

7969-135

2/26/2009

1 of 26



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

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Mr. Dave G. Bolin
Product Registration
BASF Corporation, Agricultural Products
PO Box 13528
Research Triangle Park, NC 27709-3528

FEB 26 2009

SUBJECT: Application for Pesticide Notification (PRN 98-10)
Request Primary Brand Name "BAS 183 10H Herbicide"
EPA Reg. No. 7969-135
Application Dated January 28, 2009

Dear Registrant:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated 01/28/09 for the above product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please call me directly at 703-305-6249 or Owen F. Beeder of my staff at 703-308-8899.

Sincerely,

A handwritten signature in black ink, appearing to be "Linda Arrington".

Linda Arrington
Notifications & Minor Formulations Team Leader
Registration Division (7505P)
Office of Pesticide Programs

20926



United States
Environmental Protection Agency
Washington, DC 20460

Registration
 Amendment
 Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number BASF Corporation / 7969-135	2. EPA Product Manager Joanne Miller	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) BASF Corporation / Banvel SGF Herbicide	PM# 23	
5. Name and Address of Applicant (Include ZIP Code) BASF Corporation 26 Davis Drive / P.O. Box 13528 Research Triangle Park, NC 27709 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. <u>NOTIFICATION</u> Product Name <u>FEB 26 2009</u>	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification for new primary brand name "BAS 183 10H" for the 7969-135 product formerly known as Banvel SGF Herbicide. BASF will use BAS 183 10H as the primary brand name for 7969-135. This submission is made in accordance with PR Notice 98-10.

Attn: Label Notification Team. No PRIA fee is associated with this action.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Metal	<input checked="" type="checkbox"/> Plastic
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
		If "Yes" Package wgt	No. per container	<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container Including, but not limited to, 2.5 gal		5. Location of Label Directions <input checked="" type="checkbox"/> On Label	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph Paper glued Stenciled			<input type="checkbox"/> Other _____		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)			
Name Dave G. Bolin, Ph.D.	Title Product Registration Manager	Telephone No. (Include Area Code) 919-547-2108	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			6. Date Application Received (Stamped)
2. Signature 		3. Title Product Registration Manager	
4. Typed Name Dave G. Bolin		5. Date January 28, 2009	



The Chemical Company

January 28, 2009

Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504C)
U S Environmental Protection Agency
One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

**RE: Banvel® SGF Herbicide (EPA Reg. No. 7969-135);
Notification – Change in Primary Brand Name to BAS 183 10H Herbicide**

Dear Notification Team,

BASF Corporation is submitting a form 8570-1 and this letter in accordance PR Notice 98-10 Section II (A) to inform EPA of our new primary brand name "**BAS 183 10H Herbicide**" for the 7969-135 product. Also included is an approved Banvel SGF label, and a new label with the name replaced by the **BAS 183 10H** name.

BASF will use **BAS 183 10H** as the primary brand name for 7969-135.

BASF believes that no PRIA fee is associated with this action. Thank you for your assistance with this request. If you have any questions or need additional information please contact me at 919-547-2108 (david.bolin@basf.com).

"This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of 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 this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, 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."

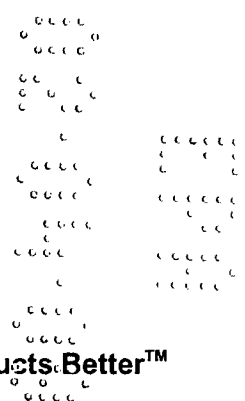
Respectfully submitted,

Dave G. Bolin, Ph.D.
Product Registration Manager

Cc: Julia Stokes, Chemical Review Manager, Product Reregistration Branch

BASF Corporation
26 Davis Drive
Research Triangle Park, NC 27709-3528
Tel: (919) 547-2000
www.basf.com/usa

Helping Make Products Better™



4026



The Chemical Company

BAS 183 10 H Herbicide

Small grains/Corn/Fallow/Cotton/Sugarcane

For weed control in cotton, fallow, and small grains.

Active Ingredient:

Dimethylamine salt of dicamba (3,6-dichloro-o-anisic acid)* 23.15%

Inert Ingredients: 76.85%

Total: 100.00%

* contains 21.06% 3,6-dichloro--o-anisic acid (dicamba) or 2 pounds per gallon (240 g/l).

EPA Reg. Number: 7969-135

EPA Est. Number:

KEEP OUT OF REACH OF CHILDREN.

WARNING/AVISO

NOTIFICATION

FEB 26 2009

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

FIRST AID	
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. • Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If on skin or clothing	<ul style="list-style-type: none"> • 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.
If swallowed	<ul style="list-style-type: none"> • 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.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357).	

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

WARNING

Causes substantial but temporary eye injury. **DO NOT** get in eyes or on clothing. Harmful if swallowed or absorbed through skin. Wear protective eyewear.

Personal Protective Equipment:

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Protective eyewear
- Chemical resistant gloves

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. **DO NOT** reuse them. 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.

Engineering controls statements:

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

User Safety Recommendations
<p>Users should:</p> <ul style="list-style-type: none"> • 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

Keep out of lakes, streams or ponds. **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. Apply this product only as directed on the label.

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 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Chemical resistant gloves
- Shoes plus socks
- Protective eyewear

DO NOT apply this product through any type of irrigation system.

For additional copies of the Specimen Label, write to the manufacturer.

IMPORTANT

BEFORE USING BAS 183 10 H HERBICIDE

READ AND FOLLOW THESE PRECAUTIONS

The following directions apply to all uses of **BAS 183 10 H**: Additional precautions and restrictions will be found in each specific use section.

DO NOT contaminate irrigation ditches or water used for domestic purposes.

SENSITIVE CROP PRECAUTIONS

BAS 183 10 H may cause injury to desirable trees and plants, particularly beans, cotton, flowers, fruit trees, grapes, ornamentals, peas, potatoes, soybeans, sunflowers, tobacco, tomatoes and other broadleaf plants when contacting their roots, stems or foliage. These plants are most sensitive to **BAS 183 10 H** during their development or growing stage. **FOLLOW THE PRECAUTIONS LISTED BELOW WHEN USING BAS 183 10 H.**

- **DO NOT** treat areas where either possible downward movement into the soil or surface washing may cause contact of **BAS 183 10 H** with the roots of desirable plants such as trees and shrubs.
- Avoid making applications when spray particles may be carried by air currents to areas where sensitive plants are growing. **DO NOT** spray adjacent to sensitive plants if wind is gusty or in excess of 5 mph or moving in the direction of nearby sensitive plants. Leave a buffer zone between area to be treated and sensitive plants. Avoid spraying under inversion conditions to protect against off target movement to sensitive crops. Coarse (greater than 100 micron droplets) sprays are less likely to drift out of the target area than fine sprays. Agriculturally approved drift-reducing additives may be used.
- **DO NOT** apply **BAS 183 10 H** adjacent to sensitive crops when the temperature on the day of application is expected to exceed 85° F.
- To avoid injury to desirable plants, equipment used to apply **BAS 183 10 H** should be thoroughly cleaned before reusing to apply any other chemicals (see **PROCEDURE FOR CLEANING SPRAY EQUIPMENT**).

All crop uses of **BAS 183 10 H** are intended for a normal growing interval between planting and harvest. No crop rotation restrictions exist if normal harvest of treated crop has occurred. If this interval is shortened, such as in cover crops that will be plowed under, **DO NOT** follow up with the planting of a sensitive crop.

