## 69-175 03/04/2002



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

MAR 4 2002

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Melvin M Graben BASF Corporation P.O. Box 13528 Research Triangle Park, NC 27709-3528

Dear Mr. Graben:

Subject:

Revised Labeling

Celebrity Plus Herbicide

EPA Registration No. 7969-175

Your Submission Dated February 14, 2002

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended is acceptable provided that you:

- 1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
  - a. Please note that 40 CFR 156.10(i)(1)(ii) states that only the Directions For Use may appear on printed or graphic matter which accompanies the pesticide (the attached booklet). If all of the Precautionary Statements and First Aid Statements cannot appear on the container label due to size constraints, you should formally submit a request for a size exemption from the regulations.
  - b. Move the Agricultural Use Requirements box immediately below the sentence "....consult the agency responsible for pesticide regulation".
  - c. In Table 1 delete the terms "recommended" and "permitted". These imply endorsement by EPA which is prohibited by 40 CFR 156.10(a)(5)(v). You can use a phrase similar to the following:

#### No use limitation

d. In the "III. Additives" section delete "adjuvant" and reinstate "nonionic surfactant". The term adjuvant implies other compounds not listed on the label could be added during mixing.

e. In the tank mix restriction with chloroaceteamide grass herbicides add a statement similar to the following:

due to crop injury

2. Submit one (1) copy of your final printed labeling before you release the product for shipment.

A stamped copy of the labeling is enclosed for your records. If you have any questions concerning this letter, please contact Mr. James Stone at 703-305-7391.

Sincerely yours,

√Joanne I. Miller

Product Manager (23)

Herbicide Branch

Registration Division (7505C)

Enclosure

**BASF** 

## ACCEPTED with COMMENTS In EPA Letter Dated:

MAR 4 2002

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

# Celebrity Plus

### herbicide

#### For use on field corn

| <b>Active</b> | Ingred    | lient:  |
|---------------|-----------|---------|
| Sodium        | i salt of | dicamba |

| Sodium salt of dicamba* (3,6, dichloro-o-anisic acid)             | 46.6% |
|---|-------|
| Sodium salt of diflufenzopyr*                                     | 18.1% |
| Nicosulfuron: 2-// // // 6-Dimethoxynyrimidin-2-yl\aminocarbonyl\ |       |
| aminosulfonyl))-N, N-dimethyl-3-pyridinecarboxamide               | 10.6% |
| Inert Ingredients;  | 24.7% |
| Total   |       |
|   |       |

\* This product contains 42.4% of 3,6, dichloro-o-anisic acid (dicamba) and 17.0% of 2-(1-[([3,5 difluorophenylamino] carbonyl)-hydrazono] ethyl]-3-pyridinecarboxylic acid (diflufenzopyr)

EPA Reg. No. 7969-175

EPA Establishment No.

KEEP OUT OF REACH OF CHILDREN. CAUTION

See the attached booklet for complete First Aid, Precautionary Statements, Directions For Use, and Conditions of Sale and Warranty.

Net contents: 7.5 pounds (3.4 kilograms)

|                        | FIRST AID  |
|------------------------|--|
| If in eyes             | <ul> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>  |
| If swallowed           | <ul> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul> |
| If on skin or clothing | <ul> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>  |
|                        | 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   |

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
CAUTION. Causes moderate eye irritation. Harmful if
swallowed or absorbed through skin. Avoid contact
h eyes, skin or clothing. May cause skin allergies to
uevelop.

## Personal Protective Equipment (PPE) Applicators and other handlers must wear:

- · Long-sleeved shirt and long pants
- Waterproof gloves
- · Shoes plus socks

Follow the manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washles, use detergent and hot water. Keep and washles separately from other laundry.

#### Engineering Controls Statement

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

#### **User Safety Recommendations**

#### **Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing 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**

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 en disposing of equipment rinse water. Do not apply where/when conditions could favor runoff.

This chemical is known to leach through soil into ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

#### **Ground and Surface Water Protection**

Point source contamination: To prevent point source contamination, do not mix, load this pesticide product within 50 feet of wells (including abandoned wells and drainage wells), sink holes, perennial or intermittent streams and rivers, and natural or impounded lakes and reservoirs. Do not apply pesticide product within 50 feet of wells. This setback does not apply to properly capped or plugged abandoned wells and does not apply to impervious pad or properly diked mixing/loading areas as described below.

Mixing, loading, rinsing, or washing operations performed within 50 feet of a well are allowed only when conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be on or move across the pad. The pad must be self-contained to prevent surface water flow over or from the pad. The pad capacity must be maintained at 110% that of the largest pesticide container or application equipment used on the pad and have sufficient capacity to contain all product spills, equipment or container leaks, equipment wash waters, and rainwater that may fall on the pad. The containment capacity does not apply to vehicles delivering pesticide shipments to the mixing/loading site. States may have in effect additional requirements regarding wellhead setbacks and operational containment.

Care must be taken when using this product to prevent: a) back siphoning into wells, b) spills or c) improper disposal of excess pesticide, spray mixtures or rinsates. Check valves or antisiphoning devices must be used on all mixing equipment.

