

**BASF**

AM 25 7969-77

Copy 3b Prodigy

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3/5/96 Notification

**ACCEPTED**  
 APR 4 1996  
 Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under  
 EPA Reg. No. 7969-77

# Manifest<sup>TM</sup> B

## herbicide

### Postemergence Herbicide

For broad spectrum weed control in soybeans

A soluble liquid formulation containing:

**Active ingredients\***

Sodium salt of bentazon: .....	33.4%
Sodium salt of acifluorfen: .....	6.8%
<b>Inert ingredients: .....</b>	<b>59.8%</b>
<b>Total .....</b>	<b>100.0%</b>

\*Equivalent to 3.00 pounds per gallon bentazon: (3-(isopropyl)-1H-2,1,3-benzothiazidin-4 (3H)-one 2, 2-dioxide) and 0.67 pounds per gallon of sodium acifluorfen, sodium (5-[2-chloro-4- (trifluoromethyl) phenoxy]-2-nitrobenzoate).

EPA Reg. No. 7969-77

**KEEP OUT OF REACH OF CHILDREN.**

### DANGER/PELIGRO

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

#### Statement of Practical Treatment

- If in eyes:** Flush with large amounts of water for at least 15 minutes. get medical attention.
- If on skin:** Wash with plenty of soap and water. Consult a physician if irritation persists.
- If swallowed:** Dilute by giving 2 glasses of water to drink and call a physician. Never give anything by mouth to an unconscious person.
- Note to physician:** Emesis is recommended.

See inside for complete **Precautionary Statements, Directions For Use, and Conditions of Sale and Warranty.**

**Agricultural Use Requirements**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the **Directions For Use** for information about this standard.

**Net contents: 1.25 gallons**

BASF Corporation  
 P.O. Box 13528, Research Triangle Park, NC 27709

**Precautionary Statements**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**Danger**

Causes eye damage. Harmful if swallowed, inhaled or absorbed through the skin. Do not get in eyes. Avoid breathing vapor or spray mist and contact with skin or clothing. May cause allergic skin response.

**Personal Protective Equipment (PPE)**

**Applicators and other handlers must wear:**

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

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 washables, use detergent and hot water. Keep and wash PPE 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 agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**User Safety Recommendations Users should:**

- 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 gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**Environmental Hazards**

For terrestrial uses, 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. Do not apply when weather conditions favor drift from target area.

**Groundwater Advisory**

Residues of acifluorfen have been found in groundwater as a result of agricultural use. Use of this product in areas where soils are permeable, such as sand and soils with loamy sand textures, and where water tables are shallow could result in contamination of groundwater. The utilization of irrigated water in these areas will increase the likelihood of contamination.

**Directions For Use — Tank Mix of Manifest™ B and Manifest™ G Herbicides**

(Hereafter referred to as **Manifest**) 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 48 hours.

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

- Coveralls
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

**Storage and Disposal**

Keep from freezing. Store above 40°F. Do not contaminate water, food, or feed by storage or disposal. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Triple rinse Duplex™ II container (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 empty container.

**Prodigy™ System** must be returned to the point of purchase for cleaning and refilling.

**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:

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

**Steps to be taken in case material is released or spilled.**

Dike and contain spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal. Remove contaminated clothing and wash affected skin areas with water. Wash clothing before re-use. Keep spill out of all sewers and open bodies of water.

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#### General Information

**Manifest™** is intended for early postemergence control of a wide spectrum of broadleaf weeds and grasses in soybeans. **Manifest** is effective through contact and systemic action; therefore, weeds must be thoroughly covered with spray. Large crop- and weed-leaf canopies shelter smaller weeds and prevent adequate spray coverage. **Manifest** may cause soybean leaf-speckling and leaf-bronzing under certain conditions. Soybeans are tolerant and generally outgrow these conditions in 7-10 days.

