

PM23

264-567

9-15-98

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg.
Number:
264-567

Date of Issuance:
SEP 15 1998
Date of Expiration:
NOV 1 2001

NOTICE OF PESTICIDE:

Registration
 Reregistration

(under FIFRA, as amended)

Term of Issuance:
Conditional

Name of Pesticide Product:
Balance Herbicide

Name and Address of Registrant (include ZIP Code):

Rhone-Poulenc Ag Company
P.O. Box 12014
2 T.W. Alexander Drive
Research Triangle Park, NC 27709

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(C) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Make the following label changes before you release the product for shipment:
 - a. Revise the EPA Registration Number to read, "EPA Registration No. 264-567".
 - b. Delete references to the state of Colorado where it appears in the label. Specifically, delete it from the list of states in the General Information section and from the section for Restrictions and Precautions For Use on Field Corn beneath the rate chart in the Specific Use Directions.

Signature of Approving Official:

Date:

SEP 15 1998

3. Submit the studies identified in Attachment #1 on or before corresponding deadlines identified in Attachment #2. These data requirements must be carried out in accordance with applicable provisions of the Good Laboratory Practices (40 CFR Part 160).

4. Submit the following studies on or before the corresponding deadlines in Attachment #2:

a. Avian Dietary LC_{50} Study (\$71-2) using the terminal metabolite RPA 203328.

b. Avian Reproduction Study [\$71-4(a,b)] using the primary metabolite RPA 202248.

c. Acute Toxicity Study to Shrimp (\$72-3) using the terminal metabolite RPA 203328.

5. This registration is time-limited and will terminate on November 1, 2001 unless renewed by EPA. This registration will permit sale and use only in the states of Arkansas, Indiana, Illinois, Iowa, Kansas, Kentucky, Missouri, Montana, Nebraska, North Dakota, Ohio, Oklahoma, South Dakota, Tennessee, Texas (those counties north of or bisected by I-20), and Wyoming.

6. By September 1, 2000 or four months after receipt of data, whichever is later, EPA will make a determination as to whether the available information supports expansion of the geographical areas in which this product may be used, or warrants the addition or removal of label restrictions or mitigation measures.

7. During the term of this conditional registration, Rhone-Poulenc will not support efforts, in states where use has not been authorized, to obtain emergency exemptions for use of this product under FIFRA Sec. 18 or additional uses to meet special local needs under FIFRA Sec. 24(c). The scope of this provision will be revised to conform to any decisions reached under provision #6 as to the states where use is authorized.

8. Product registrations of other registrants which include use of isoxaflutole will be required to meet the same label restrictions and limitations on support of FIFRA Sec. 18 and FIFRA Sec. 24(c) requests as EPA has imposed under this Notice of Pesticide Registration or as subsequently modified.

9. Prior to the end of a three year period after the initial registration, EPA will make a determination whether to renew or deny the registrations based on the available information. All information EPA is to consider in support of renewal of this registration must be submitted by August, 2001. Data submitted in support of this registration after that date will not be considered "available information" for purposes of a decision on renewal of this registration. If EPA does not make a determination by November 1, 2001, either to extend or deny this registration, EPA's inaction will constitute a denial of application for registration.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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10. Submit one copy of the revised final printed label for the record before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Donald Stubbs, Chief
Herbicide Branch
Registration Division (7505C)

Enclosures

DK:305-7546: HB/PM 23 CONCURRENCES

SYMBOL	7505C							
SURNAME	D. KENNY							
DATE	9/15/98							

EPA and Rhône-Poulenc Agreement for Plant Effects and Water Monitoring Data

General

All protocols for those studies will be submitted by Rhône-Poulenc and reviewed by EPA.

Plant Effects

1. Repeat seedling emergence and vegetative vigor study to be conducted in accordance with current guidance for guideline 123-1 (The EPA is not requiring this study. Although EPA is not requiring this study, the results from this study may be used for risk assessment purposes providing the study is reviewed by the EPA and accepted as core.)

