

BASF

PM 25

7969-77

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A C C E P T E D

JAN -8 1997

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

Manifest[®] 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%
Inert ingredients:	59.8%
Total	100.0%

*Equivalent to 3.00 pounds per gallon bentazon: (3-(isopropyl)-1H-2,1,3-benzothiadiazin-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:

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

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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 cleaning/maintaining PPE. If no such 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 of 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.

Manifest B must be used in combination with Manifest G.

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.

Agricultural Use Requirements (continued)

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 over short-sleeved shirt and short pants
- Chemical-resistant gloves such as barrier laminate or viton ≥14 mils
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure

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® herbicide 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 activation handle in the front near the meter until the handle is locked in the

lower position allowing the manifold to fill with product and become pressurized.

Some tanks do not have a handle; move on to the next step.

5. Turn the meter on by pressing the "ON/TOTAL" button.
6. Press "RESET" button to set current total to "0.00" if desired.
7. Turn the yellow product delivery valve counterclockwise (to horizontal) until the desired amount of product, as indicated on the measuring meter, has been discharged into the spray tank.
8. Turn the yellow product delivery valve clockwise (to vertical) to stop the discharge of product into your spray tank.
9. Lift the activation handle to the unlocked position (in front near the meter) to stop liquid and pressurization from flowing into the manifold.
Some tanks do not have a handle; move on to the next step.
10. Turn off the nitrogen gas valve when the **Prodigy System** is not in use.
11. Hose draining: 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.
12. Disconnect the female dry lock connector on the tank hose from the male dry lock connector on the spray tank.
13. Recoil the hose onto the hose rack.
14. Be sure to turn off the nitrogen gas valve on the nitrogen cylinder when the **Prodigy System** operation is completed, or when the tank is empty, or when the tank is ready to be returned to the point of purchase.

Leave all product and bar code labels in place. Product labels must remain in place to comply with Department of Transportation regulations.

Return Container Promptly to Distributor

The **Prodigy System** containers are tracked with bar codes and serial numbers. Distributors are responsible for the containers assigned to them.

Return this container to the distributor from which it was

purchased. Notify the distributor if the container cannot be returned by a specific time. 3/12

The distributor is responsible for returning the container to BASF. The distributor will be charged for any container not returned within 30 days.

Prodigy Mixing

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

Duplex II System Operating Procedure

- 1) Fill tank of a thoroughly clean sprayer one half to two-thirds full with clean water. Start agitation.
- 2) Add nitrogen fertilizer.
- 3) Add tank mix partner if applicable. Allow to mix thoroughly.
- 4) Add **Manifest B** to the spray tank. Allow to mix thoroughly.
- 5) Add **Manifest G**. Allow to mix thoroughly.
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.
- 6) Add crop oil concentrate and the remaining volume of water. Allow to mix thoroughly.
- 7) Maintain constant agitation during application.
- 8) After dispensing **Manifest B** and **Manifest G** from the **Duplex II System** into the spray tank, spray within 48 hours.

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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)