Crops growing under stress conditions such as, but not limited to, drought, excessive moisture, poor fertility, frost or foliar damage due to hail, wind or insects, or when the crop is not actively growing, can exhibit various injury symptoms that may be more pronounced if herbicides are applied.

Consult your local or state authorities for possible application restrictions and advice concerning these and other special local use situations. Tank mix recommendations are for use only in states where the tank mix product and application site are registered.

PROCEDURE FOR CLEANING SPRAY EQUIPMENT

The steps listed below are suggested for thorough cleaning of spray equipment following applications of **BAS 183 10 H HERBICIDE** or tank mixes of **BAS 183 10 H** or tank mixes of **BAS 183 10 H** plus 2,4-D amine.

1. Hose down thoroughly the inside as well as outside surfaces of equipment while filling the spray tank half full of water. Flush by operating sprayer until the system is purged of the rinse water.
2. Fill tank with water while adding 1 quart of household ammonia for every 25 gallons of water. Operate the pump to circulate the ammonia solution through the sprayer system for 15 to 20 minutes and discharge a small amount of the ammonia solution through the boom and nozzles. Let the solution stand for several hours, preferably overnight.
3. Flush the solution out of the spray tank through the boom.
4. Remove the nozzles and screens and flush the system with two full tanks of water.

The steps listed below are suggested for thorough cleaning of spray equipment used to apply **BAS 183 10 H** as a tank mix with wettable powders (WP), emulsifiable concentrates (EC), or other types of water-dispersible formulations. **BAS 183 10 H** tank mixes with water-dispersible formulations require the use of a water/detergent rinse.

5. Complete step 1.
6. Fill tank with water while adding 2 lbs of detergent for every 40 gallons of water. Operate the pump to circulate the detergent solution through the sprayer system for 5 to 10 minutes and discharge a small amount of the solution through the boom and nozzles. Let the solution stand for several hours, preferably overnight.
7. Flush the detergent solution out of the spray tank through the boom.
8. Repeat step 1, and follow with steps 2, 3, and 4.

MIXING AND APPLICATION

UNLESS OTHERWISE SPECIFIED UNDER THE INDIVIDUAL USE HEADINGS OF THIS BOOKLET, THE FOLLOWING DIRECTIONS APPLY TO ALL CROP AND NON-CROP USES OF BAS 183 10 H. REFER TO INDIVIDUAL USE SECTIONS FOR ADDITIONAL PRECAUTIONS, RESTRICTIONS, APPLICATION RATES AND TIMINGS.

BAS 183 10 H is a water-soluble formulation that can be applied using water or sprayable fluid fertilizer as the carrier. If a fluid fertilizer is to be used, a compatibility test (see **COMPATIBILITY TEST**) should be made prior to tank mixing. Using fluid fertilizers as the carrier after crop emergence may increase the risk of crop injury.

BAS 183 10 H should be mixed with other products only in the spray tank or shuttle in dilute form. **BAS 183 10 H** product concentrate should not be mixed directly with other product concentrates.

Ground or aerial application equipment which will give good spray coverage of weed foliage should be used. **DO NOT** use aerial application in areas where wind can carry spray onto sensitive plants.

Apply 3 to 50 gallons of diluted spray per treated acre when using ground application equipment (use a minimum of 5 gallons when treating dense vegetation), or 1 to 10 gallons of diluted spray per treated acre when using aerial application equipment (use a minimum of 2 gallons when treating dense vegetation). Use coarse sprays.

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

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

Sulfonylurea resistant weeds may not be controlled by tank mixes of **BAS 183 10 H** and a sulfonylurea. Refer to the **BAS 183 10 H** tank mix sections for alternative tank mixes.

COMPATIBILITY TEST

Before mixing in the spray tank, it is advisable to test compatibility by mixing all components in a small container in proportionate quantities (see following table).

Amount of Component to Add to One Pint of Spray Carrier
(Assuming Volume is 25 Gallons per Acre)

Component Formulations	Rate per Acre	Level Teaspoons
Dry	1 lb	1
Liquid	1 pt	-

If component(s) do not ball-up or form flakes, sludge, gels, oily films or layers, or other precipitates, then the tested spray mix is compatible. Usually, incompatibility in any of the above described forms will occur within 5 minutes after mixing.

If components are incompatible, the use of a compatibility agent is recommended. Rerun the above **COMPATIBILITY TEST** with a suitable compatibility agent.

(1/4 teaspoon is equivalent to 2 pints per 100 gallons of fluid fertilizer).

Spray Drift Management for Aerial Applications

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions. The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements **DO NOT** apply to forestry applications, public health uses or to applications using dry formulations.

1. The distance of the outer most nozzles on the boom must not exceed 3/4 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 [Aerial Drift Reduction Advisory Information](#).

Importance of 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 Inversion** section of this label).

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 - Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

Number of nozzles - Use the minimum number of nozzles that provide uniform coverage.

Nozzle Orientation - Orienting nozzles so that the spray is released backwards, parallel to the airstream will produce larger droplets than other orientations. Significant deflection from the horizontal will reduce droplet size and increase drift potential.

Nozzle Type - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce larger droplets than other nozzle types.

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 - Applications should not be made at a height greater than 10 feet above the top of the largest 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 cross-wind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.).

Wind

Drift potential is lowest between wind speeds of 2-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 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 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 connected cloud (under low wind conditions) indicates an inversion, while smoke that moves upwards 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).

SMALL GRAINS (NOT UNDERSEEDED TO LEGUMES) IMPORTANT

Observe all precautions. Read and follow cleaning, mixing and application instructions.

If small grains are used for pasture or hay, the following restrictions apply:

- Animals cannot be removed from treated area for slaughter prior to 30 days after last application.
- There is no waiting period between treatment and grazing for non-lactating animals.
- Treated areas may not be grazed by lactating dairy animals before 7 days after treatment.
- **DO NOT** harvest hay from treated areas before 37 days after treatment.

NOTE: Observe all precautions and restrictions on the labels of products used in tank mix treatments.

WEEDS CONTROLLED

BAS 183 10 H Herbicide, or combinations with listed tank mix partners, will provide control or suppression of the annual broadleaf weeds listed below. For improved control of listed weeds, it is recommended that **BAS 183 10 H** be applied in a tank mix with other herbicides. Refer to specific crop for tank mix options.

Alkanet (1)	Mustard, Wild (1)
Bedstraw, Catchweed (1)	Nightshade, Black
Bindweed, Field (2)	Nightshade, Cutleaf (1)
Buckwheat, Tartary	Nightshade, Silverleaf (2)
Buckwheat, Wild	(White Horsenettle)
Carpetweed (1)	Pennycress, Field (Fanweed,
Chamomile, Com	Frenchweed, Stinkweed)
Chervil, Bur (1)	Pepperweed, Peppergrass (1)
Chickweed, Common (1)	Pigweed, Redroot (Carelessweed)
Cockle, Com	Pigweed, Rough
Cockle, Cow	Pigweed, Tumble (Bachelorbutton) (1)
Cocklebur, Common	Pineappleweed (1)
Cornflower	Plantain, Broadleaf (2)
Dandelion, Common (2)	Poppy, Red Horned (1)
Dock, Curly (2)	Puncturevine (1)
Dragonhead, American (1)	Purslane, Common (1)
Evening Primrose, Cutleaf (1)	Radish, Wild (1)
Falseflax, Smallseeded (1)	Ragweed, Common (1)
Fiddleneck (Tarweed) (1)	Ragweed, Giant (Buffaloweed) (1)
Flixweed (1)	Rocket, London (1)
Fumitory (1)	Rocket, Yellow (1)
Gromwell, Com (1)	Salsify (Goatsbeard) (1)
Groundsel, Common (1)	Smartweed, Green
Hempnettle (1)	Smartweed, Pennsylvania
Henbit Shepherdspurse (1)	Sorrel, Red (Sheep Sorrel) (1)
Jacobs Ladder (1)	Starthistle, Yellow (1)
Knawel (German Moss)	Sunflower, Common (Wild)
Knotweed, Prostrate	Thistle, Canada (2)
Kochia Sowthistle, Annual	Thistle, Russian
Ladysthumb	Yarrow, Common (2)
Lambsquarters, Common	Velvetleaf
Lettuce, Miners (1)	Vetch (1)
Lettuce, Prickly	
Mallow, Common	
Mayweed, Chamomile (Dogfennel) (1)	
Mustard, Blue (Purple) (1)	
Mustard, Tansy	
Mustard, Treacle (1)	
Mustard, Tumble (Jim Hill) (1)	

