

## **CORN - PREPLANT SURFACE OR INCORPORATED (0-7 DAYS), PREEMERGENCE, EARLY POSTEMERGENCE - COARSE - 1.5% OR LESS ORGANIC MATTER**

### General Information

#### PRODUCT INFORMATION

##### BALANCE FLEXX Herbicide:

- is a selective herbicide for control of important broadleaf and grass weeds infesting field corn, seed corn and corn grown for silage.
- is formulated as a suspension concentrate (SC) containing 2 pounds isoxaflutole active ingredient per gallon.
- contains the active ingredient isoxaflutole which is an HPPD inhibitor mode of action that controls weeds by inhibiting enzymes that are essential to the protection of chlorophyll in plant leaves.
- is effective in controlling glyphosate-, triazine-, PPO-, ALS- and auxinherbicide resistant populations of weed species.

#### APPLICATION INSTRUCTIONS

##### BALANCE FLEXX Herbicide:

- may be used in either conventional, conservation tillage, or no-till crop management systems.
- may be applied either preplant [ surface applied or incorporated (less than 2" deep)], preemergence, or early postemergence.
- will provide it's most effective weed control when applied and subsequently moved into the soil by rainfall, sprinkler irrigation or mechanical tillage prior to weed emergence.
- may be tankmixed or applied in sequential applications with other herbicides to control additional weeds.
- may be applied using either water carrier or sprayable grade fluid fertilizer as a liquid carrier.
- may be applied by ground application only. Aerial application is not permitted.
- may be applied as either a broadcast spray or as a band application.

Refer to the SPECIFIC USE DIRECTIONS section of this label for additional application information specific from each registered use of BALANCE FLEXX Herbicide.

### Ground Application (Banding)

Banding herbicide application equipment must be carefully calibrated to prevent crop exposure to concentrations of BALANCE FLEXX Herbicide that exceed the labeled rate for the soil type. It is critical to insure that the calibrated band width equates to actual band width realized in field applications. Bands actually delivered at a width narrower than targeted will concentrate the product and increase the risk for crop response.

Even flat spray tip nozzles and a band width of no less than 12" must be used. Apply a broadcast equivalent rate and volume per acre.

### Ground Application (Broadcast)

Apply BALANCE FLEXX Herbicide either alone or in tank mixtures in a minimum of 10 gallons of spray mixture per acre. Uniform, thorough spray coverage is important to achieve consistent weed control. Keep the spray boom at the lowest possible spray height above the target surface. Refer to nozzle manufacturer's recommendations for proper nozzle, pressure setting, and sprayer speed for optimum product performance and minimal spray drift. Uneven application, sprayers not properly calibrated, or improper incorporation may decrease the level of weed control and/or increase the level of adverse crop response. Maintain constant ground speed while applying product to ensure proper distribution. Do not overlap spray patterns beyond equipment manufacturers recommendations as excessive rates may result in adverse crop responses and potential stand loss. Maintain adequate agitation at all times, including momentary stops.

### USE RESTRICTIONS

- Use on coarse textured soils with a shallow water table
- In the states of AL, AR, CO, DE, GA, KS, KY, LA, MD, MO, MS, NC, NM, OK, SC, TN, TX, VA, and WV, if the water table (i.e., level of saturation) is less than 25 feet below the ground surface, do not use on soils meeting all three of the following criteria. If the water table depth is unknown, do not use on any of the soils meeting all three of the following criteria. If less than three criteria are met or the water table is greater than 25 feet below the ground surface, there is no restriction against application:
  - The surface soil texture is loamy sand or sand.
  - The subsoil texture is loamy sand or sand.
  - The average organic matter (in the upper 12 inches) is less than 2% by weight.
- In the states of IA, IL, IN, MI, MT, ND, NE, NJ, OH, PA, 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

soils meeting all three of the following criteria. If the water table depth is unknown, do not use on any of the soils meeting all three of the following criteria. If less than three criteria are met or the water table is greater than 25 feet below the ground surface, there is no restriction against application:

- The surface soil texture is sandy loam, loamy sand or sand.
- The subsoil texture is loamy sand or sand.
- The average organic matter (in the upper 12 inches) is less than 2% by weight.
- Do not apply more than 6.0 fluid ounces per acre of BALANCE FLEXX Herbicide per 365-day period or exceed the maximum labeled rate for any given soil type.
- Do not apply this product using aerial application equipment.
- Do not apply this product through any type of irrigation system.
- Do not use flood or furrow irrigation to apply, activate, or incorporate this product.
- Do not irrigate BALANCE FLEXX Herbicide into coarse soils at planting time when soils are saturated.
- Do not allow cover crops in fields treated with BALANCE FLEXX Herbicide to be grazed by livestock or harvested for food.
- Do not apply tank-mixes of BALANCE FLEXX Herbicide with organophosphate or carbamate insecticides to emerged corn. Foliar applications of an organophosphate or carbamate insecticides should not be made within 7 days of an application of BALANCE FLEXX Herbicide or crop injury may result.
- To prevent off-site movement of soil containing this product to non-target areas, do not apply BALANCE FLEXX Herbicide to areas receiving less than 15 inches of average annual precipitation unless supplemented to at least the equivalent of 15 inches of annual precipitation with irrigation water.
- Do not apply solo HPPD inhibitor postemergence herbicides (Laudis, Armezon Impact, Callisto) to corn that has been treated with BALANCE FLEXX Herbicide in the same year.
- Do not use COC, MSO, or a loaded glyphosate formulation with BALANCE FLEXX Herbicide applied to emerged field corn.
- In the state of MN use is only allowed in accordance with the Minnesota Product Bulletin. The Minnesota Product Bulletin, which accompanies the sale and packaging of this product, must be in the possession of the user at the time of pesticide application.
- In the state of WI use is only allowed in accordance with the Wisconsin Product Bulletin. The Wisconsin Product Bulletin, which accompanies the sale and packaging of this product, must be in the possession of the user at the time of pesticide application.

Refer to the specific use directions and restrictions in each specific crop section.

## RESISTANCE MANAGEMENT

BALANCE FLEXX Herbicide is a Group 27 Herbicide, i.e., an HPPD inhibitor. A given weed population may contain or develop resistance to a herbicide after repeated use. Appropriate resistance-management strategies should be followed to mitigate or delay resistance. The following Integrated Weed Management Techniques are effective in reducing problems with herbicide resistant weed biotypes. It is best to use multiple practices to manage or delay resistance as no single strategy is likely to be totally effective.

- Rotate crops. Crop rotation diversifies weed management.
- Rotate herbicide-tolerant traits. Alternate herbicide-tolerant (HT) traits and/or use HT trait stacks for more efficient rotation.
- Use multiple herbicide sites of action. Use tankmix partners and multiple SOAs during both the growing season and from year to year to reduce the selection pressure of a single SOA.
- Know your weeds, know your fields. Closely monitor problematic areas with difficult-to-control weeds or dense weed populations.
- Start with clean fields. Effective tillage or the use of a burndown herbicide program can control emerged weeds prior to planting.
- Stay clean – use residual herbicides. Regardless of tillage system, preemergence or early post-emergence soil-applied residual herbicides should be used when possible.
- Apply herbicides correctly. Ensure proper application, including timing, full use-rates and appropriate spray volumes.
- Control weed escapes. Consider spot herbicide applications, row wicking, cultivation or hand removal of weeds or other techniques to stop weed seed production and improve weed management.
- Zero tolerance – reduce the seed bank. Do not allow surviving weeds to set seed, which will help decrease weed populations from year to year and prevent major weed shifts.
- Clean equipment. Prevent the spread of herbicide-resistant weeds and their seeds. Contact your local extension specialist, certified crop advisory, and /or Bayer CropScience representative for additional resistance management or IPM recommendation. Also for more information on Weed Resistance Management, visit the Herbicide Resistance Action Committee (HRAC) on the web at <http://www.hracglobal.com>.

## RE-SUSPENDING SC PRODUCTS IN SPRAY SOLUTION

Like other suspension concentrates (SCs), BALANCE FLEXX Herbicide will settle if left standing without agitation. If the spray solution is allowed to settle for one hour or more, reagitate the spray solution for a minimum of 10 minutes before application.

## ROTATIONAL CROPS

Rotational crops vary in their crop response to low concentrations of BALANCE FLEXX Herbicide remaining in the soil. The amount of BALANCE FLEXX Herbicide that may be present in the soil depends on soil moisture, soil temp, application rate, elapsed time since application, and other environmental factors. When BALANCE FLEXX Herbicide is used in combination with other products, always follow the most restrictive rotational crop requirements.

### Cover Crops

Use of cover crops as a means of soil improvement, erosion control, weed and/or insect suppression, etc., following harvest of corn in the Fall is increasing. Planting of cover crops in fields treated with BALANCE FLEXX Herbicide is allowed as long as these cover crops are not grazed by livestock nor harvested for food. Cover crops are to be tilled under or chemically controlled with burndown herbicides in the spring. Many cover crops can be planted within 90-120 days after application of BALANCE FLEXX Herbicide. However, all potential cover crops have not been evaluated for tolerance to BALANCE FLEXX Herbicide and significant injury may occur. Prior to seeding a cover crop, complete a successful field/ home bioassay to provide an indication of the level of tolerance to the prior BALANCE FLEXX Herbicide application. Refer to the "Field/Small Scale Bioassay" section. If used in tank mixtures with other herbicides, always follow the most restrictive label.