Weeds Controlled	Maximum Height	Additive Rate Per Acre
Anoda, Spurred	3"	1-2 pints of oil concentrate
Beggarticks	6"	
Buckwheat, Wild	3"	or
Canada Thistle ^{1,2}	bud stage	
Cocklebur ¹	6"	1 pint (maximum) of oil concentrate plus
Dayflower	4"	
Devilsclaw ²	3"	1-2 quarts (maximum) of UAN ⁷
Galinsoga ²	2"	
Jimsonweed	6"	
Ladysthumb	6"	
Lambsquarters, Common ²	2"	
Mallow, Venice	4"	
Morningglories ³	2"	
Mustard, Wild	4"	
Nightshade, Black	<2"	
Nutsedge, Yellow ²	6-8"	
Pigweed, Redroot	2"	
Smooth	2"	
Poinsettia, Wild	4"	
Purslane, Common	1"	
Ragweed, Common	3"	
Giant	6"	
Redweed	6"	
Shepherdspurse ²	4"	
Sida, Prickly (Teaweed)	3"	
Smartweed, Pennsylvania	6"	
Starbur, Bristly	2"	
Sunflower, Wild ²	5"	
Velvetleaf ¹	5"	
Waterhemp, Common	2"	
Tall	2"	
Grasses Controlled		
Annual Ryegrass	4"	
Barnyardgrass	4"	
Broadleaf Signalgrass	4"	
Crabgrass, Large	2"	
Smooth	2"	
Foxtail, Giant	6"	
Green	6"	
Yellow	6"	
Goosegrass	4"	
Johnsongrass, Seedling	4"	
Jungle rice	4"	
Panicum, Browntop	4"	
Fall	4"	
Texas	4"	
Sprangletop, Red	4"	
Shattercane ²	4"	
Volunteer Corn ⁴	12"	
Wild Proso Millet	4"	
Witchgrass	4"	
Woolly Cupgrass	4"	

¹ Do not treat earlier than leaf stage shown and do not count cotyledon leaves.
² For regrowth or new germination, a follow-up application of **Basagran**[®] herbicide may be necessary (see label for **Basagran**).
³ For regrowth or new germination, a follow-up application of **Blazer**[®] herbicide may be necessary (see label for **Blazer**).
⁴ Do not treat rosette before seed stalk appears.
⁵ For regrowth or new germination, a follow-up application of **Poast Plus**[®] herbicide may be necessary (see label for **Poast Plus**).
⁶ Use a dual additive combination for weed infestations that include velvetleaf.
⁷ AMS can be substituted at 1-2 pounds per acre.
⁸ Volunteer corn must be non-SR[™] sethoxydim-resistant field corn. Manifest and Poast Plus will not control volunteer SR field corn.

Timing Applications
 Apply **Manifest[®] B** herbicide at 2 pints per acre plus **Manifest[®] G** herbicide 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 trifoliolate 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 Information
 Do not cultivate within 5 days before applying **Manifest** or 7 days after application. A timely cultivation after 7 days may help provide season-long control.

Water Volume and Spray Pressure
Ground Application: Use a minimum of 10 gallons of water per broadcast acre at 60 psi (measured at the boom, not at the pump or in the line) to ensure adequate spray coverage. When crop and weed foliage is dense, use up to 20 gallons of water at 40-60 psi. Use standard high-pressure hollow cone or flat fan nozzles spaced 20 inches apart. Do not use flood or whirl chamber nozzles. Brass nozzles are not recommended because of the corrosive effects of nitrogen additives. At lower volumes (e.g., 10 gallons of spray volume per acre) use a minimum nozzle size of 8002 or equivalent to minimize spray drift.
Air 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 the crop.
Nozzle orientation: Nozzles must be oriented 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 than ¼ the distance from the center of the aircraft to the end of the wing or rotor.

Do not apply by aircraft within 200 feet upwind of ornamental or sensitive nontarget 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 Additives:

The base rate for additives with **Manifest® herbicide** is 1-2 pints of oil concentrate per acre. However, if velvetleaf is a target species, use 0.5-1 pint of oil concentrate plus 1-2 quarts of UAN per acre (maximum). One pound of ammonium sulfate can be substituted for 1 quart of UAN.

Temperature and Relative Humidity Effects

The following standard will help determine the optimum adjuvant rate to use. If the temperature and relative humidity exceed 150 (e.g., temperature of 85° F plus 70% relative humidity = 155), use the lower adjuvant rates. The oil concentrate must contain either a petroleum or vegetable oil base and must meet all the following criteria:

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

Nitrogen Solution

UAN solution is commonly referred to as 28%, 30%, or 32% nitrogen, and is a water solution of urea and ammonium nitrate. Because most nitrogen solutions are corrosive to galvanized steel and brass spray equipment, rinse the entire spray system with water after use.