#### Prodigy™ System

**Manifest** is supplied in the **Prodigy System**, a unique, 120-gallon mini-bulk closed delivery system. It consists of a self-discharging tank that does not require any pumping mechanism, and has a dry lock connector which protects the user from exposure to tank contents. Do not refill **Prodigy System**. Return **Prodigy System** to BASF for cleaning and refilling.

**Manifest** in a dedicated, returnable **Prodigy System** can only be used with the closed **Prodigy System** in which it comes packaged.

The **Prodigy System**, when operated according to directions, will discharge **Manifest B** and **G** in a 1:0.75 ratio. See **Prodigy System Operating Procedure**

#### Duplex™ II System

**Manifest** is provided in a molded jug pack that contains enough **Manifest B** and **Manifest G** to treat 5 acres.

Always read and follow all label directions when using any pesticide alone or in tank mix combinations. The most restrictive labeling applies when using a tank mix.

#### Prodigy System Operating Procedure

**Attention!** The **Prodigy System** is a pressurized delivery system.

Do not attempt to open the container. Transfer product only by following these steps:

- 1) Install a male dry lock connector to the spray tank.
- 2) Uncoil the hose from the rack and connect the female dry lock connector (at the end of the hose attached to the tank) with the male dry lock connector installed on the spray tank.
- 3) Turn on the nitrogen gas supply.
- 4) Push down on the silver horizontal handle in front of the meter until both sides are locked in the lower position allowing the manifold to fill with pressure and product.

- 5) Set measuring meter to zero.
- 6) Turn the yellow manifold handle counter clockwise (to horizontal) until the desired amount of product, as indicated on the measuring meter, has been discharged into the spray tank.
- 7) Turn the yellow manifold handle clockwise (to vertical) to stop the discharge of product into the sprayer tank.
- 8) Lift the silver handle to the unlocked position in front of the meter to stop liquid and pressurization from flowing into the manifold.
- 9) Starting at the yellow handle on the **Prodigy Tank**, grasp the hose and walk toward the receiving tank holding the hose level or higher than the dry lock connection allowing all of the product to drain out of the hose.
- 10) Disconnect the female dry lock connector on the tank hose from the male dry lock connector on the spray tank.
- 11) Recoil the hose onto the hose rack.
- 12) Turn off the nitrogen gas supply when the **Prodigy System** operation is completed, the tank is empty, or tank is ready to be returned to the point of purchase.

#### Prodigy Mixing

- 1) Fill tank of a thoroughly clean sprayer one half to two-thirds full with clean water. Start agitation.
- 2) Add nitrogen solution or silicone adjuvant.
- 3) Add tank mix partner (if applicable).
- 4) Add **Manifest** and remaining volume of water.
- 5) Allow to mix thoroughly.
- 6) Maintain constant agitation during application.
- 7) After dispensing **Manifest** from the **Prodigy System**, spray within 48 hours.

#### Duplex™ II System Operating Procedure

##### Duplex™ II Mixing

- 1) Fill tank of a thoroughly clean sprayer one half to two-thirds full with clean water. Start agitation.
- 2) Add nitrogen solution or silicone adjuvant.
- 3) Add tank mix partner (if applicable).
- 4) Add **Manifest B** to the spray tank, then add **Manifest G**. Finally, add the remaining volume of water to the spray tank. Do not attempt to pour the contents of the **Duplex II** container system (**Manifest B** and **Manifest G**) into the tank simultaneously or poor mixing will result.

- 5) Allow to mix thoroughly.
- 6) Maintain constant agitation during application.
- 7) After dispensing **Manifest B** and **Manifest G** from the **Duplex II System** into the spray tank, spray within 48 hours.

#### Timing of Applications

Apply **Manifest B** at 2 pints per acre plus **Manifest G** at 1.5 pints per acre or **Manifest** at 3.5 pints per acre before weeds reach the maximum size listed in **Table 1**. Soybeans generally should be in the first to third trifoliate stage. Early application to weeds results in the most beneficial effect on weed control and makes it easier to obtain thorough coverage. Delay in application which permits weeds to exceed the maximum size stated could result in inadequate control. Cultivation before or during application is not recommended. Cultivation at this time may cause inadequate control because weeds may be under stress. A timely cultivation 7-10 days after application may assist in weed control.