Movement by surface runoff or through soil: Do not apply under conditions which favor runoff. Do not apply to impervious substrates such as paved or highly compacted surfaces in areas with high potential

for ground water contamination. Ground water contamination may occur in areas where soils are permeable or coarse and ground water is near the surface. Do not apply to soils classified as sand with less than 3% organic matter and where ground water depth is shallow. To minimize the possibility of ground water contamination, carefully follow application rate recommendations.

Movement by water erosion of treated soil: Do not apply or incorporate this product through any type of irrigation equipment nor by flood or furrow irrigation. Ensure treated areas have received at least one-half inch rainfall (or irrigation) before using tailwater for subsequent irrigation of other fields.

#### **Endangered Species Concerns**

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

#### **Directions For Use**

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

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

#### **Agricultural Use Requirements**

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

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of **12 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
- Waterproof gloves
- Shoes plus socks

#### Storage and Disposal

Do not contaminate water, food, or feed by storage or disposal.

**Pesticide Storage:** Store product in the original container only. Store in a cool, dry place.

**Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Improper disposal of excess pesticide, spray mix, or rinsate is a violation of federal law. If these wastes cannot be disposed of according to label instructions, contact the state agency responsible for pesticide regulation or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

#### Container Disposal:

• Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. Do not re-use container.

#### In Case of Emergency

In case of large-scale spillage regarding this product, call:

CHEMTREC 800-424-9300 BASF Corporation 800-832-HELP

In case of medical emergency regarding this product, call:

- Your local doctor for immediate treatment.
- Your local poison control center (hospital).
- BASF Corporation (800-832-HELP)

## Steps to be taken in case material is released or spilled:

Dike and contain the spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal. Keep the spill out of all sewers and open bodies of water.

#### I. General Information

Celebrity® Plus herbicide is intended for postemergence control of a wide spectrum of broadleaf weeds and grasses in field corn including high lysine, waxy, white, or other food-grade corn hybrids (refer to

Table 2. Weeds Controlled).

#### Mode of Action

**Celebrity Plus** is composed of three active ingredients each with a different mode of action. The nicosulfuron component inhibits acetolactate synthase which is a key enzyme in the biosynthesis of branched-chain amino acids and is the primary component for grass control. The diflufenzopyr component is an auxin transport inhibitor and it compliments dicamba which is an auxin antagonist. Together, these are the primary modes of action for broadleaf weed control.

#### **Crop Tolerance**

Many crops are highly sensitive to **Celebrity® Plus** herbicide. All direct or indirect contact (such as spray drift) with crops other than field corn must be avoid
' Corn is generally very tolerant to application of

conditions of crop stress or rapid growth. Crop stress can be caused by drought, poor fertility, other pesticides (i.e., other herbicides) or foliar damage due to hail, wind or insects. Injury can be avoided by agronomic practices that promote good crop growth and minimize stress conditions and especially combinations of stress factors. Crop leaning may occur during periods of rapid growth, but is usually temporary and dissipates within 7 days without subsequent yield reduction.

Corn growing under stress conditions such as drought, poor fertility, or foliar damage due to hail, wind or insects, can exhibit various injury symptoms that may be more pronounced if herbicides are applied.

#### Joil Insecticide Interaction Information

Before using **Celebrity Plus**, ensure that it is compatible with any soil insecticides previously applied to the corn crop (refer to use advisories given in **Table 1.**)

#### Herbicide-Resistant Field Corn

Celebrity Plus may be used on fields treated with Counter® 15G or Counter® CR (applied in-furrow, T-surface-banded) if the field has been planted with an ..dazolinone-resistant ("IR" or "IMR") hybrid corn such as Pioneer 3377 IR, Pioneer 3180IR, etc.

Table 1. Use Advisory for Celebrity Plus due to interaction with corn soil insecticides on conventional Field Corn or Imidazolinone Tolerant (IT) Hybrids.

| Counter® 15G  All labeled methods  Counter® CR  In furrow at planting, over row at cultivation  Counter® CR  T-band or Surface band  Lorsban®  All labeled methods  All labeled methods  Fortress®,  All Permitted use | Soil<br>Insecticides                   | Application<br>Method<br>for Soil<br>Insecticide | Use<br>Advisory |
|--|--|--|-----------------|
| planting, over row at cultivation  Counter® CR T-band or Surface band  Lorsban® All labeled methods  Thimet® All labeled methods  Fortress®, All Permitted use   | Counter® 15G                           | ,  | Do not use      |
| Surface band  Lorsban* All labeled methods  Thimet* All labeled methods  Fortress*, All Permitted use  | Counter* CR                            | planting, over row at                            | Do not use      |
| methods  Thimet* All labeled Recommended use methods  Fortress*, All Permitted use   | Counter® CR                            |  | Recommendeduse  |
| methods  Fortress*, All Permitted use  | orsban*                                |  | Permitted use   |
| · · · · · · · · · · · · · · · · · · ·  | Γhimet*                                |  | Recommended use |
|  | <b>Aztec</b> ®, and<br>her non-organo- | 1  | Permitted use   |

#### **Herbicide Tolerance**

When herbicides with the same mode of action are used repeatedly over several years to control the same weed species in the same field, naturally-occurring tolerant weed biotypes may survive a correctly applied herbicide treatment, propagate, and become dominant in that field. These tolerant weed biotypes may not be adequately controlled. Cultural practices such as tillage, preventing weed escapes from going to seed, and using herbicides with different modes of action within and between crop seasons can aid in delaying the proliferation and possible dominance of herbicide tolerant weed biotypes.