Note about ammonium sulfate

Use high-quality ammonium sulfate (AMS) to avoid plugging of spray nozzles. The AMS must be readily soluble in water and contain no insoluble materials. Local sources of high-quality, spray-grade AMS are recommended. Low-quality AMS may contain material that will not readily dissolve which could result in nozzle tip plugging. To determine quality, perform a jar test adding 1/3 cup of AMS to 1 gallon of water and agitate for 1 minute.

If any undissolved sediment is observed, predissolve the AMS in water and filter it before adding the AMS to the spray tank. If AMS can be added directly to the spray tank, add it slowly with agitation. Adding AMS too quickly may clog outlet lines. Ensure that the AMS is completely dissolved in the spray tank before adding other products.

AMS is not recommended for aerial applications because of potential precipitation problems.

With the addition of oil concentrate and UAN 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.

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.

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**.

Tank Mixes

• Manifest + Blazer

A tank mix of **Manifest**® herbicide plus **Blazer**® herbicide is recommended for additional or improved control of black nightshade, common ragweed, morningglories, pigweed, and waterhemp (common and tall).

Rate: Use 3.5 pints of **Manifest** mixed with up to 6 ounces of **Blazer** for each acre to be treated.

• Manifest + Classic

A tank mix of **Manifest** plus **Classic**® herbicide is recommended for the additional or improved control of wild sunflower.

Rate: Use 3.5 pints of **Manifest** mixed with up to 0.5 ounce (1/2 ounce) of **Classic** per acre.

• Manifest + Concert

A tank mix of **Manifest** plus **Concert**® herbicide is recommended for the additional or improved control of pigweed, lambsquarters, velvetleaf, and wild sunflower.

Rate: Use 3.5 pints of **Manifest** mixed with up to 0.25 ounce (1/4 ounce) of **Concert** per acre.

Manifest + Pinnacle

A tank mix of **Manifest** plus **Pinnacle**® herbicide is recommended for additional or improved control of pigweed, lambsquarters, and velvetleaf.

Rate: Use 3.5 pints of **Manifest** mixed with up to 0.125 ounce (1/8 ounce) of **Pinnacle** for each acre to be treated.

• Manifest + Resource

A tank mix of **Manifest** plus **Resource**® herbicide is recommended for the additional or improved control of velvetleaf.

Rate: Use 3.5 pints of **Manifest** mixed with up to 4 ounces of **Resource** per acre.

Spray Additives

Adjuvants are needed with these tank mixes to achieve consistent postemergence weed control. The standard label recommendation is 1 pint (maximum) of oil concentrate per acre plus 1-2 quarts (maximum) of UAN per acre.

AMS can be substituted for UAN (1 pound of AMS equals 1 quart of UAN).

Note: When using a tank mix of **Manifest + Resource**, use only 1-2 pints of crop oil concentrate per acre.

Restrictions and Limitations (partial...)

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

Do not apply these tank mixes to soybeans that have been subjected to stress conditions such as drought, flooding, frost or hail damage, high temperature stress or wilt, injury from herbicides or excess fertilizer or soil salts, wind injury, widely fluctuating temperatures, stress symptoms from disease, nematodes or insects, or cold temperatures when maximum daily temperature is below 70° F or soil temperature is below 60° F because weeds will not be actively growing and control may be reduced.

Do not use treated plants for feed or forage.

Do not apply these tank mixes through any type of irrigation system.

Avoid drift to all other crops and non-target areas.

Follow rotational restrictions as provided on each herbicide's respective labeling.

Thoroughly clean sprayer before and immediately after applying these tank mixes.

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Appendix

The following are scientific names for the weeds listed in this label.