- (1) These weeds will be controlled with **BAS 183 10 H Herbicide** tank mixtures. Refer to tank mix label for specific weeds controlled.
- (2) **BAS 183 10 H** tank mixes will provide suppression of established perennial broadleaf weeds and control of their seedlings.

RATES AND TIMINGS

Application of **BAS 183 10 H** may be made before, during or after planting of small grains. For best performance, make applications when weeds are in the 2 - 3 leaf stage and rosettes are less than 2 inches across. Application of **BAS 183 10 H** to small grains during periods of rapid growth may result in crop leaning. This condition is temporary and will not affect crop yield.

Use **BAS 183 10 H** at 4 to 8 fluid ounces per treated acre in wheat, fall seeded barley, and oats, and at 4 to 6 fluid ounces per treated acre in spring seeded barley. Use the higher level of listed rate ranges when treating difficult to control weeds such as kochia, wild buckwheat, cow cockle, prostrate knotweed, Russian thistle and prickly lettuce or when vegetative growth is dense.

BAS 183 10 H used in a tank mix with other herbicides offers the best spectrum of weed control and herbicide tolerant or resistant weed management. Refer to specific crop for **BAS 183 10 H** rate and application timing.

For applications prior to the emergence of weeds or when sulfonylurea resistant weeds are present or suspected, use a minimum of 6 fluid ounces per treated acre of **BAS 183 10 H** with a tank mix herbicide. Non-sulfonylurea herbicides such as 2,4-D or MCPA tank mixed with **BAS 183 10 H** will offer more consistent control of sulfonylurea resistant weeds. Surfactants are not recommended when applying **BAS 183 10 H** on small grains except when tank mixing with registered sulfonylurea small grain herbicides. When tank mixing with sulfonylurea herbicides, such as Amber®, Ally®, Express®, Finesse®, Glean® and Harmony® Extra, use an agriculturally approved surfactant of at least 80% active ingredient at the rate of 1 - 4 pints/100 gallons of spray or not more than 0.25 - 0.5% by volume. Use the highest rate of surfactant when using the lower rate ranges of the tank mix and/or when treating more mature and difficult to control weeds or dense vegetative growth.

FALL AND SPRING SEEDED WHEAT

BAS 183 10 H MUST BE APPLIED TO FALL SEEDED WHEAT PRIOR TO THE JOINTING STAGE. APPLICATIONS TO SPRING SEEDED WHEAT MUST BE MADE BEFORE WHEAT EXCEEDS THE 5 LEAF STAGE.

TANK MIX TREATMENTS

For control of grasses or additional broadleaf weeds, **BAS 183 10 H** may be tank mixed with the following herbicides. Read and follow the label of each tank mix product used for precautionary statements, directions for use, weeds controlled and geographic and other restrictions.

BROADCAST RATE PER TREATED ACRE¹Apply 4 - 8 fluid ounces **BAS 183 10 H Herbicide** with:

Product	Active Ingredient	Formulation	Amount of Product Per Acre
2,4-D amine or ester	2,4-D	4 lb/gal	8 - 12 fluid oz (.25- .375 lb ai/A) ²
MCPA amine or ester	MCPA	4 lb/gal	8 - 12 fluid oz (.25- .375 lb ai/A) ²
Ally	metsulfuron-methyl	60% DF	1/10 oz
Amber	triasulfuron	75% DF	0.28 oz
Express	thifensulfuron + tribenuron methyl	75% DF	1/6 oz
Finesse	chlorsulfuron + metsulfuron-methyl	75% DF	1/3 oz
Glean	chlorsulfuron	75% DF	1/6 oz
Harmony Extra	thifensulfuron + tribenuron methyl	75% DF	1/3 oz
Buctril	bromoxynil ³	2 lb/gal	1 - 1.5 pt
Bronate®	bromoxynil + MCPA	4 lb/gal	1 - 2 pt
Curtail®	clopyralid + 2,4-D	2.38 lb/gal	2 - 2 2/3 pt
Stinger®	clopyralid	3 lb/gal	1/4 - 1/3 pt
Karmex® ⁴	diuron ³	80% DF	1/2 - 1.5 lb
Sencor® ⁴	metribuzin ³	75% DF	1 - 10 oz
Dakota® ⁵	fenoxaprop-ethyl + MCPA	3.1 lb/gal	16 oz
Tiller® ⁵	fenoxaprop-ethyl + MCPA + 2,4-D	2.7 lb/gal	1 - 1.7pt

BAS 183 10 H sprayed on fall seeded wheat variety TAM 107 in Colorado may cause unacceptable crop injury. **BAS 183 10 H** should be used only if crop injury is acceptable. Caution should be used when spraying **BAS 183 10 H** on early maturing fall seeded wheat varieties such as MADISON and WAKEFIELD. Crop staging to verify pre-jointing should be made prior to the application or unacceptable crop injury may occur.

(2) When using formulations other than 4 lb/gal use pounds active/acre listed.

(3) Herbicides with the same active ingredient and/or different formulation may be used.

(4) Tank mixtures for fall seeded wheat only.

(5) Use 4 fluid ounces of **BAS 183 10 H** only. **DO NOT** use if wild oats is the target weed. **DO NOT** use **BAS 183 10 H** as a tank mix treatment with Dakota® or Tiller® on Durum wheat.