#### **Integrated Pest Management**

This product may be used as part of an Integrated Pest Management (IPM) program which can include biological, cultural, and genetic practices aimed at preventing economic pest damage. Application of this product should be based on IPM principles and practices including field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop systems in your area.

#### **Cleaning Spray Equipment**

Clean application equipment thoroughly by using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions and triple rinsing the equipment before and after applying this product.

#### II. Application Instructions

For best performance, apply Celebrity® Plus herbicide to actively growing grass weeds that are within the height ranges specified in Table 2. Refer to Table 2. Weeds Controlled for a list of weed species controlled and best application timing based on weed size. The most effective control will result from making postemergence applications of **Celebrity Plus** early. Delaying application permits weeds to exceed the maximum size stated and may lead to inadequate control. Applications made to weeds larger than those listed on this label may vary from complete control to suppression. Level of control will depend on the weed species, stage of growth, and environmental conditions. Due to the unplanned nature of rescue applications, choices must be made between the risks that arise from applications made beyond the proper time for Celebrity Plus use, and the effects of season-long weed competition or harvest complications. These choices must balance risks from improperly timed Celebrity Plus use that include, but are not limited to: • Yield loss due to competition: Research indicates competition from dense infestations of foxtail exceeding 4" tall may reduce corn yields. Applications to foxtail

- Yield loss due to competition: Research indicates competition from dense infestations of foxtail exceeding 4" tall may reduce corn yields. Applications to foxtail and other annual broadleaf weeds and grasses that exceed the sizes stated on the label increases the risk of yield losses due to prolonged competition with the crop even though control may be acceptable.
- Incomplete control of weeds at growth stages beyond labeled size: Applications to weeds that exceed the labeled sizes can result in reduced control. This incomplete control may reduce corn yield.
- Incomplete weed control due to herbicide stress: Weeds under stress from previous herbicide applications may not be actively growing and susceptible to **Celebrity Plus**. This stress may reduce weed control in "rescue" situations.

For later-emerging weeds, a second application at the same rate or a timely cultivation may be required. Split applications may be made with a minimum of 15 days between sequential applications of **Celebrity Plus**. Do not exceed 9.4 ounces of **Celebrity Plus** per treated acre per crop year.

#### Cultivation

Do not cultivate within 10 days before or 7 days after applying **Celebrity Plus**. Cultivating 7-14 days after application may help control suppressed weeds, weeds beyond maximum size at application, or weeds that emerge after applying

#### **Ground Application (Banding)**

Follow **Ground Application (Broadcast)** instructions for band applications. When applying **Celebrity Plus** by banding, determine the amount of herbicide and water volume needed using the following formula:

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

Bandwidth in inches

X Broadcast = Banding water volume per acre = volume per acre

## Ground Application Methods and Equipment (Broadcast)

**Water Volume:** Use a minimum of 10 gallons of spray solution per acre.

**Application Equipment:** Do not use flood, hollow cone, whirl chamber, or controlled droplet applicator (CDA) nozzles as erratic coverage can result in inconsistent weed control. Refer to the nozzle manufacturer's directions for recommended position of nozzle in respect to the crop.

#### **Spray Drift Management**

The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions. AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

#### Importance of Droplet Size

The most effective way to reduce drift potential is to apply large droplets (>200 microns). The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. APPLYING LARGER DROPLETS REDUCES DRIFT POTENTIAL, BUT MAY NOT PREVENT DRIFT IF APPLICATIONS ARE MADE IMPROPERLY OR UNDER UNFAVORABLE ENVIRONMENTAL CONDITIONS! See **Wind**,

Temperature and Humidity, and Temperature Inversions sections of this label.

#### Controlling Droplet Size - General Techniques

- **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 A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.
- 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.

#### Table 2. Weeds Controlled

**Annual and Perennial Grasses:** 

For best performance, apply **Celebrity® Plus** when grasses are actively growing and in the height range indicated for those listed below:

| Grasses   | Height Range  | Grasses   | Height Range  |
|---|---|---|---|
| arnyardgrass Broadleaf Signalgrass Cupgrass, Woolly Foxtail, Bristly , Giant , Green , Yellow Itchgrass Johnsongrass (seedling) Millet, Wild Proso Oats, Wild | 2-4"<br>1-2"<br>2-4"<br>2-4"<br>2-4"<br>2-4"<br>2-6"<br>4-12"<br>1-4"<br>2-4" | Panicum, Browntop , Fall , Texas Ryegrass, Italian Sandbur, Field , Longspine Shattercane Sorghum Almum Johnsongrass (rhizome) Quackgrass | 1-3" 2-4" 1-3" 2-6" 1-3" 1-3" 4-12" 4-12" 8-18" 4-10" |

