WIRDOW REAL PROTECTION	U.S. ENVIRONMENTAL PI AGENCY Office of Pesticide Pro Registration Division ( Ariel Rios Buildin 1200 Pennsylvania Av Washington, D.C. 2	ograms 7505P) 1g e., NW	EPA Reg. Number: 34704-996	Date of Issuance: 1 7 JUN 2008
	NOTICE OF PESTICIDE:		Term of Issuance:	
	Registration X_ Reregistration		Name of Pesticide Prod	luct:
	(under FIFRA, as amended) of Registrant (include ZIP Code):		AGSCO B-4 H	lerbicide
be submitted to an		sion prior to use of t	the label in com	
	ronment, the Administrator, on his	motion, may at any		
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7. To the Storage and Disposal section add "Pesticide Storage" in front of "Do not store near...".

8. With the exception of drift-related text appearing in the Environmental Hazards ("Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas") and General Precautions and Restrictions ("Do not apply this product in a way that will contact workers or other persons, either directly or through drift"), all drift text appearing on the label must be placed together and be located below the required text currently on the label. Any conflicting text must be deleted from the label. Spray drift text must be added to the label as follows: "2,-4-D esters may volatilize during conditions of low humidity and high temperatures. Do not apply during conditions of low humidity and high temperatures."

9. Change the REI to "24 hrs." to comply with the bromoxynil RED.

10. Correct the typographical errors "grund application" and in the paragraph above this heading on page 6 of the label. Replace the last two bullets under the "Restrictions and Precautions" section with the following: "Postemergence: Limited to one postemergence application per crop cycle. Maximum of 3.7 pints B-4 (1.25 lbs. 2,4-D a.e.) per acre per application. Preharvest: Limited to one preharvest application per crop cycle. Maximum of 1.4 pints B-4 (0.5 lbs. 2,4-D a.e.) per acre per application. Limited to 5.3 pints B-4 (1.75 lbs. 2,4-D a.e.) per acre per crop cycle." More restrictive language is acceptable (in order to not conflict with "The total cumulative rate should not exceed 3 pints/A per season." which is already on the label.

11. To the label add "Use of this product in certain portions of California, Oregon, and Washington is subject to the January 22, 2004 Order for injunctive relief in <u>Washington Toxics Coalition</u>, et al. v. EPA, C0132C, (W.D. WA). For further information, please refer to EPA Web Site: http://www.epa.gov/espp.".

Submit one copy of the revised final printed label for the record.

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

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

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

# AGSCO B-4 HERBICIDE

**ACTIVE INGREDIENT:** 

Isooctyl (2-ethylhexyl) ester of 2,4-dichlorophenoxyacetic acid*	
Octanoic acid ester of bromoxynil (3,5-dibromo-4-hydroxybenzonitrile) <sup>†</sup> 10.35%	
Heptanoic acid ester of bromoxynil (3,5-dibromo-4-hydroxybenzonitrile) +	)
OTHER INGREDIENTS: 34.75%	<u>)</u>
TOTAL	)

Contains xylene range/petroleum distillates.

\* 2,4-dichlorophenoxyacetic acid equivalent 29.38%. Contains 2.69 lbs. acid equivalent per gal. † Bromoxynil acid equivalent 14.21%. Contains 1.3 lbs. of bromoxynil per gal.

# KEEP OUT OF REACH OF CHILDREN

# **CAUTION**

FIRST AID				
If inhaled	• Move person to fresh air.			
	• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably to mouth-to-mouth, if possible.			
	• Call a poison control center or doctor for further treatment advice.			
If swallowed	• Immediately call a poison control center or doctor.			
	• Do not give any liquid to the person.			
	• Do not induce vomiting unless told to do so by the poison control center or doctor.			
	• Do not give anything to by mouth to an unconscious person.			
Have the product container or label with you when calling a poison control center or doctor, or going				
for treatment. N	OTE TO PHYSICIAN: Contains petroleum distillate. Vomiting may cause			
aspiration pneumonia; any product that produces physiological effects such as cholinesterase				
inhibitors require	specific antidotal or medical treatment.			

See side panel for additional precautionary statements.

# EPA Reg. No. 34704-996

Manufactured For: LOVELAND PRODUCTS, INC. P.O. Box 1286 Greeley, CO 80632-1286 ACCEPTED with COMMENTS In EPA Letter Dated: 1 7 JUN 2008

Under the Federal Insecticide. Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

34704 - 996

EPA Est. No.

Net Contents \_\_\_\_\_ Gallons

# PRECAUTIONARY STATEMENTS HALARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed or inhaled. Avoid contact with eyes or clothing. Avoid breathing spray mist.

# PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are barrier laminate or viton. If you want more options, follow the instructions for category G on an EPA chemical resistance category selection chart.

All mixers, loaders, applicators, flaggers, and other handlers must wear:

- coveralls over a long-sleeved shirt and long pants,
- shoes plus socks,
- chemical-resistant gloves when applying with any handheld nozzle or equipment, mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate,
- chemical-resistant apron when mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate.

See engineering controls for additional requirements.

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.