- BALANCE® WDG as test material
- subirrigation
- 4 replications
- sandy loam soil (<2% organic matter)
- above soil plant dry weights, plant height, morphological abnormalities parameters
- low volume application with automated belt sprayer at 10 gallons/A; show calculations for application
- other study design modifications to better manage variability
- evaluate above soil plant weight, above soil plant height, and morphological abnormalities as the relevant parameters. Root weight measurements would not be evaluated per telephone discussion with M. Davy on 08-04-98
- conducted under GLP

2. Field perimeter runoff and littoral zone monitoring

Field perimeter monitoring (terrestrial)

- 4 paired sites (control and treatment) will be evaluated weekly for 30 days
- survey species and population in fall prior to spring application; survey prior to application and after rainfall event
- symptomology
- species richness and abundance
- two of the four sites will have a rainfall simulator to evaluate run-off exposure. Sites will be no-till production system. Consists of three side-by-side plots: one to collect flow rate and water concentrations; one to provide control plants (untreated) and one to observe effects to test plants. Rainfall event will occur 2 days after application and a second event at 10 days after application. Water will be applied at a minimum rate (to be determined dependent upon the site characteristics) Collection of water will be made during any rainfall event (simulated or natural occurrence) within 10 days of application.
- the other two sites will be pre-selected and rainfall monitored. When a notable rainfall event occurs (within 30 days of application), R-P will initiate monitoring of the site immediately and continue weekly monitoring for 30 days. (still to be agreed in the protocol upon with respect to number of monitoring events and what is consider as "notable" rainfall)
- rainfall will be measured through a rain gauge
- conducted under GLP

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EPA and Rhône-Poulenc Agreement for Plant Effects and Water Monitoring Data

Littoral zone monitoring (aquatic) - same conditions as above

- 4 paired sites (control and treatment) will be evaluated weekly for 30 days
- symptomology
- species richness and abundance
- survey species and population in fall prior to spring application; survey prior to application and after rainfall event

3. Simulated pond study

- RPA 202248 will be used as the primary study test material in one pond; . second pond dosed above the plant(s) with 1% Balance[®] as a worst-case drift exposure to an aquatic area; one of the dose level will encompass EPA's predicted PRZM-EXAMS concentration for parent isoxaflutole and RPA 202248
- square pools (2.3 X 2.3 X 0.5M); volume 1,500L
- 4 dose levels
- 10 aquatic plant species
- will develop some mechanism to evaluate rice in 1999 since it is not possible to add rice to the ongoing simulated pond study
- conducted under GLP

4. Small plot irrigation study with RPA 202248

- 6 dose levels in spiked water which encompasses EPA's predicted PRZM-EXAMS concentration: sprayed from ground equipment
- crops - lettuce, radish, turnip, sugarbeet, tomatoes, cabbage
- symptomology
- yield data for lettuce, radish and turnip
- will conduct second study in 1999 with cotton, canola, oats, sunflower taken to yield: control and 4 replications; timing of application will be proposed in the protocol and will be agreed upon by EPA
- conducted under GLP

5. Irrigation study on soybean

- 2 dose levels in spiked water which encompasses EPA's predicted PRZM-EXAMS concentration
- Volume of water equivalent to 1 inch of irrigation water per acre
- symptomology
- yield data
- conducted under GLP

6. Terrestrial plant field study to address ground spray drift

- Control and 4 replications
- Crops - soybean, oat, canola, sunflower and rice
- Species will be either on separate or same plot, if appropriate
- Dose will be 1% of the maximum application rate (0.14 lb. ai/A) of BALANCE[®] by ground equipment
- Application timing - BALANCE[®] applied at the normal application timing and site to be agreed upon by EPA
- Measure yields
- Standard agricultural controls for weeds, insect and fungicides permitted for those specific crops
- conducted under GLP

EPA and Rhône-Poulenc Agreement for Plant Effects and Water Monitoring Data

Water Monitoring

1. Analysis and Methodology

- Analyze for parent isoxaflutole, RPA-202248 and RPA 203328.
- Work will be done to refine the soil methodology to achieve a lower detection limit. Current soil LOQ is at 5 ppb for each of the following analytes: isoxaflutole, RPA-202248, and RPA-203328. Sample analysis will be conducted under GLP, QA/QC.
- Confirm application of highest labeled use rate by quantifying residues on filter paper discs which are sprayed during soil application.
- Soil samples taken from 0 to 90 cm in the first 30 days of each study will not be composited.
- Soil samples taken deeper than 90 cm and samples taken after 30 days will be composited.
- Tracers will be used at all sites.
- Work to continue to refine water method to 22 ppt in water of total residues or 5 ppt for each parent and degradate. If further refinement is not possible, all detects will considered above the limit of detection.