SPECIAL USE TANK MIXES FOR SPRING AND FALL SEEDED WHEAT (See footnotes for Applicable Uses)

Apply 6 - 8(1) fluid ounces **BAS 183 10 H Herbicide** with:

Product ²	Active Ingredient	Formulation	Amount of Product Per Acre
2,4-D or MCPA amine	2,4-D or MCPA	4 lb/gal	1 - 2 pt ³ (0.5- 1.0 lb ai/A) ⁴
2,4-D or MCPA ester	2,4-D or MCPA	4 lb/gal	1 - 1.5 pt ³ (.5- .75 lb ai/A) ⁴
Ally	metsulfuron-methyl	60% DF	1/20 - 1/10 oz
Amber	triasulfuron	75% DF	0.14 - 0.28 oz
Express	thifensulfuron + tribenuron-methyl	75% DF	1/12 - 1/6 oz
Finesse	chlorsulfuron + metsulfuron-methyl	75% DF	1/6 - 1/3 oz
Glean	chlorsulfuron	75% DF	1/6 oz
Harmony Extra	thifensulfuron + tribenuron-methyl	75% DF	1/6 - 1/3 oz
Ally + 2,4-D amine or ester ⁵	metsulfuron-methyl + 2,4-D	60%DF + 4 lb/gal	1/20 - 1/10 oz + 8 fluid oz
Amber + 2,4-D amine or ester ⁵	triasulfuron + 2,4-D	75%DF + 4 lb/gal	0.14 - 0.28 oz + 8 fluid oz
Express + 2,4-D amine or ester ⁵	(thifensulfuron + tribenuron-methyl) + 2,4-D	75%DF + 4 lb/gal	1/12 - 1/6 oz + 8 fluid oz
Finesse + 2,4-D amine or ester ⁵	(chlorsulfuron + metsulfuron-methyl) + 2,4-D	75%DF + 4 lb/gal	1/6 - 1/3 oz + 8 fluid oz
Glean + 2,4-D amine or ester ⁵	chlorsulfuron + 2,4-D	75%DF + 4 lb/gal	1/6 oz + 8 fluid oz
Harmony Extra + 2,4-D amine or ester ⁵	(thifensulfuron + tribenuron-methyl) + 2,4-D	75%DF + 4 lb/gal	1/6 - 1/3 oz + 8 fluid oz
Roundup® RT ⁶	glyphosate	3.0 lb/gal	12 - 16 fluid oz

(1) **BAS 183 10 H** may be used at 12 fluid ounces on fall seeded wheat in Western Oregon as a spring application only. In CO, KS, NM, OK and TX up to 16 fluid ounces of **BAS 183 10 H** may be applied on fall seeded wheat after it exceeds the 3 leaf stage for suppression of perennial weeds, such as field bindweed. Applications may be made in the fall following a frost but before a killing freeze. **BAS 183 10 H** may be tank mixed with 2,4-D amine at 8 fluid ounces after wheat begins to tiller. Periods of extended stress, such as cold and wet weather, may enhance the possibility of crop injury. For fall applications only, **DO NOT** use if the potential for crop injury is not acceptable.

(2) **DO NOT** use low rates of sulfonyleurea herbicides, such as Ally, Amber, Express, Finesse, Glean and Harmony Extra on more mature weeds and/or on dense vegetative growth.

(3) Note: For use on Fall Seeded Wheat Only. **DO NOT** Use unless potential crop injury will be acceptable.

(4) When using formulations other than 4 lb/gal use pounds active/acre listed.

(5) For improved control of Russian thistle, flxweed, gromwell, mayweed and fiddleneck.

(6) **BAS 183 10 H Herbicide** may be applied at 4 fluid ounces with Roundup RT or any glyphosate formulation labeled for use as a preplant application to small grains with no waiting period prior to planting. Read and follow label directions of the tank mix product for adjuvant use recommendations.

FALL SEEDED BARLEY

BAS 183 10 H MUST BE APPLIED TO FALL SEEDED BARLEY PRIOR TO THE JOINTING STAGE.

Note: For spring barley varieties that are seeded during the winter months or later, follow the rates and timings given for spring seeded barley.

TANK MIX TREATMENTS

For control of additional broadleaf weeds, **BAS 183 10 H** may be tank mixed with the following herbicides. Read and follow the label of each tank mix product used for precautionary statements, directions for use, weeds controlled and geographic and other restrictions.

BROADCAST RATE PER TREATED ACRE:

Apply 4 - 8 fluid ounces **BAS 183 10 H** with:

Product ¹	Active Ingredient	Formulation	Amount of Product Per Acre
2,4-D amine or ester	2,4-D	4 lb/gal	8 fl oz (0.25 lb ai/A) ²
MCPA amine or ester	MCPA	4 lb/gal	8 - 12 fl oz (0.25 - 0.375 lb ai/A)
Ally	metsulfuron-methyl	60% DF	1/20 - 1/10 oz
Amber	triasulfuron	75% DF	0.14 - 0.28 oz
Express	thifensulfuron + tribenuron-methyl	75% DF	1/12 - 1/6 oz
Finesse	chlorsulfuron + metsulfuron-methyl	75% DF	1/6 - 1/3 oz
Glean	chlorsulfuron	75% DF	1/6 oz
Harmony Extra	thifensulfuron + tribenuron-methyl	75% DF	1/6 - 1/3 oz
Sencor	Metribuzin ³	75% DF	1 - 10 oz
Buctril	bromoxynil	2 lb/gal	1 - 1 1/2 pts
Bronate	Bromoxynil + MCPA	4 lb/gal	3/4 - 1 1/2 pt

- DO NOT** use low rates of sulfonyleureas (Ally, Amber, Express, Finesse, Glean and Harmony Extra) on more mature weeds and/or on dense vegetative growth.
- When using formulations other than 4 lb/gal use pounds active/acre listed.
- Herbicides with the same active ingredient and/or different formulations may be used.

SPRING SEEDED BARLEY

BAS 183 10 H MUST BE APPLIED BEFORE SPRING SEEDED BARLEY EXCEEDS THE 4 LEAF STAGE.

TANK MIX TREATMENTS

For control of additional broadleaf weeds, **BAS 183 10 H** may be tank mixed with the following herbicides. Read and follow the label of each tank mix product used for precautionary statements, directions for use, weeds controlled and geographic and other restrictions.

BROADCAST RATE PER TREATED ACRE:Apply 4-6 fluid ounces **BAS 183 10 H Herbicide** with:

Product ¹	Active Ingredient	Formulation	Amount of Product Per Acre
MCPA amine or ester	MCPA	4 lb/gal	8 – 12 fl oz (0.25 – 0.375 lb ai/A)
Ally	metsulfuron-methyl	60% DF	1/20 – 1/10 oz
Amber	triasulfuron	75% DF	0.14 - 0.28 oz
Express	thifensulfuron + tribenuron-methyl	75% DF	1/12 - 1/6 oz
Finesse	chlorsulfuron + metsulfuron-methyl	75% DF	1/6 - 1/3 oz
Glean	chlorsulfuron	75% DF	1/6 oz
Harmony Extra	thifensulfuron + tribenuron-methyl	75% DF	1/6 - 1/3 oz
Sencor	Metribuzin ³	75% DF	1 - 10 oz
Buctril	bromoxynil	2 lb/gal	1 - 1 1/2 pts
Bronate	Bromoxynil + MCPA	4 lb/gal	3/4 - 1 1/2 pt

- DO NOT** use low rates of sulfonyleureas (Ally, Amber, Express, Finesse, Glean and Harmony Extra) on more mature weeds and/or on dense vegetative growth.
- When using formulations other than 4 lbs/gal use pounds active/acre listed.
- Herbicides with the same active ingredient and/or different formulations may be used.

FALL AND SPRING SEEDED OATS

BAS 183 10 H MUST BE APPLIED BEFORE SPRING SEEDED OATS EXCEED THE 5 LEAF STAGE. APPLICATIONS TO FALL SEEDED OATS MUST BE MADE PRIOR TO THE JOINTING STAGE.

TANK MIX TREATMENTS

For control of additional broadleaf weeds, **BAS 183 10 H** may be tank mixed with the following herbicides. Read and follow the label of each tank mix product used for precautionary statements, directions for use, weeds controlled and geographic and other restrictions.

BROADCAST RATE PER TREATED ACRE:Apply 4 - 8 fluid ounces **BAS 183 10 H** with:

Product	Active Ingredient	Formulation	Amount of Product Per Acre
MCPA Amine or Ester	MCPA	4 lb/gal	8 - 12 fluid oz (.25-.375 lb ai/A)(1)

(1) When using formulations other than 4 lb/gal use pounds active/acre listed.