**Annual Broadleaf Weeds:** 

For best performance, apply **Celebrity Plus** to emerged and actively growing annual broadleaf weeds. For the broadleaf weeds listed below, **Celebrity Plus** will also control triazine-tolerant or ALS-tolerant biotypes that may have developed:

| Beggarweed, Florida   | Mallow, Common           | Pigweed, Amaranth       | Smartweed, Green         |
|-----------------------|--------------------------|-------------------------|--------------------------|
| Buckwheat, Wild       | , Venice                 | , Rough                 | , Pennsylvania           |
| Buffalobur            | Marestail                | , Smooth                | Smellmelon               |
| Burclover, California | Morningglory, Entireleaf | , Tumble                | Sowthistle               |
| Rurcucumber           | , lvyleaf                | Puncturevine            | Spikeweed, Common        |
| irpetweed             | , Pitted                 | Purslane, Common        | Spanish needles          |
| ı Chickweed, Common   | , Smallflower            | Ragweed, Common         | Spurge, Prostrate        |
| Clovers (Annual)      | , Tall                   | , Giant (Buffaloweed)   | Sunflower, Common (Wild) |
| Cocklebur, Common     | Mustard, Tansy           | , Lance-Leaf            | , volunteer `            |
| Croton, Tropic        | , Wild                   | Rubberweed, Bitter      | Thistle, Russian         |
| Devil's Claw          | , Yellowtops             | (Bitterweed)            | Velvetleaf               |
| Jimsonweed            | Nightshade, Black        | Sesbania, Hemp          | Waterhemp, Common        |
| Knotweed              | , Hairy                  | Shepherdspurse          | , Tall                   |
| Kochia                | Pigweed, Prostrate       | Sicklepod               |                          |
| Ladysthumb            | , Redroot                | Sida, Prickly (Teaweed) |                          |
| Lambsquarters, Common | , Spiny                  |                         |                          |

Perennial Broadleaf Weeds:

lebrity Plus will also provide top growth suppression when applied as directed to perennial broadleaf weed species listed below. For best performance, apply Celebrity Plus to emerged and actively growing perennial broadleaf weeds.

| Alfalfa              | Dandelion, Common            | Milkweed, Climbing     | Pokeweed         |
|----------------------|------------------------------|------------------------|------------------|
| Artichoke, Jerusalem | Dock, Broadleaf (Bitterdock) | , Common               | Smartweed, Swamp |
| Bindweed, Field      | , Curly                      | , Honeyvine            | Sowthistle       |
| , Hedge              | Dogbane, Hemp                | , Whorled              | Thistle, Canada  |
| Chicory              | Horsenettle, Carolina        | Nightshade, Silverleaf | Vetch            |
| Clover, Hop          | Knapweed, Spotted            | (White Horsenettle)    |                  |
| , White              | · ·                          | Plantain, Broadleaf    |                  |

#### Wind

Drift potential increases at wind speeds of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. AVOID GUSTY OR WINDLESS CONDITIONS.

**Note:** Local terrain can influence wind patterns. The applicator should be familiar with local wind patterns and how these patterns affect spray drift.

#### Temperature and Humidity

When making applications in hot and dry conditions, set up equipment to produce larger droplets to reduce effects of evaporation.

#### **Temperature Inversions**

Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

#### **Shielded Sprayers**

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with uniform deposition of the product.

## **Environmental Conditions and Biological Activity**

Good weed control is heightened by warm, moist conditions (70° F or more) and adequate soil moisture both before and after application. The degree and duration of control depend on: application rate, weed spectrum, weed size, growing conditions before and after treatment, soil moisture, precipitation, and adjuvants. Stress affects all weeds, but especially weeds such as field sandbur, woolly cupgrass, green and yellow foxtail, and wild proso millet. If weeds are under stress, delay application of **Celebrity® Plus** herbicide until the stress passes and weeds begin to grow again.

Applications made during or immediately after period of extreme day/night temperature fluctuations or where daytime temperatures do not exceed 50° F may decrease weed control or increase crop injury. If these conditions exist, delay application until the temperatures warm and both weeds and the crop resume normal growth.

Ensure that equipment is set up to avoid applying an excessive rate directly over the rows and onto the corn leaf whorl.

Use a minimum of 10 gallons of water per acre for light, scattered weed stands. Under heavy weed pressure, dense crop foliage or moisture stress, increase volume to at least 15 gallons of water per acre. Ground application of **Celebrity Plus** to dry, dusty fields may reduce weed control in wheel track areas. Poor weed control or crop injury may result from applications made to plants under stress from:

- abnormally hot or cold weather
- environmental conditions such as drought, watersaturated soils, hail damage, or frost
- disease, insect, or nematode injury
- prior herbicide, or carryover from a previous year's herbicide application

Delay application until stress passes and both weeds and corn resume growth. Severe stress from conditions immediately following application may also result in crop injury or poor weed control.

As weeds mature, their sensitivity to **Celebrity Plus** decreases. As grassy weeds become mature (more than 3 tillers), they may be larger than the size listed in **Table 2**. When conditions exist where weeds are maturing rapidly, apply **Celebrity Plus** to weeds that are smaller than those listed in **Table 2**. Susceptible weeds are controlled in 7 - 21 days.