2. Ground Water Prospective Studies

- A total of 4 prospective studies; 2 initiated in 1998, 2 in 1999.
- During 1998, initiate two prospective ground water studies on vulnerable, but not off labeled soils - contain no tile drains.
- Conducted in high corn production areas of the Midwest in fields
- Rhône-Poulenc will provide proposed site (state/soil type) and EPA will promptly review all study documentation
- In 1999, initiate two additional studies on typical corn or benchmark soils. These studies will be conducted at locations which contain tile drains (See details below.).
- Each consist of 2-5 acres with shallow ground water (<25 feet).
- Study length will be 2-3 years. Termination will be based on data evaluation.

Characterization and Site Sampling

- Characterize each site with 8 soil borings.
- A minimum of 8 lysimeter clusters each with 3 sampling devices at 3 - 12 foot depths depending on site characteristics.
- A minimum of 8 well clusters each with 3 wells. One foot well screens will be used at the water table and 5 foot depths. A five foot screen will be used in the 10-15 ft well.
- Will be irrigated to insure that total irrigation plus rainfall is equal to or greater than 120% of the 30 year monthly rainfall average. Irrigation water will be appropriately characterized.
- An on site weather station will be installed at each site.
- In the initial year of the study, corn will be planted at each site. In subsequent years during the course of the study, other crops may be grown. Application will only be made the first year at each site.
- During the first 30 days of the study, soil samples will be taken in ≥ 15 cm increments. (still needs to be agreed upon by EPA)
- Sampling will occur at 0, 1, 2 and 4 weeks. On day 0, a single soil increment will be collected. Multiple increments will be collected on other sample dates. (Still needs to be agreed upon by EPA)

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EPA and Rhône-Poulenc Agreement for Plant Effects and Water Monitoring Data

3. Tile Drain Studies

Prospective studies

- Will be located in the Midwest or Plains States (high corn production area).
- Initiated in August 1999
- Will last for one growing season.
- Contain a number of ground water wells at least 4 clusters of 3 wells at each site, but no lysimeters.
- Although EPA does not require soil sampling from these sites, will collect composited soil samples. The soil sampling design will be according to Rhone Poulenc's choice.
- Will be irrigated to achieve 120% of the 30 year monthly average rainfall (irrigation plus rainfall \geq 120%). In addition, the amount of water within 7 days of application will be 1 inch with at least 1/2 inch occurring on one day (to be provided by irrigation if necessary)
- Water flow from the tile drain will be continuously monitored.
- Will collect periodic water samples from one tile drain outlet, one drainage ditch and any adjacent river or stream fed by drainage ditch from these fields (1 sample/day/drain, ditch and river for each of the 2 sites).

Monitoring (irrigation water)

- Will monitor isoxaflutole residues in tile drain water and drainage ditches at 5 Midwest tile drain sites for one growing season, beginning in spring of 1999.
- These sites will not be irrigated.
- There will be no wells, lysimeters or soil sampling at these sites.
- Water flow from the tile drain will be monitored.
- Will collect periodic water samples from one tile drain outlet, one drainage ditch and any adjacent river or stream fed by drainage ditch from these fields (1 sample/day/drain, ditch and river for each of the 5 sites).

ATTACHMENT #2

Study	Expected Final Report Date
Environmental fate	
Two ground water prospective studies without tile drains	1-year interim report August 2000
Two ground water prospective studies with tile drains	1-year interim report August 2001
Tile drain monitoring (5 sites)	December 2000
Plant Effects	
Seedling emergence and vegetative vigor study to current guidance with BALANCE®	April 1999
Field perimeter and littoral zone monitoring with water concentration measurements	December 1999
Simulated pond study with RPA 202248 and BALANCE®	April 1999
Small plot irrigation study with RPA 202248 lettuce, radish, turnip, sugarbeet, tomato, cabbage	April 1999
Small plot irrigation study with RPA 202248 - cotton, canola, oats, sunflower	April 2000
Irrigation study on soybeans with RPA 202248	April 1999
Terrestrial plant field study to address ground spray drift with BALANCE®	April 2000
Wildlife & Aquatic Organisms	
Avian reproduction with RPA 202248	December 1999
Quail dietary LC50 with RPA 203328	December 1998
Mysid shrimp toxicity with RPA 203328	December 1998
Mammalian toxicity	
Developmental neurotoxicity study with isoxaflutole (in reserve)	June 2000
Residue chemistry	
Field rotational crop study	October 1999

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RESTRICTED USE PESTICIDE

May injure (phytotoxic) susceptible non-target plants. For retail sale to and use only by certified applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification. Commercial and certified applicators must ensure that all persons involved in these activities are informed of the precautionary statements.