PREPLANT/PREEMERGENCE IN NO-TILLAGE CORN

Applications of **BAS 183 10 H** may be made before, during, or after planting to emerged and actively growing broadleaf weeds. Apply **BAS 183 10 H** at 2 pints per treated acre on medium or fine textured soils containing 2% or greater organic matter. Use 1 pint per treated acre on coarse textured soils (sand, sandy loam, and loamy sand) or medium and fine textured soils with less than 2% organic matter.

When planting into a legume sod (e.g., alfalfa or clover), apply **BAS 183 10 H** after 4-6 inches of regrowth has occurred.

PREEMERGENCE IN CONVENTIONAL OR REDUCED TILLAGE CORN

BAS 183 10 H Herbicide may be applied after planting and prior to corn emergence. Application at 2 pints per treated acre may be made to medium or fine textured soils which contain 2% or greater organic matter. **DO NOT** apply to coarse textured soils (sand, sandy loam, and loamy sand) until after crop emergence (see **Early Postemergence** uses below).

Preemergence application of **BAS 183 10 H** does not require mechanical incorporation to become active. A shallow mechanical incorporation is recommended if application is not followed by adequate rainfall or sprinkler irrigation. Avoid tillage equipment (e.g., drags, harrows) which concentrates treated soil over seed furrow.

EARLY POSTEMERGENCE

(ALL TILLAGE SYSTEMS)

(Spike through 8 inch tall corn)

BAS 183 10 H at 2 pints per treated acre may be applied during the period from corn emergence through the five leaf stage or 8 inches tall, whichever comes first. Reduce the rate to 1 pint per treated acre if corn is growing on coarse textured soils (sand, sandy loam, loamy sand). See Late Postemergence applications given below if the 6th true leaf is emerging from whorl or corn is greater than 8 inches tall.

LATE POSTEMERGENCE

(ALL TILLAGE SYSTEMS)

(8 to 36 inch tall corn)

Application of **BAS 183 10 H** at 1 pint per treated acre may be made from 8 to 36 inch tall corn or 15 days before tassel emergence, whichever comes first. For best performance, make applications when weeds are less than 3 inches tall.

Make directed spray application when: (1) corn leaves prevent proper spray coverage; (2) sensitive crops are growing nearby; (3) tank mixing with 2,4-D.

DO NOT apply **BAS 183 10 H** when soybeans are growing nearby if any of these conditions exist:

- corn is more than 24 inches tall
- soybeans are more than 10 inches tall
- soybeans have begun to bloom

OVERLAY (SEQUENTIAL) TREATMENTS

BAS 183 10 H may be applied to ground previously treated with one or more of the following herbicides:

acetochlor (Harness® Plus, Surpass®)

alachlor (Lasso®, Lasso MT®, Partner®)

Atrazine

Bicep®

Broadstrike®

Bronco®

Bullet®

butylate (Sutan+®/Genate®)

Clarity®

cyanazine (Bladex®)

dimethenamid (Frontier®)

EPTC (Eradicane®)

Extrazine II®

Guardman®

glyphosate (Roundup®)

Lariat®

Marksman®

metolachlor (Dual®)

paraquat (Gramoxone®)

pendimethalin (Prowl®)

propachlor (Ramrod®)

simazine (Princep®)

Surpass® 100

Apply **BAS 183 10 H** at 1 pint per treated acre to ground previously treated with full rates of CLARITY or MARKSMAN Herbicides. Allow at least 2 weeks between applications.

READ AND FOLLOW LABEL DIRECTIONS FOR EACH OF THE ABOVE PRODUCTS.

TANK MIX TREATMENTS FOR CORN

BAS 183 10 H may be tank mixed with one or more of the following herbicides for control of grasses or additional broadleaf weeds. Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, and other restrictions.

RATES AND TIMINGS

BAS 183 10 H Herbicide Plus	Preplant/ Preemergent (No Tillage Corn) Directions	Preemergent (Conventional or Reduced Tillage Corn)	Early Post-Emergent (All Tillage Systems)	Late Postemergent (All Tillage Systems)	Additional
ACCENT® (nicosulfuron)	-	-	1/2-1 ounce ai/A	1/2-1 ounce ai/A (To improve spray coverage of weeds and reduce risk of corn injury, use drop pipes to direct spray beneath corn leaves when corn is greater than 8 inches tall.)	Application may be made to emerged weeds before corn is greater than 24 inches tall. Use non-ionic surfactant at .25% (V/V) with this tank mixture.
Atrazine	1 1/4-2 lbs ai/A	1 1/4-2 lbs ai/A	1 1/4-2 lbs ai/A Crop oil concentrates may be used with this mixture if corn is 5 inches or less in height.	1 1/4-2 lbs ai/A DO NOT apply if corn is greater than 12 inches tall.	Application may be made before grasses are 1 1/2" tall. Follow all state and federal restrictions pertaining to atrazine applications.
Beacon® (primisulfuron)	-	-	0.31 - 0.62 ounce ai/A	0.31 - 0.62 ounce ai/A (To improve spray coverage of weeds and reduce risk of corn injury, use drop pipes to direct beneath corn leaves when corn is greater than 8 inches tall.)	Application may be made to emerged weeds when corn is 4 to 24 inches tall. Use non-ionic surfactant at .25% (V/V) with this tank mixture.
Bladex® (cyanazine)	1 1/4-4 lbs ai/A	1 1/4-4 lbs ai/A	1/4 - 2 lbs ai/A (use the 90 DF formulation only, after corn emergence.)	-	Application may be made before grasses are 1 1/2 inches tall, and before corn is beyond the 4 leaf stage.
DUAL® (metolachlor)	1 1/2-3 lbs ai/A	1 1/2-3 lbs ai/A (use only on fine or medium textured soils with 2 1/2% or greater organic matter)	1 1/2-3 lbs ai/A	-	Application may be made before grasses reach the 2 leaf stage and before corn is greater than 3 inches tall.
Frontier (dimethenamid)	13-25 fl oz/A	13-25 fl oz/A (use only on fine or medium textured soils with 2.5% or greater organic matter)	13-25 fl oz/A	-	Application may be made up to 8 inch tall corn. This treatment must be combined with a herbicide that provides postemergence control of grass weeds if they are greater than 1 inch tall at the time of application.

