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DFU Booklet

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| GROUP | 14 | HERBICIDE |
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BLAZER®

POST-EMERGENCE HERBICIDE FOR SOYBEANS

COMMERCIAL (AGRICULTURAL)

GUARANTEE: Acifluorfen (present as sodium salt) 240 g/L

REGISTRATION NO. 23315

PEST CONTROL PRODUCTS ACT



WARNING

POISON

DANGER - CORROSIVE TO EYES

**IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR
POISONING CALL 1-800-424-9300 (CHEMTREC).**

**KEEP OUT OF REACH OF CHILDREN.
READ THE LABEL AND THIS BOOKLET BEFORE USING.**

NET CONTENTS: 10 L

UPL AgroSolutions Canada Inc.
PO Box 12219
Research Triangle Park, NC 27709
1-800-438-6071

GENERAL INFORMATION

BLAZER is a selective post-emergence herbicide which can be applied alone or in a tank mix combination with **BASAGRAN®** or **BASAGRAN FORTE** as a single application for the control of certain broadleaf weeds and suppression of specific perennial weeds in soybeans. For best results, apply **BLAZER** herbicide when the weeds are small and actively growing. It is important to have good spray coverage on the weeds as **BLAZER** works mainly by contact action. Failure to follow the suggested application rate and timing may result in unsatisfactory control.

APPLY BLAZER USING GROUND EQUIPMENT ONLY. DO NOT APPLY BY AIR.

CROP TOLERANCE

Soybeans are tolerant to a postemergence application of **BLAZER** when applied at the recommended growth stages and suggested rate. Soybeans may exhibit speckling, bronzing and/or leaf burn. The trifoliolate leaf emerging at the time of application may be distorted. Soybeans usually outgrow these conditions and continue to grow at a normal rate with no adverse effect on vigour, maturity, or crop yield.

DIRECTIONS FOR USE

TIMING OF APPLICATION

To ensure most effective weed control, correct timing is very important. Apply **BLAZER** alone or the tank mix of **BLAZER + BASAGRAN** or **BASAGRAN FORTE** when the susceptible weeds are young and actively growing and the soybeans are in the 1-3 trifoliolate leaf stage. This is usually 24 to 28 days after soybean planting in most years. **Do not apply before the first trifoliolate leaf stage of the soybean.** **BLAZER** and the tank mix of **BLAZER + BASAGRAN** or **BASAGRAN FORTE** provide the best weed control when maximum daily temperatures are expected to be above 21°C. In solid seeded or broadcast soybean plantings, **BLAZER** and the tank mix of **BLAZER + BASAGRAN** or **BASAGRAN FORTE** should be applied when the soybeans are in the 1-2 trifoliolate leaf stage in order to ensure good spray coverage of weeds. Later applications may result in poor weed control because of advanced weed growth or poor coverage due to the crop canopy covering the weeds.

APPLICATION INSTRUCTIONS: **BLAZER** alone

Apply **BLAZER** at 1.25 L/ha. **When applying BLAZER at 1.25 L/ha, add 0.5% v/v (1-2 L/ha depending on application volume) of ASSIST Oil Concentrate.** This treatment will provide control of common ragweed and redroot pigweed.

Apply **BLAZER** at 2.5 L/ha. **Do not add oils or surfactants to the spray mixture when applying the 2.5 L/ha rate of BLAZER alone.**

BLAZER will control the following weeds when applied prior to the specified maximum heights:

TABLE 1 - WEEDS CONTROLLED BY BLAZER

Annual Weeds

| <u>Broadleaf Weeds</u> | <u>Maximum Leaf Stage BLAZER at 2.5 L/ha</u> | <u>Maximum Leaf Stage BLAZER at 1.25 L/ha*</u> |
|-------------------------------|---|---|
| Cocklebur | 4 | |
| Jimsonweed | 10 | |
| Lady's-thumb (Smartweed) | 8 | |
| Lamb's-quarters | 2 | |
| Mustard (Wild) | 10 | |
| Nightshade (Eastern Black) | 6 | |
| Pigweed (Redroot) | 6 | 4 |
| Ragweed (Common) | 8 | 8 |

*ASSIST Oil Concentrate required.