BALANCE® WDG Herbicide

For weed control in field corn.

ACTIVE INGREDIENT:

Isoxaflutole [5-cyclopropyl-4-(2-methylsulfonyl-4-trifluoromethylbenzoyl) isoxazole]..... 75.0%

INERT INGREDIENTS:..... 25.0%

E.P.A. Reg. No. 264-567

E.P.A. Est. No.

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

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

For MEDICAL and TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577
For PRODUCT USE Information Call 1-888-4RP-AGRO (1-888-477-2476)

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person. Get medical attention.

IF ON SKIN: Wash skin with plenty of soap and water. Get medical attention.

IF IN EYES: Flush eyes with plenty of water. Call a physician if irritation persists.

NOTE TO PHYSICIAN: No specific antidote is available. All treatments should be based on observed signs and symptoms of distress in the patient. Overexposure to materials other than this product may have occurred.

PRECAUTIONARY STATEMENTS

CAUTION

HAZARD TO HUMANS AND DOMESTIC ANIMALS

Causes moderate eye irritation. Harmful if absorbed through the skin. Avoid contact with skin, eyes or clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear: Long-sleeved shirt and long pants, waterproof gloves, shoes plus socks and protective eye wear. When mixing/loading or cleaning equipment, wear a chemical resistant apron in addition to the other required PPE.

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 CONTROL 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 Personal Protective Equipment 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

Drift or runoff may adversely affect non-target plants. Drift and runoff may be hazardous to aquatic organism in neighboring areas. Do not apply directly to water, 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 or rinsate.

Do not apply when weather conditions favor drift from treated areas. Do not use the same spray equipment for other purposes unless thoroughly cleaned. Do not contaminate water used for irrigation or domestic purposes.

ACCEPTED
with COMMENTS
In EPA Letter Dated
SEP 15 1998

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
264-567

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This chemical has properties and characteristic associated with chemicals detected in ground water. Thus, use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

Isoxaflutole residues can contaminate surface water through spray drift. Under some conditions, isoxaflutole residues may also have a high potential for runoff into surface water (primarily via dissolution in runoff water), for several weeks after application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas over-laying extremely shallow ground water, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips and areas over-laying tile drainage systems that drain to surface water.

In fields having sands, loamy sands and sandy loam soils, special care should be taken not to over-irrigate since substantial over-irrigation promotes the leaching of chemicals.

This pesticide is toxic to some plants at very low concentrations. Non-target plants may be adversely affected if the pesticide is allowed to drift from areas of application. Exposure to isoxaflutole residues may injure or kill susceptible plants. To prevent damage to crops and other desirable plants, read and follow all directions and precautions on this label before using.

This product may not be mixed or loaded within 50 feet of any wells (including abandoned wells and drainage wells), sink holes, perennial or intermittent streams and rivers, and natural or impounded lakes and reservoirs. 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.

Operations that involve mixing, loading, rinsing or washing of this product into or from pesticide handling or application equipment or containers within 50 feet of any well are prohibited unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or washwater and rainwater that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self-contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to exclude completely precipitation from contact of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above specific minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading site. States may have in effect additional requirements regarding wellhead setbacks and operational containment.

Product must be used in a manner which will prevent back siphoning in wells, spills or improper disposal of excess pesticide, spray mixtures or rinsates

DIRECTIONS FOR USE

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

Read entire label before using this label.

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 same area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticides.

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 intervals. 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 over long-sleeved shirt and long pants, waterproof gloves, shoes plus socks and protective eye wear.

STORAGE AND DISPOSAL

STORAGE

Do not contaminate water, food or feed by storage or disposal. Store in a cool, dry secured storage area. Do not store this product under wet conditions.

PESTICIDE DISPOSAL

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL

Triple rinse or equivalent. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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GENERAL INFORMATION

BALANCE® WDG Herbicide is formulated as a water dispersible granule of isoxaflutole at a concentration of 75% active ingredient.

BALANCE® WDG is a selective herbicide for control of important broadleaf and grass weeds infesting field corn when used as a preplant (surface-applied or incorporated) or preemergence herbicide.