RATES AND TIMINGS (continued)

BAS 183 10 H Herbicide Plus	Preplant/ Preemergent (No Tillage Corn) Directions	Preemergent (Conventional or Reduced Tillage Corn)	Early Post- Emergent (All Tillage Systems)	Late Postemergent (All Tillage Systems)	Additional
Frontier 6.0 (dimethenamid)	16-32 fl oz/A	16-30 fl oz/A (use only on fine or medium textured soils with 2.5% or greater organic matter)	16-32 fl oz/A	-	Application may be made up to 8 inch tall corn. This treatment must be combined with a herbicide that provides postemergence control of grass weeds if they are greater than 1 inch tall at the time of application.
Gramoxone® (paraquat)	1/4-1 lb ai/A	1/4-1 lb ai/A	-	-	Application may be made to emerged weeds but prior to corn emergence.
Harness Plus or Surpass (acetochlor)	1 1/2-3 lbs ai/A	1 1/2-3 lbs ai/A	Use only on fine or medium textured soils with 2.5% or greater organic matter.	-	Application should be made prior to corn emergence
Lasso® (alachlor)	1 1/2-4 lbs ai/A	1 1/2-4 lbs ai/A (use only on fine textured soils with greater than 2 1/2% organic matter)	1 1/2-4 lbs ai/A	-	Application may be made before grasses reach the 2 leaf stage and before corn is greater than 3 inches tall. If microencapsulated forms of alachlor are used (Lasso MT, Partner), applications must be made prior to grass emergence.
Princep® (simazine)	2.0-3.0 lbs ai/A	2.0-3.0 lbs ai/A	-	-	Application may be made prior to corn or weed emergence.
Prowl® (pendimethalin)	-	3/4-1 1/2 lbs ai/A (Use only on fine or medium textured soils with 2 1/2% or greater organic matter.)	3/4-1 1/2 lbs ai/A	-	Application may be made immediately after planting, but prior to weed emergence. Corn should not be beyond the 2- leaf stage of growth.
Roundup® (glyphosate)	1.0-3.0 lbs.ai/A	1.0-3.0 lbs.ai/A	-	-	Application may be made to emerged weeds but prior to corn emergence.
Tough 3.75 EC pyridate	-	-	0.47 lb ai/A	0.47-0.94 lb ai/A	Applications may be made to emerged, actively growing weeds. (Directed applications are recommended when corn is large enough to prevent proper spray coverage.
2,4-D	1/4-1/2 lbs ai/A	1/4-1/2 lbs ai/A	Not recommended	1/8 lbs ai/A	Drop pipes are to be used when corn height is 8 inches or greater. Keeping the spray off the corn leaves and out of the whorl will reduce the likelihood of crop injury and improve spray coverage of weed foliage.

**PREPLANT DIRECTIONS
(POST HARVEST/FALLOW/CROP STUBBLE/SET-A-SIDE)
FOR BROADLEAF WEED CONTROL
BEFORE WHEAT, CORN, SORGHUM, SOYBEANS AND COTTON**

IMPORTANT

Observe all precautions. Read and follow mixing and application instructions.

WEEDS CONTROLLED

BAS 183 10 H Herbicide may be applied alone or in tank mix combinations with other herbicides registered for this use.

BAS 183 10 H can be applied either POST HARVEST in the fall, spring or summer during the FALLOW period or to CROP STUBBLE/SET-A-SIDE acres. **BAS 183 10 H**, when applied at the recommended rates, will control many ANNUAL broadleaf weeds, see the WEEDS CONTROLLED section under small grains. In addition, **BAS 183 10 H** will control or suppress the following BIENNIAL and PERENNIAL broadleaf weeds:

Alfalfa (1)	Nightshade, Silver
Artichoke, Jerusalem Bindweed, Field	Redvine
Bindweed, Hedge	Smartweed, Swamp
Blueweed, Texas	Sowthistle, Perennial (1)
Bursage (Bur Ragweed,	Spurge, Leafy
Povertyweed, Lakeweed) (1)	Thistle, Bull
Dandelion,	Thistle, Canada (2)
Common (1)	Thistle, Milk
Dock, Curly (1)	Thistle, Musk
Dogbane, Hemp	Thistle, Plumeless
Garlic, Wild (2)	Thistle, Scotch
Horsenettle, Carolina Knapweed, Diffuse	Trumpet creeper (Buckvine)
Knapweed, Spotted	

(1) Perennials may be controlled using **BAS 183 10 H** at rates lower than those recommended for other listed perennial weeds. (See RATES AND TIMINGS under this heading).

(2) See the SPECIAL TANK MIX TREATMENTS section under this heading for specific control program for these weeds.

RATES AND TIMINGS

Apply **BAS 183 10 H** as a broadcast or spot treatment to emerged and actively growing weeds after crop harvest (post harvest) and before a killing frost or in the fallow cropland or crop stubble the following spring or summer. Agriculturally approved spray additives, such as surfactants or oils, may be used to enhance spray coverage and the herbicide's penetration of weed foliage. See CROPPING RESTRICTIONS for recommended interval between application and planting to prevent crop injury.

For best performance, make application when ANNUAL weeds are less than 6 inches tall, when BIENNIAL weeds are in the rosette stage and to PERENNIAL weed regrowth in late summer or fall following a mowing or tillage treatment. Most effective control of upright perennial broadleaf weeds, such as Canada thistle and Jerusalem artichoke, occurs if application is made when the majority of weeds are 8 inches or taller. Viney perennial broadleaf weeds, such as field bindweed and hedge bindweed, are best controlled when weeds are in or beyond the full bloom stage.

Avoid disturbing treated areas following application. Treatments may not kill weeds which develop from seed or underground plant parts, such as rhizomes or bulblets, after the effective period for **BAS 183 10 H**. For seedling control, a follow-up program or other cultural practices could be instituted. For small grain in-crop uses of **BAS 183 10 H**, see the RATES AND TIMINGS section under the SMALL GRAINS heading for details.

BAS 183 10 H HERBICIDE RATES PER TREATED ACRE:

Weed Type	Amount of Product Per Acre
Annual	1/2 - 2 pts (8 - 32 fluid oz.)
Biennial	2 - 4 pts (32 - 64 fluid oz.)
Perennial	2 - 8 pts (32 - 128 fluid oz.)
Perennial suppression	2 - 4 pts (32 - 64 fluid oz.)
Noted (1) perennials	4 - 8 pts (64 - 128 fluid oz.)
Other perennials	8 pts (128 fluid oz.)

Retreatments may be made as needed; however, **DO NOT** exceed a total of 8 pints of **BAS 183 10 H** per treated acre during any given fallow period.

TANK MIX TREATMENTS

BAS 183 10 H may be tank mixed with one or more of the following herbicides for control of grasses or additional broadleaf weeds. Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, weeds controlled and geographic or other restrictions.

BAS 183 10 H BROADCAST RATE PER TREATED ACRE FOR ANNUAL WEED CONTROL:

Apply 1/2 - 2 pints **BAS 183 10 H** with:

Product	Active Ingredient	Formulation	Amount of Product Per Acre
Aatrex 4L®(1)	atrazine	4 lb/gal	1/2 - 6 pts
Aatrex Nine-O®(1)	atrazine	90% DF	1/2 - 3.3 lbs
Amber®(2)	triasulfuron	75% DF	0.28 - 0.35 oz
Ally(2)	metsulfuron-methyl	75% DF	1/10 oz
Bladex(1)®	cyanazine	90% DF	2.7 - 3.6 lbs
Cyclone®	paraquat	2.0 lb/gal	1 - 2 pts
Fallow Master®	glyphosate + dicamba	1.6 lb/gal	22 - 44 fl oz
Finesse(2)	chlorsulfuron + metsulfuron-methyl	75% DF	.2 oz
Gramoxone® Extra	paraquat	2.5 lb/gal	1.5 pts
Kerb(1)®	pronamide	50-W	1/2- 1.0 lb
Landmaster BW®	glyphosate + 2,4-D	2.4 lb/gal	27 - 54 fl oz
Roundup® or Roundup RT	glyphosate	3 lb/gal	8 - 48 fl oz
Sencor DF(1)	metribuzin	75%DF	1/2 - 1 lb
Sencor 4(1)	metribuzin	4 lb/gal	3/4 - 1 1/2 pts
2,4-D	2,4-D	4 lb/gal	1-2 pts (0.5 - 1 lb ai/A)(3)

- (1) Tank mixes of **BAS 183 10 H** with these products may be subject to special restrictions. See the Product Label of the tank mix partner for intended use rates, restrictions and other precautions.
- (2) When tank mixing with sulfonyleurea herbicides refer to the product label for rates and restrictions. Use a surfactant of at least 80% active ingredient at the rate of 1 - 2 quarts/100 gallons of spray or not more than 0.25 - 0.5% by volume. Use the highest rate of surfactant when using the lower rate ranges of the tank mix and/or when treating more mature weeds or dense vegetative growth. Sulfonyleurea resistant weeds may not be controlled by tank mixes of **BAS 183 10 H** and a sulfonyleurea. Refer to the **BAS 183 10 H** tank mix section for alternative tank mixes.
- (3) When using formulations other than 4 lb/gal use pounds active/acre listed.