## Field/Small Scale Bioassay

A field/ small scale bioassay must be completed before rotating to a cover crop other than those specified in the “Rotational Crop Restrictions” section of this label. To conduct an effective field bioassay, grow strips of the crop(s) you intend to grow the following season in a field previously treated with BALANCE FLEXX Herbicide. The test strip should be placed in a controlled area and should include low areas and knolls, and include variations in soil such as type and pH. Crop response to the bioassay will determine if the crop(s) grown in the test strips can be grown safely in the areas previously treated with BALANCE FLEXX Herbicide.

For an effective small scale bioassay, collect uniform samples of all soil types from the BALANCE FLEXX Herbicide- treated field (see example above for types of soil in the sample) and place the soil into a sturdy container. Plant the desired cover crop into the soil, apply water and place the container in a warm, sunny area to allow germination and growth of the crop. Monitor growth of the cover crop over a three to four week period. If the cover crop emerges and grows normally, the risk to establish and grow the cover crop in the BALANCE FLEXX Herbicide-treated field should be tolerable.

## Limitations, Restrictions, and Exceptions

### CORN (Field Corn, Seed Corn and Corn Grown for Silage)

BALANCE FLEXX Herbicide may be used in either conventional, conservation tillage, or no-till crop management systems and may be applied either preplant or preplant incorporated (less than 2” deep), preemergence, or early postemergence. BALANCE FLEXX Herbicide 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 FLEXX Herbicide. Make certain corn seeds are below the tilled area. If treated soil is moved during tillage practices in such a way that the herbicide barrier is no longer intact, weeds may emerge from areas where treated soil has been removed. Do not incorporate with a drag harrow after planting.

- BALANCE FLEXX Herbicide may be applied up to 30 days prior to planting when used in a planned sequential application program such as BALANCE FLEXX Herbicide followed by Liberty 280 Herbicide, DiFlexx Herbicide, or other post applied

herbicides.

- O.M. = Organic Matter by weight

## APPLICATION TIMING

### Preplant Surface-Applied

BALANCE FLEXX Herbicide may be applied up to 21 days before planting corn. BALANCE FLEXX Herbicide may be applied up to 30 days prior to planting when used in a planned sequential application program such as BALANCE FLEXX Herbicide followed by Liberty 280 Herbicide, DiFlexx Herbicide, or other postemergence applied herbicides appropriate for control of the target weeds. Refer to the label of the respective sequential partner for specific use directions. Split applications of BALANCE FLEXX Herbicide can be made. It is recommended that 60 percent of the listed broadcast rate (refer to APPLICATION RATE table) be applied 15 to 30 days prior to planting and the remaining 40 percent applied at planting. Total BALANCE FLEXX Herbicide applied may not exceed the listed rate for a preplant treatment on the predominate soil type in the field. Moving treated soil out of the row or moving untreated soil to the surface during planting may result in reduced weed control.

### Preplant Incorporated

BALANCE FLEXX Herbicide may be applied up to 21 days before planting field corn; up to 30 days prior to planting when used in a planned sequential application program such as BALANCE FLEXX Herbicide followed by Liberty 280 Herbicide, DiFlexx Herbicide, or other postemergence applied herbicides appropriate for control of the target weeds. Refer to all parts of the respective sequential partner label for specific use directions. Apply to the soil and uniformly incorporate in the top two inches of soil before planting using a finishing disc, field cultivator or similar implement capable of providing uniform two inch incorporation. Do not incorporate BALANCE FLEXX Herbicide deeper than 2" or weed control may be reduced.

### Preplant/Preemergence Burndown

When weeds are present at the time of treatment and prior to corn emergence, a tank mixture of BALANCE FLEXX Herbicide with COC or MSO is recommended for burndown of labeled weeds 3" or less in height. When weeds are greater than 3" in height or weeds not controlled by BALANCE FLEXX Herbicide are present, the addition of a burndown herbicide (e.g., DiFlexx Herbicide, Gramoxone/ paraquat,



glyphosate, Liberty 280 SL Herbicide, or 2,4-D) is recommended. If giant ragweed, common cocklebur, henbit, Pennsylvania smartweed, or purple deadnettle are present at the time of application, the addition of atrazine will improve control. Observe directions for use and precautions and restrictions on the label of the burndown herbicide. When mixing with liquid nitrogen fertilizer or certain glyphosate formulations, substitute a nonionic surfactant for crop oil concentrate.

**Preemergence** Apply BALANCE FLEXX Herbicide 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.

#### Early Postemergence

BALANCE FLEXX Herbicide, alone or in tank mixture with atrazine, may be applied to corn from spiking through the 2 leaf-collar growth stage (V2, the first leaf has a rounded tip). BALANCE FLEXX Herbicide may not provide control of emerged weeds larger than a 1 true leaf stage. Tank-mixtures with other herbicides or adjuvants are not recommended for early postemergence applications of BALANCE FLEXX Herbicide as crop response symptoms including bleaching, leave edge necrosis, and stunting may result. Do Not use COC, MSO, or a loaded glyphosate formulation with BALANCE FLEXX Herbicide applied to emerged field corn.