BALANCE® WDG is effective in controlling triazine or ALS resistant populations of weed species which are listed in the "Weed Species Control" tables below on this label.

Seed corn inbreds vary in their response to BALANCE® WDG Herbicide. Consult your seed company for advice before using BALANCE® on seed corn inbreds.

Do not apply this product through any type of irrigation system.

Do not apply this product using aerial application equipment.

Do not use flood irrigation to apply or incorporate this product.

For use in the states of: Arkansas, Colorado, Illinois, Indiana, Iowa, Kansas, Kentucky, Missouri, Montana, Nebraska, North Dakota, Ohio, Oklahoma, South Dakota, Tennessee, Texas (north of I-20), and Wyoming.

MIXING INSTRUCTIONS

Fill spray tank with 1/4 to 1/2 of the required volume of water prior to the addition of BALANCE® WDG Herbicide. Add BALANCE® WDG slowly to the tank and agitate by hydraulic or mechanical means. If BALANCE® WDG is applied in tank mixture with other pesticides, add BALANCE® WDG to the spray tank water first and ensure that it is thoroughly dispersed before adding other pesticides. Continue to fill the tank with water to the desired volume while agitating. Continue agitation when applying to ensure a uniform spray mixture.

Application with water or liquid fertilizer as a diluent carrier: Nitrogen solution or complete liquid fertilizer may replace all or part of the water as a carrier for preemergence or preplant surface ground application. Check the compatibility of this product with liquid fertilizer and/or nitrogen solution as described below. If BALANCE® WDG is applied with a nitrogen solution or other liquid fertilizer, measure the required amount of BALANCE® WDG with a small amount volume of water and ensure that it is thoroughly dispersed. Then add this mixture to the spray tank before adding fertilizer solution. Continue to fill the tank with water to the desired volume while agitating. Continue agitation when applying to ensure a uniform spray mixture.

Sprayer Cleanup: To avoid injury or exposure to non-target crops, thoroughly clean all mixing and spray equipment on approved rinse pad or on the field site where an approved crop is to be grown. Do this immediately after application and prior to use on crops other than those registered for use on this label.

TANK MIXTURES

BALANCE® WDG Herbicide can be applied in tank mixture with many other pesticides registered for use on approved crops. Refer to specific crop section for rate recommendations and other restrictions.

COMPATIBILITY

If BALANCE® WDG Herbicide is to be tank mixed with liquid fertilizers or other pesticides, compatibility should be tested prior to mixing. To test for compatibility, use a small container and mix a small amount (0.5 to 1 qt) of spray, combining all ingredients in the same ratio as the anticipated use. If any indications of physical incompatibility develop, do not use this mixture for spraying. Indications of incompatibility usually will appear within 5-15 minutes after mixing. Read and follow the label of each tank-mix product used for precautionary statements, directions for use, geographic and other restrictions.

APPLICATION PROCEDURES

APPLICATION TIMING

BALANCE® WDG may be used in either conventional, conservation tillage, or no-till crop management systems and may be applied either preplant, preplant incorporated or preemergence for use in field corn production. Do not apply after corn emerges or crop injury may occur.

Preplant Surface-Applied: BALANCE® WDG alone and certain BALANCE® WDG tank mixtures may be applied up to 14 days before planting field corn. If weeds are present at the time of treatment, a tank mixture of BALANCE® WDG with a burndown herbicide (e.g., Gramoxone® Extra, Roundup® Ultra or WEEDONE® 638) or with crop oil concentrate or methylated seed oil is recommended for assistance in controlling emerged weeds. Observe directions for use, precautions, and restrictions on the label of the burndown herbicide. To the extent possible, do not move treated soil out of the row or move untreated soil to the surface during planting, or weed control will be reduced.

Preplant Incorporated: BALANCE® WDG alone and certain BALANCE® WDG tank mixtures may be applied up to 14 days before planting field corn. Apply to the soil and incorporate in the top two inches of soil before planting using a finishing disc harrow, field cultivator with rolling baskets or similar implement capable of providing uniform two inch incorporation.

BALANCE® WDG treatments are most effective in controlling weeds when adequate rainfall is received within 14 days after application. If cultivation is necessary because of soil crusting, soil compaction or weed germination before rain occurs, use shallow tillage such as rotary hoe to lightly incorporate BALANCE® WDG and make certain corn seeds are below the tilled area. If treated soil

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is moved during tillage practices in such a way that the herbicide barrier is no longer in tact. weeds may emerge in those areas from which treated soil has been moved.