#### Water Volume and Spray Pressure

**Ground Equipment:** Use a minimum of 10 gallons of water per broadcast acre and a maximum of 60 psi (measured at the boom, not at the pump or in the line). When crop and weed foliage is dense, use up to 20 gallons of water and a minimum of 40 psi pressure. Use standard high pressure pesticide hollow cone or flat fan nozzles spaced 20 inches apart. Do not use flood, whirl chamber, or controlled droplet applicator (CDA) nozzles.

#### Aerial Application

Use a minimum of 5 gallons of water per acre and a maximum of 40 psi pressure. To obtain uniform coverage and to avoid drift hazards, the following application equipment and practices should be used:

**Nozzle Type:** Use only diaphragm-type nozzles producing cone or fan spray patterns.

**Nozzle Height:** Maximum of 10 feet above crop.

**Nozzle Orientation:** Nozzles must be oriented so as to discharge straight back with the air stream (opposite the direction of travel of the aircraft) or at some angle between straight back and straight down.

Nozzles must be located no farther out than  $\frac{3}{4}$  the distance from the center of the aircraft to the end of the wing or rotor.

**Table 1. Maximum Weed Heights Controlled by Manifest B + Manifest G (2 pints of Manifest B per acre + 1.5 pints of Manifest G per acre) or Manifest (3.5 pints per acre) with Crop Oil Concentrate (1.25% v/v).**

Weeds Controlled	Maximum Height (inches)
Anoda, Spurred	3
Beggarticks	6
Buckwheat, Wild	3
Canada Thistle <sup>a</sup>	8 to bud stage
Cocklebur <sup>a</sup>	6
Dayflower	4
Devilsclaw <sup>b</sup>	3
Galinsoga <sup>b</sup>	2
Jimsonweed	6
Ladysthumb	6
Lambsquarters, Common <sup>b</sup>	2
Mallow, Venice	4
Morningglories <sup>c</sup>	2
Mustard, Wild	4
Nightshade, Black	<2
Nutsedge, Yellow <sup>b</sup>	6-8
Pigweed, Redroot	2
, Smooth	2
Poinsettia, Wild	4
Purslane, Common	1
Ragweed, Common	3
, Giant	6
Redweed	6
Sheepspurse <sup>d</sup>	4
Sida, Pricky (Teaweed)	3
Smartweed, Pennsylvania	6
Starbur, Bristly	2
Sunflower, Wild	5
Velvetleaf	5
Waterhemp, Tall	2
<b>Grasses Controlled</b>	
Annual Ryegrass	4
Barnyardgrass	4
Broadleaf Signalgrass	4
Foxtail, Giant	6
, Green	6
, Yellow	6
Goosegrass	4
Johnsongrass, Seedling	4
Panicum, Browntop	4
, Fall	4
, Texas	4
Millet, Wild Proso	4
Crabgrass, Large	4
, Smooth	4
Cupgrass, Woolly	4
Sprangletop, Red	4
Jungle rice	4
Volunteer Corn	12
Witchgrass	4

- <sup>a</sup> Do not treat earlier than leaf stage shown and do not count cotyledon leaves.
- <sup>b</sup> Control may be inconsistent with the rate of **Manifest** herbicide. A later application of **Basagran** herbicide may be necessary (see label for **Basagran**).
- <sup>c</sup> Control may be partial or inconsistent with this rate of **Manifest**. A later application of **Blazer** herbicide may be necessary (see label for **Blazer**).
- <sup>d</sup> Do not treat rosette before seed stalk appears.

Do not apply by aircraft within 200 feet upwind of ornamental or sensitive non-target crops such as corn, cotton, small grains, sugar beets, or sunflowers.

Applicator must follow the most restrictive use cautions to avoid drift hazard and must follow labeling as well as applicable state and local regulations and ordinances.