BAS 183 10 H HERBICIDE BROADCAST RATE PER TREATED ACRE FOR BIENNIAL AND PERENNIAL WEED CONTROL:

Apply 2 to 8 pints of **BAS 183 10 H** with:

Product	Active Ingredient	Formulation	Amount of Product per Acre
Curtail®	Clopyralid + 2,4-D	2.38 lb/gal	2-4 pts
2,4-D	2,4-D	4 lb/gal	2 - 6 pts (1.0 – 3 lb ai/A) (1)
Landmaster BW	Glyphosate + 2,4-D	2.4 lb/gal	54 fl oz
Roundup	Glyphosate	3.0 lb/gal	1-5 qts
Roundup RT	Glyphosate	3.0 lb/gal	1-5 qts
Tordon 22K®	Picloram	2 lb/gal	1/2 - 1 pt

1) When using formulations other than 4 lb/gal use pounds active/acre listed.

SPECIAL TANK MIX TREATMENTS

For suppression of perennial weeds, apply 1 - 2 pints of **BAS 183 10 H** with 8 - 16 fluid ounces of Roundup Herbicide or Roundup RT per treated acre.

For wild garlic control, apply 2 pints **BAS 183 10 H** with 3 pints of 2,4-D LV Ester (4 lb/gal) per treated acre. Apply when wild garlic is 4 to 8 inches tall.

For Canada thistle control, use **BAS 183 10 H**, **BAS 183 10 H** plus Curtail, or **BAS 183 10 H** plus Roundup Herbicide or Roundup RT tank mix treatments.

Application may be made during fallow periods for control of volunteer barley, bulbous bluegrass, downy brome, jointed goatgrass, common rye and volunteer wheat when they are actively growing. Use 2 pints **BAS 183 10 H** with 1/2 to 1 lb Kerb 50W. Fall seeded wheat may be planted 9 months or more after application. For best performance, make application between mid-October and mid-December, prior to soil freeze up.

During fallow periods, apply **BAS 183 10 H** plus Landmaster BW or Fallowmaster Herbicide to give improved control of kochia, wild buckwheat, prickly lettuce, field bindweed and Canada thistle. Use 1/4 - 1/2 pint of **BAS 183 10 H** plus 22 - 54 fluid ounces of Landmaster BW or Fallowmaster Herbicide for annual weed control or 1/2 - 1 pint **BAS 183 10 H** plus 22 - 54 fluid ounces of Landmaster BW or Fallowmaster Herbicide for perennial weed suppression.

CROPPING RESTRICTIONS

The following recommendations are based on **BAS 183 10 H** use rates up to 8 pints (2 lbs/ai) per treated acre.

CORN, COTTON, SORGHUM and SOYBEANS may be planted in the spring following applications made during the previous year. If less than 1 inch of rainfall occurs between application and the first killing frost, treated areas should be cultivated to allow herbicide to come in contact with moist soil. Cultivation may take place before or immediately after ground thaw.

Soybean or cotton injury may occur if the interval between application and planting is less than specified. In areas with greater than 30 inches of rainfall, delay planting for 15 days per pint of **BAS 183 10 H** per treated acre. In areas with less than 30 inches of rainfall, delay planting for 23 days per pint of **BAS 183 10 H** per treated acre. Exclude days when ground is frozen.

DO NOT use treated cotton as a livestock feed item.

WHEAT may be planted in the fall or spring following applications. Also, spot applications may be made any time prior to crop emergence if crop injury can be tolerated in treated areas. Wheat injury may occur if the interval between application and planting is less than specified.

East of the Mississippi River, the interval is 10 days per pint of **BAS 183 10 H** per treated acre or 1 day per 1.5 ounces. Moisture is essential for **BAS 183 10 H** degradation. Exclude days when ground is frozen.

West of the Mississippi River, the interval is 23 days per pint of **BAS 183 10 H** per treated acre or 1 1/2 days per ounce. Moisture is essential for **BAS 183 10 H** degradation. Exclude days when ground is frozen.

Following a normal harvest of barley, oats, or wheat, any rotational crop may be planted. If the interval before harvest is shortened, such as when cover crops will be plowed under, **DO NOT** follow up with the planting of a sensitive crop.

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**CONTROL OF PERENNIAL BROADLEAF WEEDS IN CROPLAND OR FALLOW
(SPOT APPLICATION ONLY)**

**For Use Only in the States of
Colorado, Idaho, Kansas, Montana, Nebraska, Nevada,
North Dakota, Oregon, South Dakota, Utah, Washington and Wyoming**

IMPORTANT

Observe all precautions. Read and follow mixing and application instructions.

DO NOT treat subirrigated cropland or areas where the soil remains saturated with water throughout the year.

Make only one application of **BAS 183 10 H Herbicide** per year.

WEEDS CONTROLLED

BAS 183 10 H, when applied at recommended rates, will control many broadleaf weeds including:

- Bindweed, Field
- Russian
- Dock, Broadleaf
(Bitterdock)
- Dock, Curly
- Knapweed, Black
- Knapweed,
- Ragwort, Tansy
- Spurge, Leafy
- Thistle, Canada

RATE S AND TIMINGS

BAS 183 10 H may be applied at any time following a crop harvest to stubble fallow or other cropland. Application should be made when weeds are actively growing and prior to a killing frost.

Apply 4 quarts (2 lbs a.i.) of **BAS 183 10 H** per treated acre. Application may be made up to one month prior to the planting of wheat.

Note: DO NOT use unless injury to wheat or rotated barley will be acceptable.

Barley, oats, corn, sorghum (milo), annual or perennial grass crops may be planted into treated areas one year after application. Crops grown for seed (other than perennial grass seed) should not be planted into treated areas until three years after application. **DO NOT** plant broadleaf crops such as alfalfa, beans, peas, potatoes, or sugar beets into treated areas until two years after application.

In most cases, treatments will not kill perennial weed seedlings which germinate from seed one or two years after treatment. Once the effect of the chemical has been lost, a follow-up program for seedling control or other cultural practices should be instituted.

GRASS SEED CROPS

Grasses Grown for Seed such as Bermuda grass, Bluegrass, Fescue and Ryegrass

IMPORTANT

Observe all precautions. Read and follow cleaning, mixing and application instructions.

Refer to the SMALL GRAINS SECTION FOR GRAZING RESTRICTIONS IF GRASS SEED FIELDS ARE GROWN FOR PASTURE OR HAY.

DO NOT use on bentgrass unless possible crop injury can be tolerated.

WEEDS CONTROLLED

BAS 183 10 H Herbicide will provide control or suppression of annual broadleaf weeds listed below. For improved control of listed weeds plus additional weeds, it is recommended that **BAS 183 10 H** be applied in a tank mix with other herbicides.