#### III. Additives

Applications of **Celebrity Plus** herbicide must include an adjuvant and an ammonium nitrogen fertilizer.

#### Nonionic Surfactant (NIS)

Apply 1-2 quarts of NIS per 100 gallons of spray solution (0.25-0.5% v/v concentration). Use the higher rate in drought conditions to enhance control. At least 50% of the surfactant product must be active NIS. Avoid products that do not accurately define their ingredients. Products must contain only EPA-exempt ingredients (40 CFR 1001). Biodegradable products are encouraged. Do not use products that change the pH of the spray tank solution,

#### **Ammonium Nitrogen Fertilizer**

Use 1-2 quarts of a high-quality liquid nitrogen fertilizer (such as 28-0-0) per acre. In place of liquid nitrogen fertilizer, 1-2 pounds (or liquid equivalent) of high quality spray-grade ammonium sulfate (21-0-0) per acre may be applied.

Do not use liquid nitrogen fertilizers without nonionic surfactant.

Liquid nitrogen fertilizers should not be used as the total carrier solution.

#### **IV. General Mixing Information**

Additives and/or other pesticides may be mixed in the spray tank with **Celebrity® Plus** herbicide using the information in this section.

#### Tank Mix Partners

The following herbicides may be tank mixed with **Celebrity Plus** according to the instructions in section **VI. Crop-Specific Information**.

- Accent<sup>®</sup>
- Atrazine
- Distinct<sup>®</sup>

Read and follow the applicable **Restrictions and Limitations** and **Directions For Use** on all products involved in tank mixing. The most restrictive labeling plies to tank mixes.

sequential applications should be made if all target weeds are not at the correct growth stage for treatment at the same time.

Refer to section **VI. Crop-Specific Information** for more details on tank mixes and sequential applications.

#### Mixing with Insecticides

Celebrity Plus may also be tank mixed with rethroid insecticides such as Asana®, or Pounce®, well as carbamate insecticides such as Furadan®, and Lannate®. Note the tank mix restrictions below for insecticides that are not recommended in tank mixes with Celebrity Plus.

Physical incompatibility, reduced weed control, or crop injury may result from mixing **Celebrity Plus** 

th other pesticides (fungicides, herbicides, insectiuldes, or miticides), additives, or fertilizers. BASF does not recommend using tank mixes other than those listed on BASF labeling.

#### **Tank Mix Restrictions and Limitations**

- Celebrity Plus should not be tank mixed with foliar-applied organophosphate insecticides such as Lorsban®, malathion, parathion, etc. or Ambush® EC and Warrior® EC formulations, as severe crop injury may occur.
- Celebrity Plus should not be tank mixed with emulsifiable concentrate (EC) formulations of chloroaceteamide grass herbicides (i.e.: Dual II Magnum®, Harness®, Outlook®, Surpass®)
- To avoid crop injury or antagonism, apply bentazoncontaining herbicides (such as **Basagran**® or **Laddok® S-12**), or organophosphate insecticides at least 7 days before or 3 days after applying **Celebrity Plus**.

 If antagonism occurs, complete control can be obtained with either a timely cultivation (see Cultivation) or a second application of Celebrity Plus (refer to Sequential Applications in section VI. Crop-Specific Information).

#### **Compatibility Test for Mix Components**

Before mixing additives and/or other pesticides, always perform a compatibility jar test.

For 20 gallons per acre spray volume, use 3.3 cups (800 ml) of water. For other spray volumes, adjust rates accordingly. Only use water from the intended source at the source temperature.

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

Always cap the jar and invert 10 cycles between component additions.

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

#### Mixing Order

When mixing additives and/or other pesticides in a spray tank, add the products to be used in the following sequence.

- 1) **Water.** Begin by agitating a thoroughly clean sprayer tank three-quarters full of clean water.
- 2) **Agitation.** Maintain constant agitation throughout mixing and application.
- 3) Products in PVA bags. Place any product contained in water-soluble PVA bags into the mixing tank. Wait until all water-soluble PVA bags have fully dissolved and the product is evenly mixed in the spray tank before continuing.
- 4) Water-dispersible products (such as Celebrity Plus, dry flowables, wettable powders, suspension concentrates, or suspo-emulsions).
- 5) Water-soluble products.
- 6) Emulsifiable concentrates.
- 7) Water-soluble additives (such as AMS or UAN when applicable).
- 8) Remaining quantity of water.

Maintain constant agitation during application.