Preemergence: Apply BALANCE® WDG during planting (behind the planter after furrow closure) or after planting, but before weeds or crop emerge. Failure to thoroughly close and firm the seed furrow may allow herbicide to directly contact the seed which can cause injury.

GROUND APPLICATION

Apply BALANCE® WDG alone or in tank mixtures by ground equipment in a minimum of 10 gallons of spray mixture per acre. Do not apply with hollow cone nozzles or with other application equipment which does not provide uniform coverage. Use sprayers that provide accurate and uniform application.

Do not exceed the maximum labeled rate for any soil type.

With the exception of minimum or no-tillage systems, plant into a seed bed that is firm and free of clods and trash. Use only where adequate tillage is practiced to provide good soil coverage of the corn seed. **PLANT CORN AT LEAST 1 1/2 INCHES DEEP. CORN SEED MUST BE COMPLETELY COVERED WITH SOIL AND FURROW FIRMED.**

In minimum or no-tillage systems, **PLANT CORN AT LEAST 1 1/2 INCHES DEEP. CORN SEED MUST BE COMPLETELY COVERED WITH SOIL AND SOIL FIRMED.** The use of no-till planters under conditions which do not allow good soil coverage of the corn seed can result in reduced crop stand or injury if BALANCE® WDG contacts the germinating corn seed. Check equipment to ensure good seed coverage.

SPECIFIC USE DIRECTIONS
BALANCE® WDG HERBICIDE APPLIED ALONE

APPLICATION TIMING	AMOUNT OF BALANCE® WDG PER ACRE			
	Medium and Fine Soils including Loam, Silt loam, Silt, Silty clay loam, Silty clay, Clay, Clay loam, Sandy clay loams and Sandy clays		Coarse Soils including Sands, Sandy loams and Loamy sands	
	Conventional tillage	No-till	Conventional tillage	No-till
PREPLANT (SURFACE-APPLIED or INCORPORATED) 8 to 14 days prior to planting	2.5 to 3.0 ounces	3 ounces	1.5 to 2.0 ounces*	1.5 to 2.0 ounces*
PREPLANT (SURFACE-APPLIED or INCORPORATED) 0 to 7 days prior to planting	2.0 to 2.5 ounces	2.0 to 2.5 ounces	1.0 to 1.25 ounces*	1.0 to 1.25 ounces*
PREEMERGENCE	1.5 to 2.5 ounces	1.5 to 2.5 ounces	1.0 to 1.25 ounces*	1.0 to 1.25 ounces*

* If grass pressure is moderate to severe, tank mixing with a pre-emergence grass herbicide is recommended.

RESTRICTIONS AND PRECAUTIONS FOR USE ON FIELD CORN

Do not apply more than 3 ounces of BALANCE® Herbicide per acre in one season.

Do not rotate to other crops within 6 months after application.

In the States of CO, KS, KY, MO, and TN, if the water table (i.e. level of saturation) is less than 25 feet below the ground surface, do not use on loamy sand or sand surface soil and subsoils with an average organic matter (in the upper 12 inches) of less than 2% by weight.

In the States of IA, IL, IN, MT, ND, NE, OH, SD, and WY, if the water table (i.e. level of saturation) is less than 25 feet below the ground surface, do not use on sandy loam, loamy sand or sand surface soils and subsoils with an average organic matter (in the upper 12 inches) of less than 2% by weight.

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TANK MIX COMBINATIONS

Tank mix combinations may be used in either conventional, conservation tillage, or no-till cropping systems and be applied at the same timings as BALANCE® WDG Herbicide unless otherwise specified in the tank mix label. Multiple tank mixtures are allowed unless otherwise specified by the respective product labels. Check all tank mix product labels for proper rates and compatibilities for multiple tank mixes.

