a tank mixture with either 4 to 8 fluid ounces of Albaugh Dicamba DMA Salt or Banvel[®], 4 to 8 ounces of Tordon[™] 22K or 0.1 to 0.3 ounces of Escort[®].

For spray-to-wet applications, apply this product as a 1 to 2 percent solution alone or as a tank mixture with ½ to 1 percent Albaugh Dicamba DMA Salt or Banvel[®], ½ to 1 percent Tordon™ 22K or with Escort[®] at a rate of 1 ounce of product per 100 gallons of spray solution.

When using tank mixtures, refer to the tank mix product label for grazing restrictions for that product. Follow the most restrictive label. Read and carefully observe the label directions, precautionary statements and all other information on the labels of each product used in these tank mixtures.

AID TO TILLAGE

This product, used in conjunction with preplant and conventional fallow tillage practices will provide control of downy brome, cheat, volunteer wheat, tansy mustard and foxtail. Apply 27 fluid ounces of this product in 3 to 10 gallons of water per acre to weeds that are actively growing. Treat when weeds are less than 6 inches in height. Application must be followed by conventional tillage practices before regrowth of the treated plant occurs. Allow at least 1 day after application before tillage.

AMMONIUM SULFATE

The addition of 1 to 2 percent dry ammonium sulfate by weight (or liquid equivalent) or 8.5 to 17 pounds per 100 gallons of water may increase the performance of Landmaster BW and Landmaster BW herbicide tank mixtures on annual weeds. The improvement in performance may be apparent where environmental stress is a concern. Low-quality ammonium sulfate may contain material that will not readily dissolve which could result in nozzle tip plugging. To determine quality, perform a jar test by adding 1/3 cup of ammonium sulfate to 1 gallon of water and agitate for 1 minute. If undissolved sediment is observed, predissolve the ammonium sulfate in water and filter prior to addition to the spray tank. If ammonium sulfate is added directly to the spray tank, add slowly with agitation. Adding too quickly may clog outlet line. ENSURE THAT AMMONIUM SULFATE IS COMPLETELY DISSOLVED IN THE SPRAY TANK BEFORE ADDING HERBICIDES. THOROUGHLY RINSE THE SPRAY SYSTEM WITH CLEAN WATER AFTER USE TO REDUCE CORROSION.

NOTE: Compatibility problems may occur at carrier volumes below 5 GPA.

APPLICATION EQUIPMENT

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

This product may be applied using either ground, aerial spray or hand-held equipment. It may also be applied between the rows of corn using hooded sprayers. Use extreme care to avoid misting or drifting of herbicide solution onto foliage, green stems or fruit of desirable crops, trees, or plants during both growing and dormant periods since even very small quantities of spray can cause severe plant injury.

GROUND APPLICATION: Apply recommended rates of this product in 3 to 10 gallons of water per acre as a broadcast spray. For optimum spray distribution and coverage, use flat fan or low volume flood nozzles. When using flood nozzles, space them no more than 40 inches apart and ensure double overlap of spray pattern. Refer to the manufacturer's recommendations for correct pressure and nozzle height above the target canopy. Avoid pressure and nozzles which produce fine droplets or mist.

Use appropriate marking devices to ensure uniform spray coverage and best results from Landmaster® BW herbicide.

HAND-HELD and HIGH-VOLUME EQUIPMENT (use coarse sprays only): Mix this product in clean water and apply to foliage of vegetation to be controlled. For applications made on a spray-to-wet basis, spray coverage should be uniform and complete. Do not spray to the point of runoff. Use a 1 percent solution for annual weed control and field bindweed suppression.

AERIAL APPLICATION: Apply the recommended rates of this product in 3 to 5 gallons of water per acre as a broadcast spray. DO NOT APPLY DURING INVERSION CONDITIONS, WHEN WINDS ARE GUSTY, OR WHEN OTHER CONDITIONS WILL FAVOR DRIFT. DRIFT MAY CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO WHICH TREATMENT WAS NOT INTENDED. TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION, APPROPRIATE BUFFER ZONES MUST BE MAINTAINED.

Coarse sprays are less likely to drift; therefore, do not use nozzles or nozzle configurations which dispense spray as fine spray droplets. Do not angle nozzles forward into the airstream and do not increase spray volume by increasing nozzle pressure.

AERIAL SPRAY DRIFT MANAGEMENT

Spray Drift Management

AVOIDING SPRAY DRIFT AT THE APPLICATION SITE 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 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 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 applicator should be familiar with and take into account the information covered in the <u>Aerial Drift Reduction</u> <u>Advisory</u>.

Aerial Drift Reduction Advisory

[This section is advisory in nature and does not supersede the mandatory label requirements.]

Information on 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 will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (See Wind, Temperature and Humidity, and Temperature Inversions).

Controlling Droplet Size

- Volume Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types lower
 pressure produces larger droplets. 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 that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from 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 the largest droplets and the lowest drift.

Boom Length

For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

Application Height

Applications should not be made at a height greater than 10 feet above the top of the target plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

Swath Adjustment

When applications are made with a crosswind, 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 (higher wind, smaller drops, etc.)

Wind

Drift potential is lowest between wind speeds of 3-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 3 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator 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 winds 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 generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Sensitive Areas

The pesticide 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).

HOODED SPRAYERS: This product may be used through hooded sprayers for weed control between the rows of corn. Only hooded sprayers that completely enclose the spray pattern may be used.