#### V. Restrictions and Limitations

- Maximum seasonal use rate: Do not apply more than 9.4 ounces of Celebrity® Plus herbicide (0.41 pounds of active ingredient) per acre, per season.
- Sequential Applications: Do not apply sequential applications of Banvel®, Clarity®, Distinct® or Marksman® herbicide, within 15 days of an application of Celebrity Plus.
- Do not make more than 2 applications of Celebrity Plus per acre per season.
- When using tank mixes or sequential applications:
- The total amount of nicosulfuron (active ingredient) applied cannot exceed 0.67 ounce per acre per application or 1.0 ounce per acre per season.
- The total amount of dicamba (active ingredient) applied cannot exceed 0.5 pound per acre per application or 0.75 pound per acre per season.
- The total amount of diffusenzopyr (active ingredient) applied cannot exceed 0.1 pound per acre per application or 0.125 pound per acre per season.
- Preharvest Interval: Do not apply within 32 days of forage harvest. Do not apply within 72 days of corn grain and stover harvest.
- Restricted Entry Interval (REI): 12 hours
- Crop Failure: In case of crop failure, only field corn or field corn grown for seed may be replanted.
- Stress: Poor weed control or crop injury may result from applying Celebrity Plus to plants under stress due to lack of moisture, hail damage, flooding, herbicide injury, mechanical injury, or widely fluctuating temperatures.
- Do not apply to crops that show **injury** (leaf phytotoxicity or plant stunting) produced by any other prior herbicide applications, because this injury may be enhanced or prolonged.
- Rainfastness: For best performance, rainfall or irrigation should not occur for 4 hours after application.
- Do not apply through any type of irrigation equipment.
- Do not apply **Celebrity Plus** near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots.
- Prevent drift of spray to desirable plants.
- In fields infested with Johnsongrass or fields with a previous history of corn virus infection, a corn
  hybrid with a high degree of virus tolerance should be used. Consult your local seed corn representative for information on virus-tolerant hybrid's.
- Do not apply on Long Island in the State of New York.

#### **Crop Rotation Guidelines:**

- Rotational crops vary in their response to low concentrations of **Celebrity Plus** remaining in the soil. (refer to **Table 4**) **Celebrity Plus** dissipates rapidly in warm, acidic, microbiologically active soils.
- The amount of Celebrity Plus which may be present in the soil depends on application rate, soil pH and organic matter content, elapsed time since application, crop production practices, and environmental factors.
- Injury to rotational crops may occur in high-pH, cold soils if dry weather prevails between application and rotational crop planting.
- Soil pH should be determined by laboratory analysis using the 1:1 soil:water suspension method on representative soil samples taken at 0-4" depth. Soil pH varies within fields; therefore, recropping should be based on the highest soil pH within each field. Consult local extension publications for recommended soil sampling procedures.

| Table 3. Crop-Specific Restrictions and Limitations |  |   |  |
|---|--|---|--|
| Crop  | Minimum Time<br>From Application<br>to Harvest (PHI) | Maximum Rate<br>Per Acre<br>Per Application | Maximum Rate<br>Per Acre<br>Per Season |
| Corn, forage<br>, grain or stover                   | 32 days<br>72 days                                   | 4.7 ounces                                  | 9.4 ounces                             |

#### VI. Crop- Specific Information

#### Corn

**Plebrity® Plus** herbicide may be used on field corn yh lysine, waxy, white or other food-grade corn hybrids). Apply **Celebrity Plus** at 4.7 ounces per acre. For best performance, apply **Celebrity Plus** to actively growing grass weeds that are within the height ranges specified in **Table 2**.

Apply **Celebrity Plus** when corn is 4 to 24" tall (standing height). It is recommended to apply **Celebrity Plus** with drop nozzles when corn exceeds 20" tall or has more than 6 leaf collars (V6), whichever is more restrictive. Avoid direct application of spray into the whorl of corn plants.

#### **Corn Tank Mixes**

#### Celebrity Plus + Accent®

Celebrity Plus: 4.7 ounces Accent 75 WG: 0.33-0.67 ounces

Tank mixes with **Accent** may be used for additional control of grasses in adverse conditions or added suppression of grasses past the recommended growth stages at time of application. Use the higher rate indicated for added control of larger weeds.

To control difficult annual grasses such as green and vellow foxtail, wild proso millet and sandbur in the stern U.S. and western areas of the corn belt, 0.33

ounce of **Accent** per acre in addition to **Celebrity Plus** may be required.

#### Celebrity Plus + Atrazine

Celebrity Plus: 4.7 ounces Atrazine 4L: 1-3 pints

or

Atrazine (i.e. 90 DF): 0.56-1.66 pounds Tank mixes with atrazine may be used for additional foliar or soil-residual weed control. Use the higher rate indicated for extended soil residual control. Apply before corn exceeds the 12" (free standing) stage of growth.

#### Celebrity Plus + Distinct®

Celebrity Plus: 4.7 ounces
Distinct: 2 ounces

Tank mixes with **Distinct** may be used for additional control of broadleaf weeds in adverse conditions for added control or suppression of broadleaf weeds past the recommended growth stages at the time of application. Apply before corn exceeds the 10" (free standing) stage of growth.

#### **Sequential Applications**

#### Sequential Applications with Celebrity Plus:

Annual broadleaf weeds and grasses may have more than one flush of emerging seedlings. Also, regrowth of treated broadleaf weeds grasses may occur due to adverse environmental conditions following application. Perennial grasses may regrow from underground stems or roots, depending upon environmental conditions. To control these weeds under these conditions, a sequential application of **Celebrity Plus** may be necessary. The combined dosage of the sequential applications must not exceed 9.4 ounces of **Celebrity Plus** per acre.