Perennial Weeds (suppression only) at 2.5 L/ha only

| | |
|-----------------|--|
| Canada thistle: | A single application of BLAZER before the bud stage will severely stunt Canada thistle. The terminal bud of the plant will be killed and the thistle will generally not flower nor set seed. Limited regrowth from some plants may occur. |
| Hedge bindweed: | BLAZER will burn back all top growth of this perennial vine. However, limited regrowth may occur. |
| Field bindweed: | BLAZER will burn back the top growth of this perennial vine. However, limited regrowth will occur, depending upon conditions at the time of application. The underground root system is not affected by this herbicide treatment. |

Common milkweed: **BLAZER** will burn back top growth of milkweed if this perennial weed receives thorough spray coverage. However, there will be immediate regrowth from the base of the stem, or from underground roots.

APPLICATION INSTRUCTIONS: BLAZER plus BASAGRAN or BASAGRAN FORTE tank mixture

BLAZER can be tank mixed with **BASAGRAN** or **BASAGRAN® FORTE** for control of additional broadleaf weeds.

BLAZER and BASAGRAN

When tank mixing **BLAZER** and **BASAGRAN**, use **ASSIST Oil Concentrate** at a rate of 1.0 to 2.0 L/ha depending on climatic conditions and the spray volume used. Under hot, humid conditions, restrict the **ASSIST** rate to 1.0 L/ha.

Use the following application rates when tank mixing **BLAZER** with **BASAGRAN**:

BLAZER at 0.63 L/ha plus **BASAGRAN** at 1.75 L/ha plus **ASSIST Oil Concentrate** at 1.0 to 2.0 L/ha will control the weeds listed in Table 2 up to the specified leaf stage.

BLAZER AND BASAGRAN FORTE

Use the following application rates when tank mixing **BLAZER** with **BASAGRAN FORTE**:

BLAZER at 1.25 L/ha plus **BASAGRAN FORTE** at 1.25 L/ha will control the weeds listed in Table 2 up to the specified leaf stage. Use this treatment where common ragweed and/or redroot pigweed are the dominant weed species present.

OR

BLAZER at 0.63 L/ha plus **BASAGRAN FORTE** at 1.75 L/ha will control the weeds listed in Table 2 up to the specified leaf stage. Use this treatment where lamb's-quarters and weeds other than common ragweed and redroot pigweed are the dominant weed species present.

Do not use ASSIST Oil Concentrate or other surfactant with the BLAZER plus BASAGRAN FORTE tank mixture.

**TABLE 2 - WEEDS CONTROLLED BY BLAZER PLUS BASAGRAN OR
BASAGRAN FORTE TANK MIXES**

| Weed Species | Maximum Leaf Stage BLAZER at 1.25 L/ha plus BASAGRAN FORTE at 1.25 L/ha | Maximum Leaf Stage BLAZER at 0.63 L/ha plus BASAGRAN FORTE or BASAGRAN* at 1.75 L/ha |
|--------------------------|--|---|
| Bird rape | | 6 |
| Cocklebur | | 6 |
| Flower-of-an-hour | | 6 |
| Lady's-thumb (Smartweed) | | 8 |
| Lamb's-quarters | 6 | 6 |
| Mustard (Wild) | | 8 |
| Nightshade (Species) | | 4 |
| Pigweed (Redroot) | 8 | 8 |
| Ragweed (Common) | 8 | 8 |
| Shepherd's-purse | | 6 |
| Stinkweed | | 6 |
| Velvetleaf | 4 | 4 |

***ASSIST Oil Concentrate** required.

Weeds treated prior to the first true leaf stage may not be adequately controlled.

Refer to **BASAGRAN** or **BASAGRAN FORTE** label for additional restrictions and limitations.

MIXING

1. Shake container well before using.
2. Clean spray tank with suitable tank cleaner and fill the clean and empty spray tank one-half full with water. Begin agitation and add the required amount of **BLAZER**.

3. If required, add the correct amount of **BASAGRAN FORTE** or **BASAGRAN** followed by **ASSIST**. Empty containers should be triple-rinsed with water and the rinsing added to the spray tank while maintaining agitation.
4. Add the remainder of water to the spray tank and maintain sufficient agitation during mixing and spraying to ensure a uniform spray mixture.
5. If an oil film starts to build up in the tank, drain it and clean the tank with detergent solution.
6. Thoroughly clean the spray tank immediately after use by flushing the system with clean water containing detergent.