A hooded sprayer is a type of shielded applicator. The spray pattern is completely enclosed on the top and all 4 sides by a hood, thereby shielding the crop from the spray solution. This equipment must be set up and operated in a manner that avoids bouncing or raising the hoods off the ground in any way. If the hoods are raised, spray particles may escape and come into contact with the crop, causing damage or destruction of the crop. The spray hoods must be operated on the ground or skimming across the ground. Tractor speed must be adjusted to avoid bouncing of the spray hoods. Avoid operation on rough or sloping ground where the spray hoods might be raised off the ground.

When applying to corn that is grown on raised beds, ensure that the hood is designed to completely enclose the spray solution. If necessary, extend the front and rear flaps of the hoods to reach the ground in deep furrows. Follow these requirements:

- The spray hoods must be operated on the ground or skimming across the ground.
- Do not apply more than 54 ounces of this product per acre per application.
- Corn must be at least 12 inches tall, measured without extending leaves.
- Do not apply after tasseling.
- Leave at least an 8 inch untreated strip over the drill row. For example, if the crop row width is 38 inches, the maximum width of the spray hood should be 30 inches.
- Maximum tractor speed: 5 mph.
- Maximum wind speed: 10 mph.
- Use low-drift nozzles.

Crop injury may occur when the foliage of treated weeds comes into direct contact with leaves of the crop. Do not apply this product when the leaves of the crop are growing in direct contact with weeds to be treated. Droplets, mist, foam or splatter of the herbicide solution may contact the crop and cause discoloration, stunting or destruction.

Contact of this product in any manner to any vegetation to which treatment is not intended may cause damage. Such damage shall be the sole responsibility of the applicator.

Do not graze or feed corn forage or fodder following applications of this product through hooded sprayers.

Do not apply more than 6 quarts of this product per acre per year for hooded sprayer applications.

MIXING INSTRUCTIONS

Landmaster® BW ALONE



Fill the spray tank to about ¾ of the desired volume with clean water. Add the recommended amount of this product, then complete the filling process while maintaining agitation. Remove the hose from the mix tank immediately after filling to avoid siphoning back into the carrier source. During mixing and application, foaming of the spray solution may occur. To prevent or minimize foam, terminate by-pass and return lines at the tank bottom and/or use an agriculturally approved antifoam or defoaming agent. Additional surfactant is not necessary for this formulation.

NOTE: Reduced results may occur if water containing soil is used, such as water from ponds and unlined ditches.

TANK MIXTURES

Always predetermine the compatibility of labeled tank mixtures of this herbicide with water carrier by mixing small proportional quantities in advance.

Mix labeled tank mixtures of Landmaster® BW herbicide with water as follows:

- 1. Place a 20 to 35-mesh screen or wetting basket over filling port.
- 2. Through the screen, fill the sprayer tank one-half full with water and start agitation.
- 3. If a wettable powder is used, make a slurry with the water carrier, and add it SLOWLY through the screen into the tank. Continue agitation.
- 4. If a flowable formulation is used, premix one part flowable with one part water. Add diluted mixture SLOWLY through the screen into the tank. Continue agitation.
- 5. If an emulsifiable concentrate formulation is used, premix one part emulsifiable concentrate with two parts water. Add diluted mixture SLOWLY through the screen into the tank. Continue agitation.
- 6. Continue filling the sprayer tank with water and add the required amount of Landmaster® BW herbicide near the end of the filling process.
- 7. Add individual formulations to the spray tank as follows: wettable powder, flowable, emulsifiable concentrate, drift control additive, water-soluble liquid.

Maintain good agitation at all times, until the contents of the tank are sprayed. If the spray mixture is allowed to settle, thorough agitation is required to resuspend the mixture before spraying is resumed. Keep by-pass line on or near bottom of tank to minimize foaming. Screen size in nozzle should be no finer than 100 mesh and in-line strainers should be no finer than 50 mesh. Carefully select proper nozzle to avoid spraying a fine mist. For best results with conventional ground application equipment, use flat fan nozzles.

Check label of all products used in tank mix for cleaning instructions. Clean as per the hardest material to remove.

SPRAYER CLEANUP

CLEAN THE ENTIRE SPRAYER AFTER APPLICATION OF THIS PRODUCT. Failure to clean the sprayer thoroughly may result in injury to desirable crops which are subsequently sprayed.

First, add clean water to the tank and thoroughly rinse the entire sprayer system. Secondly, fill the tank with water and ammonia. Add 1 quart of household ammonia per 25 gallons of water. Pump enough solution through the hoses, boom and nozzles to fill these parts completely. Then fill the tank, close and leave for 24 hours before draining and rinsing thoroughly with water.

Application or use of other agricultural chemicals with the equipment used for this product may result in injury to desirable vegetation.

Thoroughly wash aircraft, especially landing gear, after each day of spraying to remove residues of this product accumulated during spraying or from spills. PROLONGED EXPOSURE OF THIS PRODUCT TO UNCOATED STEEL SURFACES MAY RESULT IN CORROSION AND POSSIBLE FAILURE OF THE PART. LANDING GEAR ARE MOST SUSCEPTIBLE. The maintenance of an organic coating (paint) which meets aerospace specification MIL-C-38413 may prevent corrosion.

CONDITIONS OF SALE AND WARRANTY

The DIRECTIONS FOR USE of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of ALBAUGH, INC., its Supplemental Distributors, or the Seller. All such risks shall be assumed by the Buyer.

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