Early postemergence applications of BALANCE FLEXX Herbicide should be made in water as the carrier. Sprayable fluid fertilizer as an herbicide carrier for early postemergence applications in corn can typically cause corn injury up to and including tissue burn (necrosis). Sprayable fluid fertilizer as a carrier is not recommended for use with BALANCE FLEXX Herbicide after crop emergence unless typical fertilizer burn symptoms on the crop are acceptable.

Do Not apply tank-mixes of BALANCE FLEXX Herbicide with organophosphate or carbamate insecticides to emerged corn. Foliar applications of an organophosphate or carbamate insecticides should not be made within 7 days of an application of BALANCE FLEXX Herbicide or crop injury may result.

## PRECAUTIONS FOR USE

- Planting depth: Corn seed should be planted a minimum of 1 1/2 inches deep and must be completely covered with soil and furrow firmed or reduced crop stand or injury may occur.
- Effect of variable soils on use rate: The proper use rate of BALANCE FLEXX Herbicide is affected by several soil factors, including soil texture, organic matter, and soil pH. Soils which contain variations in one or more of these factors in a given area are termed variable soils and may be more likely to incur localized corn injury symptoms from an application of BALANCE FLEXX Herbicide. Characteristics of localized soil variants that are more likely to incur injury are a more coarse soil texture, a lower organic matter and/or a higher pH (alkaline/calcareous soil) than other areas of the same field and include, among others, clay knolls, eroded hill sides, and terracing with scraped exposed subsoil. The user is responsible for selecting the rate of BALANCE FLEXX Herbicide that is appropriate for all soils in the area of application.
- Effect of adverse weather: Following an application of BALANCE FLEXX Herbicide, extended periods of cool/cold, wet conditions (cool/cold daytime/ nighttime temperatures, saturated soil conditions, recurring rainfall events, etc.) during corn seed germination and/or early crop development period may result in temporary crop injury. Injury symptoms may appear as leaf tissue bleaching (whitening) and/or crop stunting. Corn plants usually recover from this injury without affecting yield.
- Corn hybrids and certain male pollinators: Corn hybrids and certain male pollinators within blended corn varieties vary in their response to BALANCE FLEXX Herbicide. Not all hybrids or male pollinators within blended corn varieties have been tested for sensitivity to BALANCE FLEXX Herbicide. You should consult with your seed provider, your local Bayer CropScience representative, and/or other knowledgeable agricultural professionals for advice on hybrids or varieties containing male pollinator lines before applying BALANCE FLEXX Herbicide. If the tolerance of a hybrid or variety containing a male pollinator line is not known, you should apply BALANCE FLEXX Herbicide to a small area to first determine if the hybrid is tolerant prior to spraying large acreages of that hybrid.

## RESTRICTIONS FOR USE

- Do not apply more than 6.0 fluid ounces per acre of BALANCE FLEXX Herbicide per 365-day period or exceed the maximum labeled rate for any given soil type.

- In corn, do not exceed from all sources 0.094 pounds per acre of isoxaflutole per 365-day period.
- In corn, do not exceed from all sources 0.20 pounds per acre of Cyprosulfamide per 365-day period.
- Do not apply tank-mixes of BALANCE FLEXX Herbicide with organophosphate or carbamate insecticides to emerged corn. Foliar applications of an organophosphate or carbamate insecticides should not be made within 7 days of an application of BALANCE FLEXX Herbicide or crop injury may result.
- Harvest of corn forage is permitted at 45 days or more after an early postemergence treatment of BALANCE FLEXX Herbicide.

## Method

[Broadcast/Foliar Ground](#)

[Surface](#)

[Band application](#)

[Soil incorporation](#)

[Broadcast/Foliar Ground](#)

[Surface](#)

[Band application](#)

[Soil incorporation](#)

[Broadcast/Foliar Ground](#)

[Surface](#)

[Band application](#)

[Soil incorporation](#)

[Broadcast/Foliar Ground](#)

[Surface](#)

[Band application](#)

[Soil incorporation](#)

## Rates

[field\\_rates 0](#)

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Restricted Entry Interval

12 hours

## Soils

[Coarse](#)

[Loamy Sand](#)

[Sandy Loam](#)

[Sand](#)

Tillages

[Conventional](#)

[No-Tillage](#)

[Conservation](#)

Timings

[Preemergence \(Crop\)](#)

[Preplant](#)

[Preplant Incorporated](#)

[Early Postemergence](#)