**Spray Additive:**

A nonphytotoxic oil concentrate (commonly referred to as crop oil concentrate) is required to achieve consistent weed control.

The oil concentrate must contain either a petroleum or vegetable oil base and must meet the following criteria:

- 1) be nonphytotoxic,
- 2) contain only EPA-exempt ingredients,
- 3) provide good mixing quality in the jar test, and
- 4) prove beneficial in local experience

With the addition of oil concentrate to **Manifest** on soybeans, some leaf burn may occur, but generally all new growth is normal and crop vigor is not reduced. The potential for leaf burn is increased when relative humidity and temperature are high. A few oil concentrates have exhibited excessive leaf burn. Refer to your supplier for information concerning successful local experience prior to purchasing any oil concentrate.

**Rate of Oil Concentrate**

**Ground Application:** 1.25% v/v (2 pints per acre maximum)

**Aerial Application**

0.625% v/v (1 pint per acre maximum)

Physical incompatibility, reduced weed control, or crop injury may result from mixing **Manifest** with pesticides (fungicides, herbicides, insecticides, or miticides), additives or fertilizers. Local agricultural authorities may be a source of information when using combinations other than those recommended by BASF.

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**Appendix**

The following are scientific names for the weeds listed in this section. For specific recommendations on control of these weeds, refer to the Application Rate Table.

**Broadleaf Weeds**

Common Name	Scientific Name
Anoda, Spurred	<i>Anoda cristata</i>
Beggarticks	<i>Bidens frondosa</i>
Buckwheat, Wild	<i>Polygonum convolvulus</i>
Butterprint (see Velvetleaf)	<i>Abutilon theophrasti</i>
Buttonweed (see Velvetleaf)	<i>Abutilon theophrasti</i>
Cocklebur	<i>Xanthium strumarium</i>
Dayflower	<i>Commelina</i> spp.
Devilsclaw	<i>Proboscidea louisianica</i>
Galinsoga	<i>Galinsoga</i> spp.
Jimsonweed	<i>Datura stramonium</i>
Ladysthumb	<i>Polygonum persicaria</i>
Lambsquarters, Common	<i>Chenopodium album</i>
Mallow, Venice	<i>Hibiscus trionum</i>
Morningglory, Common (tall)	<i>Ipomoea purpurea</i>
, Cypressvine	<i>Ipomoea quamoclit</i>
Morningglory, Entireleaf	<i>Ipomoea hederacea</i>
, Ivyleaf	<i>Ipomoea hederacea</i>
, Palmleaf	<i>Ipomoea wrightii</i>
, Pitted	<i>Ipomoea lacunosa</i>
, Purple Moonflower	<i>Ipomoea muricata</i>
, Smallflower	<i>Jacquemontia tamnifolia</i>
Mustard, Wild	<i>Sinapsis arvensis</i>
Nightshade, Black	<i>Solanum nigrum</i>
Pigweed, Redroot	<i>Amaranthus retroflexus</i>
, Smooth	<i>Amaranthus hybridis</i>
Poinsettia, Wild	<i>Euphorbia heterophylla</i>
Purslane, Common	<i>Portulaca oleracea</i>
Ragweed, Common	<i>Ambrosia artemisiifolia</i>
, Giant	<i>Ambrosia trifida</i>
Redweed	<i>Melochia corchorifolia</i>
Shepherdspurse	<i>Capsella bursa-pastoris</i>
Sida, Prickly or Teaweed	<i>Sida spinosa</i>
Smartweed, Pennsylvania	<i>Polygonum pennsylvanicum</i>
Starbur, Bristly	<i>Acanthospermum hispidum</i>
Sunflower, Wild	<i>Helianthus annuus</i>
Thistle, Canada	<i>Cirsium arvense</i>
Velvetleaf	<i>Abutilon theophrasti</i>
Waterhemp, Tall	<i>Amaranthus tuberculatus</i>

**Sedges**

Common Name	Scientific Name
Nutsedge, Yellow	<i>Cyperus esculentus</i>

**Restrictions and Limitations**

Always read and follow all label directions when using any pesticide alone or in tank mix combinations. The most restrictive label applies when using a tank mix.