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 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 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 you will handle a total of 90 gallons or more of this product per day, you must use a mechanical transfer system for all mixing and loading operations. If this container contains 5 gallons or more in capacity, do not open pour product from this container. A mechanical system (such as a probe and pump or spigot) must be used for transferring the contents of this container. If this product is packaged in a 30 gallon drum, you must use a mechanical transfer system which terminates in a drip-free hard coupling which may be used only with a spray or mix tank which has been fitted with a compatible coupling. If you do not presently own or have access to a mechanical transfer system with this type of coupling, contact your dealer for information on how to obtain such a system or to modify your present system. When using a mechanical transfer system, do not remove or disconnect the pump or probe from the container until the container has been emptied and rinsed. The pump or probe system must be used to rinse the empty container and to transfer the rinsate directly to the mixing or spray tank. 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.

Application from a tractor or aerial application with a completely enclosed cab is required whenever this product is applied to 360 or more acres in a day. To avoid contamination, coveralls and gloves worn when handling the concentrate must be removed prior to entering an enclosed cab or cockpit. When applying from a tractor with an enclosed cab, clean coveralls and clean nitrile gloves must be kept inside the cab and must be worn when exiting the cab to perform in-field maintenance or repair.

To reduce exposure to residue /ash the spray rig, tractor, and all other ipment used to handle or apply this product with water daily or before using the equipment for any other purpose.

During aerial application, human flaggers are prohibited unless in enclosed vehicles. Aerial application is prohibited within 300 feet of residential areas (e.g., homes, schools, hospitals, shopping areas, etc.).

# SPRAY DRIFT MANAGEMENT

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, and 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 non-target species, non-target 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 plantings that might be damaged or crops thereof rendered unfit for sale, use or consumption. Susceptible crops include, but are not limited to, cotton, okra, flowers, grapes (in growing stage), fruit trees (foliage), soybeans (vegetative stage), ornamentals, sunflowers, tomatoes, beans, and other vegetables, or tobacco. Small amounts of spray drift that might not be visible may injure susceptible broadleaf plants.

# 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 or surrogates.

#### Additional requirements for aerial applications:

The boom length must not 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 crop 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.

4

Additional requirements for ground boom application:

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

#### USER SAFETY RECOMMENDATIONS

#### Users should:

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

#### ENVIRONMENTAL HAZARDS

This product is toxic to wildlife, fish, and aquatic invertebrates. Use with care when applying to areas frequented by wildlife or adjacent to any body of water. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwaters or rinsate. Do not apply when weather conditions favor drift from target area as this product may injure cotton, beans, other vegetables, certain legumes and ornamentals.

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 system 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.

# PHYSICAL OR CHEMICAL HAZARDS

Do not use, pour, spill or store near heat or open flame.

#### **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.

# AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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

PPE required for early entry to pated areas that is permitted under the W<sup>-1</sup> er Protection Standard and that 5 involves contact with anything ...at has been treated such as plants, soil, c. vater is: Coveralls, chemical-resistant gloves made of any waterproof material, and shoes plus socks.

#### STORAGE AND DISPOSAL

# DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL. STORAGE

Do not store near fertilizer, other pesticides or seeds. Store at a temperature above 3 degrees Fahrenheit. If allowed to freeze, remix before use.

#### DISPOSAL

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. 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**: Follow the instructions for your container size and type in the following table:

CONTAINER SIZE	FOLLOW INSTRUCTION IN SECTIONS
Disposable containers: 1 qt. to 5 gal.	A and B
Disposable containers: 5 gal. to 56 gal.	A and C
Disposable containers: larger than 56 gal.	A and D
Returnable containers (any size)	E

A. **Nonrefillable container**: Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact The Agricultural Container Recycling Council (ACRC) at www.acrecycle.org. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

B. For packages up to 5 gallons: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain 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. 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 of 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.

C. For packages greater than 5 gallons and less than 56 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 of disposal. Repeat this procedure two more times. 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 contai8ner 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.

D. For packages greater than 56 gallons: To clean the container before final disposal, empty the remaining contents from this 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 rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

E. **For refillable containers:** 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 f in this container into application equipment or mix tank. Fill the container f about 10 percent full with well. Agitate vigorously or recirculate wate. It the pump for 2 minutes. Pour or pump rinsate into application equipment ore rinsate collection system. Repeat this rinsing procedure two more times.

**GENERAL INFORMATION:** B-4 is formulated as an emulsifiable concentrate of octanoic acid and heptanoic acid esters of bromoxynil containing the equivalent of 1.33 pounds of bromoxynil and isooctyl ester of 2,4-dichlorophenoxyacetic acid containing the equivalent of 2.69 pounds of acid equivalent per gallon.

B-4 is a selective postemergence herbicide for control of important broadleaf weeds infesting small grains (wheat, barley, rye). Optimum weed control is obtained when B-4 is applied to actively growing weed seedlings. Thorough coverage of weed seedlings is essential for optimum control. B-4 has little residual activity. Therefore, flushes of weeds will not be controlled by the initial treatment.