Broadleaf Weeds

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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 spp.</i>
Devilsclaw	<i>Proboscidea louisianica</i>
Galinsoga	<i>Galinsoga spp.</i>
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 hybridus</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, Common	<i>Amaranthus rudis</i>
, Tall	<i>Amaranthus tuberculatus</i>

Sedges

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

Grasses

Common Name	Scientific Name
Barnyardgrass	<i>Echinochloa crus-galli</i>
Bermudagrass	<i>Cynodon dactylon</i>
Brome, Downy	<i>Bromus tectorum</i>
Crabgrass, Large	<i>Digitaria sanguinalis</i>
, Smooth	<i>Digitaria ischaemum</i>
Cupgrass, Woolly	<i>Eriochloa villosa</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>
Millet, Wild Proso	<i>Panicum miliaceum</i>
Pigeongrass (See Foxtail)	
Panicum, Browntop	<i>Panicum fasciculatu</i>
, Fall	<i>Panicum dichotomiflorum</i>
, Texas	<i>Panicum texanum</i>
Ryegrass, Annual	<i>Lolium multiflorum</i>
Shattercane/Wildcane	<i>Sorghum bicolor</i>
Signalgrass, Broadleaf	<i>Brachiaria platyphylla</i>
Sprangletop, Red	<i>Leptochloa filiformis</i>
Watergrass (See Barnyardgrass)	
Witchgrass	<i>Panicum capillare</i>

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.

Basagran is a registered trademark of BASF AG.
Prodigy and *SR* are trademarks and *Blazer*, *Duplex*, *Manifest*, and *Poast Plus* are registered trademarks of BASF Corporation.
Classic, *Concert*, and *Pinnacle* are registered trademarks of E.I. DuPont de Nemours and Company.
Resource is a registered trademark of Valent USA Corporation.
 Patent pending on Duplex II container.
 The Prodigy tank and manifold are covered by U.S. Patent 5,465,874 and other pending patent applications.

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NVA 96-4-46-0001

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

BASF

Galaxy®

herbicide

RECD EPA/OP/P/DPD1

JAN -8 1997

96 DEC 17

ACCEPTED

Under the Federal Insecticide, Fungicide, and Rodenticide Act. As amended, for the pesticide registered under EPA Reg. No. 7969-77

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Tank mix with Poast® herbicide for postemergence use in soybeans using Duplex® II and Prodigy™ Systems

EPA Reg. No 7969-77

All applicable directions, restrictions, precautions and Conditions of Sale and Warranty on the EPA-registered label are to be followed. This labeling must be in the possession of the user at the time of herbicide application.

Directions For Use

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

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.

General Information

Poast® + Galaxy® herbicides are intended for early postemergence control of a wide spectrum of broadleaf weeds and grasses in soybeans. Poast + Galaxy 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. Poast + Galaxy 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

Poast + Galaxy 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.

Poast + Galaxy 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 Galaxy and Poast in a 1:0.75 ratio. See Prodigy System Operating Procedure

Duplex II System

Poast + Galaxy is provided in a molded jug pack that contains enough Galaxy and Poast 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 activation handle in the front near the meter until the handle is locked in the lower position allowing the manifold to fill with product and become pressurized.

Some tanks do not have a handle; move on to the next step.

5. Turn the meter on by pressing the "ON/TOTAL" button.
6. Press "RESET" button to set current total to "0.00" if desired.
7. Turn the yellow product delivery valve counterclockwise (to horizontal) until the desired amount of product, as indicated on the measuring meter, has been discharged into the spray tank.
8. Turn the yellow product delivery valve clockwise (to vertical) to stop the discharge of product into your spray tank.
9. Lift the activation handle to the unlocked position (in front near the meter) to stop liquid and pressurization from flowing into the manifold.
Some tanks do not have a handle; move on to the next step.
10. Turn off the nitrogen gas valve when the Prodigy System is not in use.
11. Hose draining: 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.
12. Disconnect the female dry lock connector on the tank hose from the male dry lock connector on the spray tank.
13. Recoil the hose onto the hose rack.
14. Be sure to turn off the nitrogen gas valve on the nitrogen cylinder when the Prodigy System operation is completed, or when the tank is empty, or when the tank is ready to be returned to the point of purchase.