Sequential applications of 4.7 ounces of **Celebrity Plus** per acre must be separated by at least 15 days.

Sequential Applications with Other Herbicides:
Celebrity Plus may be applied to corn after use of preplant, pre-emergence, or early postemergence herbicides such as: Accent®, atrazine, Banvel®, Bicep® II Magnum, Clarity®, Dual II Magnum®, Outlook®, Guardsman® Max, Harness®, Marksman®, or other herbicides registered for use on corn. A single application of Celebrity Plus may be made after using Banvel (up to 1 pint per acre), Clarity (up to 16 fluid ounces per acre), or Marksman (up to 3.5 pints per acre). Sequential applications with Banvel, Clarity, or Marksman must be separated by at least 15 days. A single application of Celebrity Plus may be made before or after the use of Accent.
Do not exceed a combined rate of 4.7 ounces of

**Celebrity Plus** plus 0.67 ounce of **Accent** per acre, per season.

Table 4. Rotational Crop Intervals

The following rotational intervals should be observed when using **Celebrity® Plus** herbicide:

| Rotational Crop                | Inte                   | erval                  |
|--------------------------------|------------------------|------------------------|
| No soil pH restrictions        |                        |                        |
| Corn (Field, Seed)             | 1 v                    | veek                   |
| Corn (Pop, Sweet) <sup>1</sup> | 10 m                   | nonths                 |
| Soybeans                       | 4 m                    | onth                   |
| Wheat (Winter)                 |                        | onths                  |
| Wheat (Spring)                 | Ų                      | onths                  |
| Barley (Winter)                |                        | onths                  |
| Barley (Spring)                |                        | onths                  |
| Rye (Winter)                   |                        | onths                  |
| Dry Beans                      |                        | ionths                 |
| Oats 8 months                  |                        |                        |
| Peas, Snap Beans               | 10 months<br>10 months |                        |
| Alfaifa?                       | 12 months              |                        |
| Red Clover <sup>2</sup>        | 12 months              |                        |
| Other Crops                    | See rotat              | ional crop             |
|                                | guidelines below       |                        |
| with soil pH 7.5 restrictions  | pH ≤ 7.5               | pH > 7.5               |
| Sorghum                        | 10 months              | 18 months <sup>3</sup> |
| Sunflowers                     | 11 months4             | 18 months              |
| with soil pH 6.5 restrictions  | pH ≤ 6.5               | pH > 6.5               |
| Sugar beets                    | 10 months              | 18 months <sup>6</sup> |
| All other crops not listed.    | 10 months              | 18 months <sup>6</sup> |
|                                |                        |                        |

- 1 Except the sweet corn varieties "Merit", "Carnival", and "Sweet Success", for which the minimum time interval is 15 months.
- 2 Except for the state of Kansas east of Highway 75, for Minnesota east and south of the Red River Valley and for the states east of the line formed by the western borders of lowa, Missouri, Arkansas, and Louisiana, where the minimum time interval is 10 months.
- 3 Except in Texas and Oklahoma east of highway 281, where the rotational interval is 10 months, regardless of pH.
- 4 Precipitation following application must exceed 14" prior to planting sunflowers.
- 5 Except on irrigated sites in Colorado, Wyoming, Nebraska, Texas, or in Michigan where precipitation following application must exceed 25" prior to planting beets, where the interval is 10 months on soils with pH < 7.5.
- 6 In North Dakota and northwest Minnesota, the cumulative precipitation in the 18 months following application must exceed 28" in order to rotate to sugarbeets or potatoes.

| Broadleaf weeds             | listed in this label:      |
|-----------------------------|----------------------------|
| Common Name                 | Scientific Name            |
| Alfalfa                     | Medicago sativa            |
| Artichoke, Jerusalem        | Helianthus tuberosus       |
| Reggarweed, Florida         | Desmodium tortuosum        |
| ndweed, Field               | Convolvulus arvensis       |
| , Hedge                     | Convolvulus sepium         |
| Buckwheat, Wild             | Polygonum convolvulus      |
| Buffalobur                  | Solanum rostratum          |
| Burclover, California       | Medicago polymorpha        |
| Burcucumber                 | Sicyos angulatus           |
| Carpetweed                  | Mollugo verticillata       |
| Chickweed, Common           | Stellaria media            |
| Chicory                     | Cichorium intybus          |
| Clover, Hop                 | Trifolium aureum           |
| Clovers (Annual)            | Trifolium sp.              |
| Cocklebur, Common           | Xanthium strumarium        |
| Croton, Tropic              | Croton glandulosus         |
| Dandelion, Common           | Taraxacum officinale       |
| Devil's Claw                | Proboscidea Iouisianica    |
| Dock, Broadleaf (Bitterdock |                            |
| , Curly                     | Rumex crispus              |
| Dogbane, Hemp               | Apocynum cannabinum        |
| Horsenettle, Carolina       | Solanum carolinense        |
| Jimsonweed                  | Datura stramonium          |
| 'napweed, Spotted           | Centaurea maculosa         |
| notweed                     | Polygonum sp.              |
| Kochia                      | Kochia scoparia            |
| Ladysthumb                  | Polygonum persicaria       |
| Lambsquarters, Common       | Chenopodium album          |
| Mallow, Common              | Malva neglecta             |
| . Venice                    | Hibiscus trionum           |
| Marestail                   | Hippurus vulgaris          |
| Milkweed, Climbing          | Sarcostemma cyanchoides    |
| , Common                    | Asclepias syriaca          |
| , Honeyvine                 | Ampelamus albidus          |
| , Whorled (Eastern          |                            |
| , Whorled (Western          | Asclepias subverticillata  |
| ¹ ¹orningglory, Entireleaf  | Ipomoea hederacea          |
| , Ivvleaf                   | Ipomoea hederacea          |
| , ryjear<br>. Pitted        | Opomoea lacunosa           |
| . Smallflower               | Jacquemontia tamnifolia    |
| , Smaillowei<br>. Tall      | Ipomoea purpurea           |
| Mustard, Tansy              | Brassica kaber             |
| . Wild                      | Ampelamus albidus          |
| , Volid<br>, Yellowtops     | Ascelepius subverticillata |
| , reliowtops                | Ascelepius subverticillata |