TANK MIX USE DIRECTIONS

APPLICATION TIMING	AMOUNT OF BALANCE® WDG PER ACRE			
PREPLANT (SURFACE-APPLIED or INCORPORATED) 8 to 14 days prior to planting	Medium and Fine Soils including Loam, Silt loam, Silt, Silty clay loam, Silty clay, Clay, Clay loam, Sandy clay loams and Sandy clays		Coarse Soils including Sands, Sandy loams and Loamy sands	
	Conventional tillage	No-till	Conventional tillage	No-till
	2.5 to 3.0 ounces	3 ounces	1.5 to 2.0 ounces*	1.5 to 2.0 ounces*
PREPLANT (SURFACE-APPLIED or INCORPORATED) 0 to 7 days prior to planting	1.5 to 2.0 ounces	1.5 to 2.0 ounces	1.0 to 1.25 ounces*	1.0 to 1.25 ounces*
PREEMERGENCE	1.5 to 2.0 ounces	1.5 to 2.0 ounces	1.0 to 1.25 ounces*	1.0 to 1.25 ounces*

THIS PRODUCT MAY BE TANK-MIXED WITH THESE HERBICIDES FOR CONTROL OF CERTAIN BROADLEAF AND GRASS WEEDS IN CORN:

TANK MIX PARTNERS NOT CONTAINING ATRAZINE

Apply the following tank mix partners at one half to full rate based on the product's allowable use rate for specific soil types and/or organic matter content. Tank mixes with BALANCE® WDG Herbicide are not limited to the tank mix partners mentioned in this table. Refer and follow the label of each tank mix product used for precautionary statements, directions for use, geographic and other restrictions.

DUAL® / DUAL® II / DUAL® II MAGNUM

FRONTIER®

HARNESS®

LASSO® / MICRO-TECH® / PARTNER®

PROWL® (Preemergence application only)

SURPASS®

TOPNOTCH®

SIMAZINE

TANK MIX PARTNERS CONTAINING ATRAZINE

Apply the following tank mix partners at one half to full rate but not to exceed 1.5 pounds of atrazine active ingredient per acre based on the product's allowable use rate for specific soil types and/or organic matter content. Tank mixes with BALANCE® WDG Herbicide are not limited to the tank mix partners mentioned in this table. Refer and follow the label of each tank mix product used for precautionary statements, directions for use, geographic and other restrictions.

Atrazine 4L

HARNESS® Xtra

Atrazine 90 WG

SURPASS® 100

BICEP® II / BICEP® II Lite / BICEP® II Magnum / BICEP® II Magnum Lite

FULTIME®

GUARDSMAN®

17/04/16

BROADLEAF WEEDS
CONTROLLED BY BALANCE® WDG ALONE AND IN TANK MIXTURES FOR FIELD CORN

Tank mixes with BALANCE® WDG Herbicide are not limited to the tank mix partners mentioned in this table. Refer and follow the label of each tank mix product used for precautionary statements, directions for use, geographic and other restrictions.

Broadleaf Weeds (C = Weeds Controlled)	BALANCE® Alone	BALANCE® plus Atrazine	BALANCE® plus BICEP II/ BICEP II Lite/ BICEP II Magnum/ BICEP II Magnum Lite	BALANCE® plus DUAL/ DUAL II/ DUAL II Magnum	BALANCE® plus FRONTIER	BALANCE® plus HARNESS/ SURPASS/ TOPNOTCH	BALANCE® plus HARNESS Xtra/ SURPASS 100/ FULTIME	BALANCE® plus MICRO- TECH/ PARTNER/ LASSO	BALANCE® plus GUARDSMAN
Amaranth, Palmer	C	C	C	C	C	C	C	C	C
Buckwheat, wild		C	C				C		C
Buffalobur	C	C	C	C	C	C	C	C	C
Burcucumber	C	C	C	C	C	C	C	C	C
Carpetweed				C		C	C	C	C
Chamomile spp.	C	C	C	C	C	C	C	C	C
Chickweed, common	C	C	C	C	C	C	C	C	C
Cocklebur*		C	C				C		C
Dandelion (seedling)	C	C	C	C	C	C	C	C	C
Groundcherry (seedling)		C	C				C		C
Galinsoga	C	C	C	C	C	C	C	C	C
Jimsonweed	C	C	C	C	C	C	C	C	C
Kochia	C	C	C	C	C	C	C	C	C
Lambsquarters, common	C	C	C	C	C	C	C	C	C
Mallow, Venice	C	C	C	C	C	C	C	C	C
Marestail	C	C	C	C	C	C	C	C	C
Morningglory, annual*		C	C				C		C
Wild mustard	C	C	C	C	C	C	C	C	C
Nightshade, black	C	C	C	C	C	C	C	C	C
Nightshade, eastern black	C	C	C	C	C	C	C	C	C
Nightshade, hairy						C	C	C	C
Pennycress, field	C	C	C	C	C	C	C	C	C
Plantain, broadleaf	C	C	C	C	C	C	C	C	C
Pigweed, prostrate	C	C	C	C	C	C	C	C	C
Pigweed, redroot	C	C	C	C	C	C	C	C	C
Pigweed, smooth	C	C	C	C	C	C	C	C	C
Purslane, common	C	C	C	C	C	C	C	C	C
Radish, wild	C	C	C	C	C	C	C	C	C
Ragweed, common	C	C	C	C	C	C		C	C
Ragweed, giant*	C	C	C	C	C	C	C	C	C
Shepherds-purse	C	C	C	C	C	C	C	C	C
Smartweed, Pennsylvania	C	C	C	C	C	C	C	C	C
Spurge, toothed	C	C	C	C	C	C	C	C	C
Sunflower, wild*		C	C				C		C
Velvetleaf	C	C	C	C	C	C	C	C	C
Waterhemp, common	C	C	C	C	C	C	C	C	C
Waterhemp, tall	C	C	C	C	C	C	C	C	C