Leave all product and bar code labels in place. Product labels must remain in place to comply with Department of Transportation regulations.

Return Container Promptly to Distributor

The Prodigy™ System containers are tracked with bar codes and serial numbers. Distributors are responsible for the containers assigned to them.

Return this container to the distributor from which it was purchased. Notify the distributor if the container cannot be returned by a specific time.

The distributor is responsible for returning the container to BASF. The distributor will be charged for any container not returned within 30 days.

Prodigy Mixing

- 1) Fill tank of a thoroughly clean sprayer one half to two-thirds full with clean water. Start agitation.
- 2) Add nitrogen fertilizer.
- 3) Add tank mix partner if applicable. Allow to mix thoroughly.
- 4) Add Poast® + Galaxy® herbicides. Allow to mix thoroughly.
- 5) Add crop oil concentrate and remaining volume of water.
- 6) Allow to mix thoroughly.
- 7) Maintain constant agitation during application.
- 8) After dispensing Poast + Galaxy from the Prodigy System, spray within 48 hours.

Duplex® II System Operating Procedure

- 1) Fill tank of a thoroughly clean sprayer one half to two-thirds full with clean water. Start agitation.
- 2) Add nitrogen fertilizer.
- 3) Add tank mix partner if applicable. Allow to mix thoroughly.
- 4) Add Galaxy to the spray tank. Allow to mix thoroughly.
- 5) Add Poast. Allow to mix thoroughly. Do not attempt to pour the contents of the Duplex II container system (Galaxy and Poast) into the tank simultaneously or poor mixing will result.
- 6) Add crop oil concentrate and the remaining volume of water. Allow to mix thoroughly.
- 7) Maintain constant agitation during application.
- 8) After dispensing Galaxy and Poast from the Duplex II System into the spray tank, spray within 48 hours.

Timing of Applications

Apply Galaxy at 2 pints per acre plus Poast at 1.5 pints per acre or Poast + Galaxy 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 Information

Do not cultivate within 5 days before applying Poast + Galaxy or 7 days after application.

A timely cultivation after 7 days may help provide season-long control.

Water Volume and Spray Pressure

Ground Application: Use a minimum of 10 gallons of water per broadcast acre at 60 psi (measured at the boom, not at the pump or in the line) to ensure adequate spray coverage. When crop and weed foliage is dense, use up to 20 gallons of water at 40-60 psi. Use standard high-pressure hollow cone or flat fan nozzles spaced 20 inches apart. Do not use flood or whirl chamber nozzles. Brass nozzles are not recommended because of the corrosive effects of nitrogen additives. At lower volumes (e.g., 10 gallons of spray volume per acre) use a minimum nozzle size of 8002 or equivalent to minimize spray drift.

Air 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 the crop.

Nozzle orientation: Nozzles must be oriented 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 than ¼ the distance from the center of the aircraft to the end of the wing or rotor.

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

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Apply just 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 Additives:

The base rate for additives with Poast + Galaxy is 1-2 pints of oil concentrate per acre. However, if velvetleaf is a target species, use 0.5-1 pint of oil concentrate plus 1-2 quarts of UAN per acre (maximum). One pound of ammonium sulfate can be substituted for 1 quart of UAN.

Temperature and Relative Humidity Effects

The following standard will help determine the optimum adjuvant rate to use. If the temperature and relative humidity exceed 150 (e.g., temperature of 85° F plus 70% relative humidity = 155), use the lower adjuvant rates. The oil concentrate must contain either a petroleum or vegetable oil base and must meet all the following criteria:

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

Nitrogen Solution

UAN solution is commonly referred to as 28%, 30%, or 32% nitrogen, and is a water solution of urea and ammonium nitrate. Because most nitrogen solutions are corrosive to galvanized steel and brass spray equipment, rinse the entire spray system with water after use.