Occasional transitory leaf burn may occur. The temporary leaf burn is similar to that seen with liquid fertilizer. Recovery of the crop is generally rapid with no lasting effect. Frequency and amount of leaf burn may be greater when crops are stressed by abrasive winds, cool to cold evening temperatures or mechanical injury, such as that caused by hail, sleet, or insect feeding. To reduce the potential for temporary leaf burn, applications should be made to dry foliage in the recommended spray volumes per acre when weather conditions are not extreme,

#### **USE PRECAUTIONS**

Avoid use of small diameter spray nozzles. Avoid spray drifts onto susceptible plants such as vegetables, flowers, tomatoes, beans, sugarbeets, sunflowers and other legumes. Coarse sprays are less likely to drift. Do not spray at all in the vicinity near susceptible plants to prevent any vapor drift. Local conditions may affect the use of herbicides. State agricultural authorities in many states issue recommendations to fit local conditions. Be sure that the use of this product conforms to all applicable conditions.

If tank mixing, a compatibility test is recommended to ensure satisfactory spray preparation. To test for compatibility, use a small container and mix a small amount (0.5 to 1 quart) of spray, combining all ingredients in the same ratio as the anticipated use. If any indications of physical incompatibility develop, do not use this mixture for spraying. Indications of incompatibility usuOally will appear within 5 to 15 minutes after mixing. To ensure maximum crop safety and weed control, follow all cautions and limitations on this label and the labels of products used in the tank mixture.

#### **GRUND APPLICATION**

Use a standard herbicide boom sprayer that provides uniform and accurate application. Sprayer should be equipped with screens no finer than 50 mesh in the nozzle tips and in-line strainers.

Select a spray volume and delivery system that will ensure thorough and uniform spray coverage. For optimum spray distribution and thorough coverage, use of flat-fan nozzles (maximum tip size 8008) with a minimum spray pressure of 30 psi at the nozzle tips are recommended. Other nozzle types that produce course spray droplets may not provide adequate coverage of the weeds to ensure optimum control. Raindrop® nozzles are not recommended as weed control may be reduced. In general a minimum spray volume of 10 gallons per acre (GPA) is recommended for optimum spray coverage. When using higher speed equipment, a maximum ground speed of 10 mph is suggested if field conditions cause excessive boom movement during application and subsequent poor spray coverage. Ground applications made when dry, dusty field conditions exist may provide reduced weed control in wheel track areas.

When weed infestations are heavy, use of higher spray volumes and spray pressure will be helpful in obtaining uniform weed coverage. If you are unsure of the infestation level or size of crop, consult your local extension service.

Do not apply when winds are gusty or when other conditions favor poor spray coverage and/or off target spray movement.

# **AERIAL APPLICATION**

Use orifice discs, cores and nozzle types and arrangements that will provide for optimum spray distribution and maximum coverage. In general a minimum spray volume of 5 GPA and a maximum pressure of 40 psi are recommended. A minimum spray volume of 3 GPA may be used if crop canopy and weed density allow adequate spray coverage at that gallonage. Aerial application using less than 5 gallons of spray volume per acre may result in reduced weed control.

Do not apply during inversion conditions, when winds are gusty or when other conditions favor poor spray coverage and/or off target spray movement. Off target spray movement can be minimized by increasing the spray volume per acre and not applying when winds exceed 10 mph.

## WHEAT, BARLEY, RYE

Use 1.1 to 1.5 pints of this herbicide per acre in enough spray volume to provide uniform coverage of weeds, usually 10 to 20 gallons per acre by ground equipment and 5 gallons by aircraft. Make application only between stooling and joint stages. Best results will be obtained when soil moisture is sufficient to cause succulent weed growth.

Use of this product controls the following weeds: mustard, frenchweed, arrowhead, dandelion, gumweed, marshelder, hedge bindweed, pigweed, ragweed, wild buckwheat, plantain, nightshade (black, cutleaf, and eastern black) annual smartweed, lanceleaf sage, sunflower, canola, cow cockle, Russian thistle, kochia (less than 2" in height), cocklebur, lambsquarter and other broadleaf weeds.

#### **RESTRICTIONS AND PRECAUTIONS**

- Do not graze treated fields within 45 days following treatment.
- Do not apply when crops are under moisture stress.
- Do not apply when crop canopy covers the weeds as poor weed control will result.
- Reduced weed control may occur when weeds are stressed from lack of moisture or cold temperatures.
- Do not plant rotational crops within 30 days following B-4 application.
- The total cumulative rate should not exceed 3 pints/A per season.
- The preharvest interval (PHI) is 14 days.
- Maximum of 1.25 lbs. 2,4-D ae per acre per application.
- Limited to 1.75 lbs. 2,4-D ae per acre per crop cycle.

#### CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**BEFORE BUYING OR USING THIS PRODUCT**, read the entire Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary in any way.

Follow the Directions for Use of this product carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop or other plant injury, ineffectiveness, or other unintended consequences may result from such risks as weather or crop conditions, mixture with other chemicals not specifically identified in this product's label, or use of this product contrary to the label instructions, all of which are beyond the control of LOVELAND PRODUCTS, INC. and the seller. The buyer or user of this product assumes all such inherent risks.

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8

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