Do not use treated plants for feed or forage.

Do not apply this tank mix through any type of irrigation equipment.

Do not apply this tank mix within 75 days of harvest.

Do not apply this tank mix during prolonged periods of drought or during unseasonably cold weather, as unsatisfactory weed control may result.

Do not apply to soybeans that have been subject to stress conditions such as hail damage, flooding, drought, injury from other herbicides, or widely fluctuating temperatures, as crop injury may result.

Root crops (such as carrots, turnips, sweet potatoes, etc.) must not be planted in a field treated with **Manifest™** for 18 months after treatment.

Rainfall immediately following application may reduce control.

An additional 2.5 pints of **Basagran** may be applied following a single application of **Manifest**.

An additional 3.5 pints of **Poast Plus®** herbicide may be applied following a single application of **Manifest**.

An additional 1.3 pints of **Blazer** may be applied following a single application of **Manifest**.

**Conditions of Sale and Warranty**

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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.

*Basagran is a registered trademark of BASF AG.  
Manifest, Prodigy, and Duplex are trademarks, and Blazer and Poast Plus are registered trademarks of BASF Corporation.  
Patent pending on Duplex II container.*

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P.O. Box 13528  
Research Triangle Park, NC 27709



Common Name	Scientific Name
Barnyardgrass	<i>Echinochloa crus-galli</i>
Bermudagrass	<i>Cynodactylon</i>
Brome, Downy	<i>Bromus setorum</i>
Crabgrass, Large	<i>Digitaria sanguinalis</i>
, Smooth	<i>Digitaria ischaemum</i>
Cupgrass, Southwestern	<i>Eriochloa gracillis</i>
, Woolly	<i>Eriochloa villosa</i>
Fescue, Tail	<i>Festuca arundinacea</i>
Foxtail, Giant	<i>Setaria faberi</i>
, Green	<i>Setaria viridis</i>
, Yellow	<i>Setaria glauca</i>
Goosegrass	<i>Eleusine indica</i>
Itchgrass	<i>Rottboellia exaltata</i>
Johnsongrass	<i>Sorghum halepense</i>
Junglerice	<i>Echinochloa colonum</i>
Lovegrass (See Stinkgrass)	
Millet, Wild Proso	<i>Panicum miliaceum</i>
Muhly, Wirestem	<i>Muhlenbergia frondosa</i>
Oats, Tame	<i>Avena sativa</i>
, Wild	<i>Avena fatua</i>
Orchardgrass	<i>Dactylis glomerata</i>
Pigeongrass (See Foxtail)	
Panicum, Browntop	<i>Panicum fasciculatu</i>
, Fall	<i>Panicum dichotomiflorum</i>
, Texas	<i>Panicum texanum</i>
Quackgrass	<i>Agropyron repens</i>
Rescuegrass	<i>Bromus catharticus</i>
Red Rice	<i>Oryza sativa</i>
Ryegrass, Annual	<i>Lolium multiflorum</i>
, Perennial	<i>Lolium perenne</i>
Sandbur, Field	<i>Cenchrus incertus</i>
Shattercane/Wildcane	<i>Sorghum bicolor</i>
Signalgrass, Broadleaf	<i>Brachlaria platyphylla</i>
Sprangletop, Red	<i>Leptochloa filiformis</i>
Stinkgrass	<i>Eragrostis ciliaransis</i>
Volunteer, Barley	<i>Hordeum vulgare</i>
, Corn	<i>Zea mays</i>
, Oats	<i>Avena sativa</i>
, Rye	<i>Secale Cereale</i>
, Wheat	<i>Triticum aestivum</i>
Watergrass (See Barnyardgrass)	
Wiregrass (See Bermudagrass)	
Witchgrass	<i>Panicum capillare</i>