Note about ammonium sulfate:

Use high-quality ammonium sulfate (AMS) to avoid plugging of spray nozzles. The AMS must be readily soluble in water and contain no insoluble materials. Local sources of high-quality, spray-grade AMS are recommended. Low-quality AMS may contain material that will not readily dissolve which could result in nozzle tip plugging. To determine quality, perform a jar test adding 1/3 cup of AMS to 1 gallon of water and agitate for 1 minute. If any undissolved sediment is observed, predissolve the AMS in water and filter it before adding the AMS to the spray tank. If AMS can be added directly to the spray tank, add it slowly with agitation. Adding AMS too quickly may clog outlet lines. Ensure that the AMS is completely dissolved in the spray tank before adding other products.

AMS is not recommended for aerial applications because of potential precipitation problems.

With the addition of oil concentrate and UAN to **Poast® + Galaxy® herbicides** 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.

Physical incompatibility, reduced weed control, or crop injury may result from mixing **Poast + Galaxy** 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.

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 **Poast + Galaxy** for 18 months after treatment.

Rainfall immediately following application may reduce control.

An additional 2.5 pints of **Basagran® herbicide** may be applied following a single application of **Poast + Galaxy**.

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

An additional 1.3 pints of **Blazer** may be applied following a single application of **Poast + Galaxy**.

T. Mixes

• **Poast + Galaxy + Blazer**

A tank mix of **Poast + Galaxy** plus **Blazer® herbicide** is recommended for additional or improved control of black nightshade, common ragweed, morningglories, pigweed, and waterhemp (common and tall).
Rate: Use 3.5 pints of **Poast + Galaxy** mixed with up to 6 ounces of **Blazer** for each acre to be treated.

• **Poast + Galaxy + Classic**

A tank mix of **Poast + Galaxy** plus **Classic® herbicide** is recommended for the additional or improved control of wild sunflower.
Rate: Use 3.5 pints of **Poast + Galaxy** mixed with up to 0.5 ounce (1/2 ounce) of **Classic** per acre.

• **Poast + Galaxy + Concert**

A tank mix of **Poast + Galaxy** plus **Concert® herbicide** is recommended for the additional or improved control of pigweed, lambsquarters, velvetleaf, and wild sunflower.

Rate: Use 3.5 pints of **Poast + Galaxy** mixed with up to 0.25 ounce (1/4 ounce) of **Concert** per acre.

• **Poast + Galaxy + Pinnacle**

A tank mix of **Poast + Galaxy** plus **Pinnacle® herbicide** is recommended for additional or improved control of pigweed, lambsquarters, and velvetleaf.

Rate: Use 3.5 pints of **Poast + Galaxy** mixed with up to 0.125 ounce (1/8 ounce) of **Pinnacle** for each acre to be treated.

• **Poast + Galaxy + Resource**

A tank mix of **Poast + Galaxy** plus **Resource® herbicide** is recommended for the additional or improved control of velvetleaf.
Rate: Use 3.5 pints of **Poast + Galaxy** mixed with up to 4 ounces of **Resource** per acre.

Spray Additives

Adjuvants are needed with these tank mixes to achieve consistent postemergence weed control. The standard label recommendation is 1 pint (maximum) of oil concentrate per acre plus 1-2 quarts (maximum) of UAN per acre.

AMS can be substituted for UAN (1 pound of AMS equals 1 quart of UAN).

Note: When using a tank mix of **Poast + Galaxy + Resource**, use only 1-2 pints of crop oil concentrate per acre.

Restrict and Limitations (partial list)

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

Do not apply these tank mixes to soybeans that have been subjected to stress conditions such as drought, flooding, frost or hail damage, high temperature stress or wilt, injury from herbicides or excess fertilizer or soil salts, wind injury, widely fluctuating temperatures, stress symptoms from disease, nematodes or insects, or cold temperatures when maximum daily temperature is below 70° F or soil temperature is below 60° F because weeds will not be actively growing and control may be reduced.