RESTRICTIONS AND LIMITATIONS

1. Do not treat any crop other than soybeans.
2. Do not use **BLAZER** with additives, pesticides or fertilizers not specifically recommended on this label.
3. Do not apply **BLAZER** to soybeans that have been subjected to stress from conditions such as:
 - a) frost
 - b) hail damage
 - c) flooding
 - d) hot, humid weather
 - e) drought
 - f) widely fluctuating temperatures
 - g) prolonged cold weather
 - h) injury from prior herbicide applicationsas crop injury may result.
4. Rainfall within 6 hours of application may reduce effectiveness of spray, particularly on perennial weeds.
5. When **BLAZER** is applied beyond the maximum weed heights, limited to unsatisfactory weed control will result.
6. Cool weather conditions or drought will delay herbicide activity and if prolonged, may result in poor weed control.

7. Cultivation before or during the application of **BLAZER** or the tank mix of **BLAZER + BASAGRAN** or **BASAGRAN FORTE** is not recommended. If cultivation is desired, wait until 7 days after application.
8. **DO NOT APPLY BLAZER BY AIR.**
9. Avoid spray drift which could result in damage to non-target crops.
10. **DO NOT** apply this product directly to aquatic habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, ditches and wetlands), estuaries or marine habitats.
11. Do not apply **BLAZER** on soybeans grown on sand or loamy sand soils.
12. **CAUTION:** Do not graze treated crop or cut for hay; sufficient data are not available to support such use.
13. **DO NOT** enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.
14. Field sprayer application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification.
15. **Buffer zones:** A buffer zone of 15 meters is required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, pastures, rangelands and shrublands). When a tank mixture is used, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zones of the products involved in the tank mixture.
16. **DO NOT** contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

ENVIRONMENTAL HAZARDS

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g., sandy soil) and/or the water table is shallow.

To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to, heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g., soils that are compacted, fine textured or low in organic matter such as clay).

Avoid application of this product when heavy rain is forecast.

Observe the buffer zones as specified under the “Restrictions and Limitations” section of this label.

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, **BLAZER** is a Group 14 herbicide. Any weed population may contain or develop plants naturally resistant to **BLAZER** and other Group 14 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance:

- Where possible, rotate the use of **BLAZER** or other Group 14 herbicides with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted.
- Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.
- Monitor treated weed populations for resistance development.
- Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact UPL AgroSolutions Canada Inc. at 1-800-438-6071.

PRECAUTIONS

1. **KEEP OUT OF REACH OF CHILDREN.**
2. May be harmful if swallowed. Do not take internally.

3. Corrosive to eyes. Do not get in eyes. Causes skin irritation. Avoid contact with skin. Harmful if inhaled. Avoid inhalation of vapour or spray mist.
4. Wear protective clothing, including a hat, long-sleeved shirt, trousers and rubber boots during mixing/loading, application, cleanup and repair activities.
5. Wear protective eyewear such as goggles or face shield and suitable chemical resistant gloves during mixing and loading, cleanup and repair activities.
6. An approved respirator is recommended during mixing and loading operations.
7. Wash hands and face thoroughly after handling and before eating, drinking, smoking or using the toilet.
8. Store and wash all protective clothing separately from household laundry. Wash in detergent and hot water before reuse. Wear freshly laundered clothes daily.
9. Clean application equipment thoroughly after use, taking care not to contaminate domestic or irrigation water, lakes, streams or ponds.
10. It is recommended that this product not be applied in a way that will contact workers or other persons, either directly or through drift. Only handlers wearing personal protective equipment may be in the treatment area during application.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's website at www.croplife.ca.

FIRST AID INSTRUCTIONS

In case of eye contact: 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 centre or doctor for treatment advice.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

If swallowed: Call a poison control centre 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 centre or doctor. Do not give anything by mouth to an unconscious person.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if

possible. Call a poison control centre or doctor for further treatment advice.

Never give anything by mouth to an unconscious person. Remove victim to safe, uncontaminated area. If victim has ceased breathing, clear airway and start artificial respiration. Obtain medical attention.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION

Treat symptomatically.

STORAGE

1. Store in original tightly closed container.
2. Do not ship or store near food, feed, seed and fertilizers.
3. Store in cool, dry, locked, well-ventilated area without floor drain.
4. Herbicides should be shipped or stored separately from other pesticides to avoid cross-contamination.
5. Keep from freezing. Store above 0°C.

DISPOSAL

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for any further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

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For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

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NOTICE TO USER

This pest control product is to be used only in accordance with the directions on this label. It is an offence under the ***PEST CONTROL PRODUCTS ACT*** to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

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