* These weeds may require a postemergence application of BUCTRIL® or other appropriate postemergence herbicides for control of late season escapes.

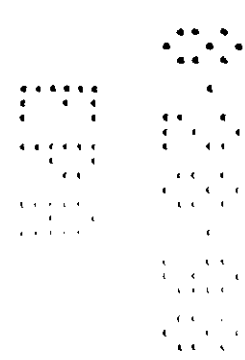
GRASS WEEDS

CONTROLLED BY BALANCE® WDG ALONE AND IN TANK MIXTURES FOR FIELD CORN

Tank mixes with BALANCE® WDG Herbicide are not limited to the tank mix partners mentioned in this table. Refer and follow the label of each tank mix product used for precautionary statements, directions for use, geographic and other restrictions.

Grassy Weeds (C = Weeds Controlled)	BALANCE® Alone	BALANCE® plus Atrazine	BALANCE® plus BICEP II/ BICEP II Lite/ BICEP II Magnum/ BICEP II Magnum Lite	BALANCE® plus DUAL/ DUAL II/ DUAL II Magnum	BALANCE® plus FRONTIER	BALANCE® plus HARNESS/ SURPASS/ TOPNOTCH	BALANCE® plus HARNESS Xtra/ SURPASS 100/ FULTIME	BALANCE® plus MICRO- TECH/ PARTNER/ LASSO	BALANCE® plus GUARDSMAN
Barnyardgrass	C	C	C	C	C	C	C	C	C
Crabgrass, large	C	C	C	C	C	C	C	C	C
Crabgrass smooth	C	C	C	C	C	C	C	C	C
Cupgrass, southwestern			C	C	C				C
Cupgrass, woolly*	C	C	C	C	C	C	C	C	C
Foxtail, bristly	C	C	C	C	C	C	C	C	C
Foxtail, giant	C	C	C	C	C	C	C	C	C
Foxtail, green	C	C	C	C	C	C	C	C	C
Foxtail, robust purple	C	C	C	C	C	C	C	C	C
Foxtail, robust white	C	C	C	C	C	C	C	C	C
Foxtail, yellow*		C	C	C	C	C	C	C	C
Goosegrass	C	C	C	C	C	C	C	C	C
Johnsongrass, seedling	C	C	C	C	C	C	C	C	C
Oats, wild		C					C		
Panicum, fall	C	C	C	C	C	C	C	C	C
Proso millet, wild*	C	C	C	C	C	C	C	C	C
Rice, red				C		C		C	C
Sanbur, field*	C	C	C	C	C	C	C	C	C
Signalgrass, broadleaf	C	C	C	C	C	C	C	C	C
Witchgrass			C	C	C	C	C	C	C

* These weeds may require the addition of a pre-emerge grass herbicide tank-mix partner, or an appropriate post-emergence herbicide application for control of late season escapes. BALANCE® Herbicide should be used as part of an integrated control program.



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LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants that this product conforms to the chemical description on the label; that this product is reasonably fit for the purposes set forth in the directions for use when it is used, in accordance with such directions; and that the directions, warnings and other statements on this label are based upon responsible experts' evaluation of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants, and of residues on food crops and upon reports of field experience. Tests have not been made on all varieties or in all states or under all conditions. THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE, ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

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BALANCE® WDG Herbicide (PENDING) Resubmitted 8/27/98.