Alfalfa (1)	Hemlock, Poison
Bedstraw, Catchweed	Knapweed, Russian (1)
Bindweed, Field	Knawel
Buttercup, Corn	Knotweed, Prostrate
Buttercup, Creeping	Kochia
Buttercup, Western Field	Ladysthumb
Catchfly, Nightflowering	Lambsquarters, Common
Chamomile, Corn	Lettuce, Prickly
Chickweed, Common	Mayweed (Dogfennel)
Chickweed, Mouseear	Ragwort, Tansy
Clover	Sorrel, Red (Sheep Sorrel)
Cockle, White	Sowthistle, Annual
Dock, Broadleaf	Starwort, Little
Dock, Curly	Thistle, Canada (1)

(1) Top growth only.

RATES AND TIMINGS

Apply 1 to 2 pints of **BAS 183 10 H** per treated acre on SEEDLING GRASS after the crop reaches the 3 - 5 leaf stage. Apply up to 4 pints of **BAS 183 10 H** on well-established Perennial grass. **DO NOT APPLY AFTER THE GRASS SEED CROP BEGINS TO JOINT.** For best performance, make applications when weeds are in the 2-4 leaf stage and rosettes are less than 2 inches across. Use the higher level of listed rate ranges when treating more mature weeds or dense vegetative growth.

TANK MIX TREATMENTS

For control of grasses or additional broadleaf weeds, **BAS 183 10 H** may be tank mixed with all broadleaf herbicides registered for use in Grass Seed Production. Read and follow the label of each tank mix product used for precautionary statements, directions for use, weeds controlled and geographic and other restrictions.

BROADCAST RATE PER TREATED ACRE:

Apply 1 to 4 pints **BAS 183 10 H Herbicide** with:

Product	Active Ingredient	Formulation	Amount of Product Per Acre
2,4-D Amine or Ester	2,4-D	4 lb/gal	1 - 4 pts (.5 - 2.0 lb ai/A)(1)
MCPA Amine	MCPA	4 lb/gal	1 - 2 pts (.5 - 1.0 lb ai/A)(1)
Buctril	Bromoxynil (2)	2 lb/gal	1 - 2 pts
Curtail	Clopyralid + 2,4-D	2.38 lb/gal	1 3/4 - 4 pts
Karmex	diuron(2)	80%DF	2 - 4 lbs
Stinger	Clopyralid	3 lb/gal	1/4 - 1 pt

1. When using formulations other than 4 lb/gal use pounds active/acre listed.
2. Herbicides with the same common name and/or different formulations may be used.

ANNUAL GRASS CONTROL

For suppression of ANNUAL GRASS WEEDS such as:

- Brome, Downy (Cheatgrass)
- Brome, Rippgut
- Fescue, Rattail
- Windgrass

Apply up to 8 pints of **BAS 183 10 H Herbicide** per treated acre in the fall or late summer after harvest and burning of established grass seed crops. Applications should be made immediately following the first irrigation when the soil is moist and before weeds have more than 2 leaves.

GEOGRAPHICAL RESTRICTIONS

For use in the State of Idaho, Union County Oregon, and the counties of Spokane, Whitman, Lincoln, Adams, Garfield, Asotin, Columbia, Walla Walla, Stevens, Ferry and Franklin in the State of Washington.

SUGARCANE

Observe all precautions on pages xxx. Read and follow mixing and application instructions on pages xxx.

Consult your local or state authorities for possible application restrictions, especially concerning aerial applications and advice concerning special local use situations.

WEEDS CONTROLLED

BAS 183 10 H, when applied at recommended rates, will control many ANNUAL, BIENNIAL and PERENNIAL broadleaf weeds commonly found in sugarcane. (Refer to GENERAL WEED LIST on pages xxx)

RATES AND TIMINGS

Application of **BAS 183 10 H Herbicide** may be made any time after weeds have emerged and are actively growing but before the close-in stage of sugarcane. Application rates and timings of **BAS 183 10 H** are given below. Use the higher level of listed rate ranges when treating dense vegetative growth.

Broadcast rate for treated acre

Weed Stage and Amount Type	Product	Lbs/ai
Annual, Small, actively growing	1-2 pt	1/4 - 1/2
Established weed growth	2-3 pts	1/2 - 3/4
Biennial	2-4 pts	1/2 - 1
Perennial	4-8 pts	1-2

*Application made over the top of actively growing sugarcane may result in crop injury.

When possible, direct the spray beneath the sugarcane canopy in order to minimize the likelihood of crop injury. The use of directed sprays will also aid in maximizing spray coverage of weed foliage.

Retreatments may be made as needed, however, **DO NOT** exceed a total of 8 pints (2 lbs ai) of **BAS 183 10 H** per treated acre during a growing season.

TANK MIX TREATMENTS

BAS 183 10 H may be tank mixed with one or more of the following herbicides for control of grasses or additional broadleaf weeds. Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, weeds controlled, geographic and other restrictions.

Herbicide	Rates per treated acre (lbs ai)
Ametryn (Evik)	2/5 to 8
Asulam (Asulox)	2 to 3 1/3
Atrazine	2/5 to 4
2,4-D	1/2 to 3*

*Application of **BAS 183 10 H** plus 2,4-D tank mix at the higher listed rate ranges may result in crop injury.

STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE

Store in original container in a well-ventilated area separately from fertilizer, feed and foodstuffs. Avoid cross-contamination with other pesticides. Spillage or leakage should be contained and absorbed with clay granules, sawdust, or equivalent material for disposal.

PESTICIDE DISPOSAL

Triple rinse pesticide from containers and use rinsates in the pesticide application. Wastes which cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL

Plastic or Metal: After triple rinsing (or equivalent), offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities, such as burning of plastic containers. If burned, stay out of smoke.

BULK STORAGE AND DISPOSAL: To be printed on labeling for bulk use only

AGITATE BEFORE USE

STORAGE AND DISPOSAL

DO NOT contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. This product may not be mixed, loaded, or used within 50 feet of all wells including abandoned wells, drainage wells, and sinkholes.

"When the container is empty, replace the cap and seal all opening that have been opened during use; and return the container to the point of purchase, or to a designated location named at time of purchase of this product. This container must only be refilled with this pesticide product. **DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE.** Prior to refilling, inspect carefully for damage such as cracks punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transporting. **DO NOT** transport if this container is damaged or leaking. If the container is damaged, leaking, or obsolete, contact BASF Corporation at 1-800-832-HELP (4357). If not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling. Disposal of this container must be in compliance with state and local regulations."

STORAGE

Ground water contamination may be reduced by diking and flooring of permanent liquid bulk storage sites with an impermeable material.

PESTICIDE DISPOSAL

Pesticide spray mixture or rinsate that cannot be used according to label instructions must be disposed of according to Federal and local procedures under Subtitle C or the Resource Conservation and Recovery Act.

BULK TANK MAINTENANCE

Follow clean-out directions in the Dealer Bulk Handling Guide for **BAS 183 10 H Herbicide** listed under Bulk Storage Tank Requirements.

GENERAL

Consult Federal, State, or local disposal authorities for approved alternative procedures, such as limited burning.

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 use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. All such risks shall be assumed by the Buyer.

BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above. BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL BASF OR THE SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

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NOTIFICATION

FEB 26 2009

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007969-00135.20090202.NVA 2009-04-064-0022
Supersedes: NVA 2003-04-064-0178

BASF Corporation
Research Triangle Park, NC 27709

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