| Broadleaf weeds listed in this label: |                         |  |
|---------------------------------------|-------------------------|--|
| Common Name                           | Scientific Name         |  |
| Nightshade, Black                     | Solanum nigrum          |  |
| , Hairy                               | Solanum särrachoides    |  |
| , Silverleaf                          | Solanum elaeagnifolium  |  |
| (White Horsenettle)                   |                         |  |
| Pigweed, Palmer                       | Amaranthus palmeri      |  |
| Prostrate                             | Amaranthus blitoides    |  |
| , Redroot                             | Amaranthus retroflexus  |  |
| (Carelessweed)                        |                         |  |
| , Smooth                              | Amaranthus hybridus     |  |
| , Spiny                               | Amaranthus spinosus     |  |
| Tumble                                | Amaranthus albus        |  |
| Plantain, Broadleaf                   | Plantago major          |  |
| Pokeweed                              | Phytolacca americana    |  |
| Puncturevine                          | Tribulus terrestrius    |  |
| Purslane, Common                      | Portulaca oleracea      |  |
| Ragweed, Common                       | Ambrosia artemisifolia  |  |
| . Giant                               | Ambrosia trifida        |  |
| (Buffaloweed)                         | I                       |  |
| `Lance-Leaf                           | Ambrosia bidentata      |  |
| Rubberweed, Bitter                    | Hymenoxys odorata       |  |
| (Bitterweed)                          | <u> </u>                |  |
| Sesbania, Hemp                        | Sesbania exaltata       |  |
| Shepherdspurse                        | Capsella bursa-pastoris |  |
| Sicklepod                             | Cassia obtusifolia      |  |
| Sida, Prickly (Teaweed)               | Sida spinosa            |  |
| Smartweed, Green                      | Polygonum lapathifolium |  |
| , Pennsylvania                        | Polygonum pensylvanicum |  |
| , Swamp                               | Polygonum coccineum     |  |
| Smellmelon                            | Cucumis melo            |  |
| Sowthistle, Annual                    | Sonchus oleraceus       |  |
| , Perennial                           | Sonchus arvensis        |  |
| Spikeweed, Common                     | Hemizonia pungens       |  |
| Spanish needles                       | Bidens pinnata          |  |
| Spurge, Prostrate                     | Euphorbia supina        |  |
| Sunflower, Common (Wild)              | Helianthus annuus       |  |
| , volunteer                           | Helianthus sp.          |  |
| Thistle, Canada                       | Cirsium arvense         |  |
| Thistle, Russian                      | Salsola iberica         |  |
| Velvetleaf                            | Abutilon theophrastic   |  |
| Vetch                                 | Vicia sp.               |  |
| Waterhemp, Common                     | Amaranthus rudis        |  |
| , Tail                                | Amaranthus tuberculatus |  |

| Grasses listed in this label:   |  |  |
|---|--|--|
| Common Name   | Scientific Name  |  |
| Barnyardgrass Cupgrass, Woolly Foxtail, Bristly , Giant , Green , Yellow Itchgrass Johnsongrass (seedling) Johnsongrass (rhizome) Millet, Wild Proso Oats, Wild Panicum, Browntop , Fall , Texas Quackgrass Ryegrass, Italian Sandbur, Field , Longspine Shattercane Signalgrass, Broadleaf Sorghum Almum | Echinochloa crus-galli Echinochloa villosa Setaria verticillata Setaria faberi Setaria lutescens Rottboellia exaltata Sorghum halepense Sorghum halepense Panicum miliaceum Avena sativa Panicum fasciculatum Panicum dichotomiflorum Panicum texanum Agropyron repens Lolium multiflorum Cenchrus incertus Cenchrus longispinus Sorghum bicolor Brachiaria platyphylla Sorghum almum Parod. |  |

#### Crops

This product can be used on the following crops:

#### Field Corn

Look inside for complete Restrictions and **Limitations** and **Application Instructions**.

#### 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. BASE MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL BASE OR THE SELLER BE LIABLE FOR CONSEQUENTIAL SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, BASE 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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