Do not use treated plants for feed or forage.

Do not apply these tank mixes through any type of irrigation system.

Avoid drift to all other crops and non-target areas.

Follow rotational restrictions as provided on each herbicide's respective labeling.

Thoroughly clean sprayer before and immediately after applying these tank mixes.

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Table 1. Maximum Weed Heights Controlled by Galaxy (2 pints per acre) Tank Mixed with Poast (1.5 pints per acre) with Crop Oil Concentrate (1.25% v/v).

Weeds Controlled	Maximum Height	Additive Rate Per Acre	
Anoda, Spurred	3"	1-2 pints of oil concentrate	
Beggarticks	6"		
Buckwheat, Wild	3"	or	
Canada Thistle ^{1,2}	bud stage		
Cocklebur ¹	6"	1 pint (maximum) of oil concentrate plus 1-2 quarts (maximum) of UAN ⁷	
Dayflower	4"		
Devilsclaw ²	3"		
Galinsoga ²	2"		
Jimsonweed	6"		
Ladysthumb	6"		
Lambsquarters, Common ²	2"		
Mallow, Venice	4"		
Morningglories ³	2"		
Mustard, Wild	4"		
Nightshade, Black	<2"	1 pint (maximum) of oil concentrate plus 1-2 quarts (maximum) of UAN ⁷	
Nutsedge, Yellow ²	6-8"		
Pigweed, Smooth	2"		
Redroot	2"		
Poinsettia, Wild	4"		
Purslane, Common	1"		
Ragweed, Common	3"		
Giant	6"		
Redweed	6"		
Shepherdspurse ²	4"		
Sida, Prickly (Teaweed)	3"	1 pint (maximum) of oil concentrate plus 1-2 quarts (maximum) of UAN ⁷	
Smartweed, Pennsylvania	6"		
Starbur, Bristly	2"		
Sunflower, Wild ²	5"		
Velvetleaf ⁶	5"		
Waterhemp, Common	2"		
Tall	2"		
Grasses Controlled			
Annual Ryegrass	4"		1 pint (maximum) of oil concentrate plus 1-2 quarts (maximum) of UAN ⁷
Barnyardgrass	4"		
Broadleaf Signalgrass	4"		
Crabgrass, Large	2"		
Smooth	2"		
Foxtail, Giant	6"		
Green	6"		
Yellow	6"		
Goosegrass	4"		
Johnsongrass, Seedling	4"		
Jungle rice	4"	1 pint (maximum) of oil concentrate plus 1-2 quarts (maximum) of UAN ⁷	
Panicum, Browntop	4"		
Fall	4"		
Texas	4"		
Sprangletop, Red	4"		
Shattercane ⁴	4"		
Volunteer Corn ^{5,6}	12"		
Wild Proso Millet	4"		
Witchgrass	4"		
Woolly Cupgrass	4"		

¹ Do not treat earlier than leaf stage shown and do not count cotyledon leaves.

² For regrowth or new germination, a follow-up application of **Basagran**[®] herbicide may be necessary (see label for **Basagran**).

³ For regrowth or new germination, a follow-up application of **Blazer**[®] herbicide may be necessary (see label for **Blazer**).

⁴ Do not treat rosette before seed stalk appears.

⁵ For regrowth or new germination, a follow-up application of **Poast Plus**[®] herbicide may be necessary (see label for **Poast Plus**).

⁶ Use a dual additive combination for weed infestations that include velvetleaf.

⁷ AMS can be substituted at 1-2 pounds per acre.

⁸ Volunteer corn must be non-SR[™] sethoxydim-resistant field corn. **Poast + Galaxy** and **Poast Plus** will not control volunteer SR field corn.

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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Patent pending on Duplex II container. The Prodigy tank and manifold are covered by U.S. Patent 5,465,874 and other pending patent applications.

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